novel-mir-candidate-70

Provisional ID	:	chr12_29505
Score total	:	63.5
Score for star read(s)	:	3.9
Score for read counts	:	52.6
Score for mfe	:	2.3
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	115
Mature read count	:	110
Loop read count	:	0
Star read count	:	5

```
                    Mature                    Star
5'- guuugagaaccugaggaucuuguugaacuagggcaggauccuuucuguccagaagaaaagggaccugcccuaguucaguaggauccuuguguuccucuucucuugucacc  -3'    obs
    guuugagaaccugaggaucuuguugaacuagggcaggauccuuucuguccagaagaaaagggaccugcccuaguucaguaggauccuuguguuccucuucucuugucacc         exp
    ....((((((.((((((((((((((((((((((((((.((((((((.......)))))..)))))))))))))))))))))))))))))))))).))).))).............   reads      mm         sample
    ...................uuguugaacuagggcagA.......................................................................   1          1          seq
    ...................uuguugaacuagggcagga......................................................................   1          0          seq
    ...................uuguugaacuagggcaggaA.....................................................................   3          1          seq
    ...................uuguugaacuagggcaggau.....................................................................   15         0          seq
    ...................Guguugaacuagggcaggau.....................................................................   1          1          seq
    ...................uuguugaacuagggcaggauc....................................................................   25         0          seq
    ...................uuguugaacuagggcaggauU....................................................................   19         1          seq
    ...................uuguugaacuagggcaggauG....................................................................   1          1          seq
    ...................uuguugaacuagggcaggauA....................................................................   7          1          seq
    ...................uuguugGacuagggcaggauc....................................................................   1          1          seq
    ...................uuguugaacuagggcaggaucA...................................................................   5          1          seq
    ...................uuguugaacuagggcaggaucc....................................................................   2          0          seq
    ...................uuguugaacuagggcaggauccu...................................................................   8          0          seq
    ...................uuguugaacuagggcaggauccuu..................................................................   5          0          seq
    ...................uguugaacuagggcaggauU......................................................................   1          1          seq
    ...................uguugaacuagggcaggauc......................................................................   1          0          seq
    ...................uguugaacuagggcaggaucA.....................................................................   1          1          seq
    ...................uguugaacuagggcaggaucc......................................................................   2          0          seq
    ...................uguugaacuagggcaggauccu.....................................................................   1          0          seq
    ...................uguugaacuagggcaggauccuu....................................................................   1          0          seq
    ....................guugaacuagggcaggauccu......................................................................   1          0          seq
    ....................guugaacuagggcaggauccuuuU...................................................................   2          1          seq
    .....................uugaacuagggcaggaucc.......................................................................   1          0          seq
    .....................uugaacuagggcaggauccu......................................................................   2          0          seq
    .....................uugaacuagggcaggauccuuuU...................................................................   1          1          seq
    ......................ugaacuagggcaggauccu......................................................................   2          0          seq
    ..........................................................gaccugcccuaguucaguagga..............................   2          0          seq
    ..........................................................gaccugcccuaguucaguaggU..............................   1          1          seq
    ..........................................................gaccugcccuaguucaguaggaG.............................   2          1          seq
    ...........................................................uucaguaggauccuuguguuA...............................   1          1          seq
```

novel-mir-candidate-54

Provisional ID	:	chr11_25424
Score total	:	84.4
Score for star read(s)	:	3.9
Score for read counts	:	81.7
Score for mfe	:	1.6
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	172
Mature read count	:	144
Loop read count	:	1
Star read count	:	27

```
                    Mature                    Star
5'- ggugcuucgcucccuggcuuugcgcucggagcuuugacuugagaauccauauccuucguucagcacaaaguuucugagcgccuaccacguggagagagcuaagugcuaggug  -3'    obs
    ggugcuucgcucccuggcuuugcgcucggagcuuugacuugagaauccauauccuucguucagcacaaaguuucugagcgccuaccacguggagagagcuaagugcuaggug         exp
    (((((((.(((((((((....((((((((((((((..(((((.............)))))..)))))).))))))))))...)))...))...)))).))))))).....   reads      mm         sample
    ............ccuggcuuugcgcucggagc.......................................................................   1          0          seq
    ..............uggcuuugcgcucggagcuuugacuugag.............................................................   1          0          seq
    ...................uugcgcucggagcuuugacu...................................................................   1          0          seq
    ....................uugcgcucggagcuuugacuug................................................................   2          0          seq
    ....................uugcgcucggagcuuugacuuga...............................................................   3          0          seq
    ....................ugcgcucggagcuuugacu...................................................................   1          0          seq
    ....................ugcgcucgAagcuuugacuug.................................................................   1          1          seq
    ....................ugcgcucggagcuuugacuug.................................................................   10         0          seq
    ....................ugcgcucggagcuuugacuAga................................................................   1          1          seq
    ....................ugcgcucggagcuuugacuuga................................................................   114        0          seq
    ....................ugcgcucggagcuuuAacuuga................................................................   1          1          seq
    ....................ugcgcucggagcuuugaUuuga................................................................   1          1          seq
    ....................ugcgcucggagcuuugacuugU................................................................   1          1          seq
    ....................ugcgcucggagcuuugacAuga................................................................   1          1          seq
    ....................ugcgcucggagcuuugacNuga................................................................   1          1          seq
    ....................ugcgcucggagcuuugacuugaU...............................................................   2          1          seq
    ....................ugcgcucggagcuuugacuugaA...............................................................   3          1          seq
    ........................cucggagcuuugacuugagaauccauauccuucg..................................................   1          0          seq
    ..........................ucggagcuuugacuugagaa.............................................................   1          0          seq
    ..............................................uccauauccuucguucagcac.......................................   1          0          seq
    ...............................................uucagcacaaaguuucugagcgccua.................................   1          0          seq
    ................................................cagcacaaaguuucugagcgccu...................................   1          0          seq
    .................................................agcacaaaguuucugagcgcc....................................   1          0          seq
    .................................................agcacaaaguuucugagcgccA....................................   1          1          seq
    .................................................agcacaaaguuucugagcgccu....................................   18         0          seq
    .................................................agcacaaaguuucugagcgccuac..................................   1          0          seq
    ...................................................cacaaaguuucugagcgcc......................................   1          0          seq
    ....................................................cacaaaguuucugagcgccua...................................   1          0          seq
    .....................................................aAaaaguuucugagcgcc.....................................   1          1          seq
    ......................................................acaaaguuucugagcgccua....................................   1          0          seq
    .......................................................aaaguuucugagcgccua.....................................   1          0          seq
```

novel-mir-candidate-332

Provisional ID	:	chr22_44201
Score total	:	1.8
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	149
Mature read count	:	149
Loop read count	:	0
Star read count	:	0

Mature Star

```
5'- auaaagggucagcuucugaaauggacauuucccugaaggccuguaccuguugauuuuggccuucaggaaaauguccauuuaaaccaagcugcuucuggaauccuuuggauu  -3'   exp
    .(((((((((((((...(((((((((((.((((((((((................)))))))))).))))))))))))).....)))))).........)))))))).....
    ................ugaaauggacauuucccugaaggccu.......................................................................
    ................gaaauggacauuucccugaaggcc........................................................................
    ................gaaauggacauuucccugaaggccu.......................................................................
    .................aaauggacauuucccugaaggc.........................................................................
    .................aaauggacauuucccugaaggcU........................................................................
    .................aauggacauuucccugaaggc..........................................................................
    .................aauggacauuucccugaaggcc.........................................................................
    .................aauggacauuucccugaaggccG........................................................................
    .................aauggacauuucccugaaggccu........................................................................
    .................aauggacauuucccugaaggccA........................................................................
    ...................auggacauuucccugaagAcc.......................................................................
    ...................auggacauuucccugaaggcU.......................................................................
    ...................auggacauuucccugaaggcc.......................................................................
    ...................auggacauuucccugaagNcc.......................................................................
    ...................auggacauuucccuCaaggcc.......................................................................
    ...................auggacauuucccugaaggccG......................................................................
    ...................auggacauuucccugaaggccu......................................................................
    ....................uggacauuucccugaaggcc.......................................................................
    ......................................................uggccuucaggaaaaugucca....................................
```

reads	mm	sample
1	0	seq
2	0	seq
1	0	seq
1	0	seq
1	1	seq
1	0	seq
53	0	seq
1	1	seq
7	0	seq
1	1	seq
1	1	seq
1	1	seq
44	0	seq
1	1	seq
1	1	seq
1	1	seq
31	0	seq
1	0	seq
1	0	seq

novel-mir-candidate-390

Provisional ID	:	chr9_22718
Score total	:	1.5
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.8
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	32
Mature read count	:	32
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- agagccugacuaccaauuggaauaaguuucccuccugacugguucacauguacaggcagcauuagcauuuccugccuguacaugugaacguuccuaugcucuaccccucgaa  -3'   exp
    (((((.............((((.....))))).....((.((((((((((((((((((.(........).))))))))))))))))))).))....)))))..........  reads    mm       sample
    ............................................................Cuuuccugccuguacaugug..........................  1        1        seq
    ............................................................cugccuguacaugugaacA......................  1        1        seq
    ............................................................cugccuguacaugugaacgA.....................  2        1        seq
    ............................................................cugccuguacaugugaacguu....................  15       0        seq
    ............................................................cugccuguacaugugaacgCu....................  4        1        seq
    ............................................................cugccuguacaugugaacguuc...................  2        0        seq
    ............................................................cugccuguacaugugaacNuuc...................  1        1        seq
    ............................................................cugccuguacaugugaacguuU...................  5        1        seq
    ............................................................cugccuguacaugugaacguuA...................  1        1        seq
    ...............................................................ccuguacaugugaacguuccu.................  1        0        seq
```

novel-mir-candidate-263

Provisional ID	:	chr8_21253
Score total	:	2.1
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.4
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	49
Mature read count	:	49
Loop read count	:	0
Star read count	:	0

Mature Star

```
5'- acccuguagcuucugcaaucguaacauuccacaggcugcuagcagcuauagauggcugccuguggcauguuacagauugcagaagcuguggagucuuucaagaaucucuu  -3'   exp
    ..((..(((((((((((((.(((((((.(((((((((.(((((.........))))).)))))))).)))))))).))))))))))))))).))..................
    .................auccguaacauuccacaggcug.....................................................................  1        0        seq
    ................uccguaacauuccacaggcugc.....................................................................  1        0        seq
    ...................ccguaacauuccacaggcug.....................................................................  5        0        seq
    ...................ccguaacauuccacaggcugcu...................................................................  2        0        seq
    ....................cguaacauuccacaggcug.....................................................................  8        0        seq
    ....................cguaacauuccacaggcugA....................................................................  1        1        seq
    ....................cguaacauuccacaggcugc....................................................................  2        0        seq
    ....................cguaacauuccacaggcugcG...................................................................  1        1        seq
    ....................Aguaacauuccacaggcugcu...................................................................  1        1        seq
    ....................cguaacauuccacaggcugcu...................................................................  18       0        seq
    ....................cguaacauuccacaggcugcua..................................................................  4        0        seq
    ....................cguaacauuccacaggcugcuU..................................................................  1        1        seq
    ....................cguaacauuccacaggcugcuagA................................................................  2        1        seq
    ....................cguaacauuccacaggcugcuagc................................................................  1        0        seq
    ....................cguaacauuccacaggcugcuagU................................................................  2        1        seq
```

novel-mir-candidate-32

Provisional ID	:	chrX_45191
Score total	:	146.6
Score for star read(s)	:	3.9
Score for read counts	:	139.3
Score for mfe	:	2.4
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	285
Mature read count	:	261
Loop read count	:	0
Star read count	:	24

```
                                   Star                    Mature
5'- gccuugggacuugaaccugaauucccuuggccugaguuuacagaugaggaguaaguaacccuugggccuuacuccucauuuguaaacucaggccaacaauaccacuuaccu  -3'   obs
    gccuugggacuugaaccugaauucccuuggccugaguuuacagaugaggaguaaguaacccuugggccuuacuccucauuuguaaacucaggccaacaauaccacuuaccu        exp
    .....((((.((.......)).)))))(((((((((((((((((((((((((((...((...)).)))))))))))))))))))))))))).............  reads   mm   sample
    gccuugggacuugaaccugaauucccu.................................................................................  1       0    seq
    ...........................uuggccugaguuuacagaugagg...........................................................  1       0    seq
    ................................ugaguuuacagaugaggag.........................................................  1       0    seq
    ................................ugaguuuacagaugaggagu........................................................  3       0    seq
    ................................ugaguuuacagaugaggagua.......................................................  4       0    seq
    ................................ugaguuuacagaugaggaUuaa......................................................  1       1    seq
    ................................ugaguuuacagaugaggaguaa......................................................  9       0    seq
    ................................ugaguuuacagaugaggaguaG......................................................  1       1    seq
    ................................ugaguuuacagaugaggaguaaA.....................................................  4       1    seq
    ................................ugaguuuacagaugaggaguaaU.....................................................  1       1    seq
    ......................................................................uacuccucauuuguaaacucag...................  1       0    seq
    ......................................................................acuccucauuuguaaacuca....................  2       0    seq
    ......................................................................acuccucauuuguaaacucag...................  25      0    seq
    ......................................................................acCccucauuuguaaacucag...................  1       1    seq
    ......................................................................acuccucauuuguaaacuNagg..................  1       1    seq
    ......................................................................acuccucauuuguaaacucagA..................  17      1    seq
    ......................................................................acuccucauuuguaaacucagg..................  113     0    seq
    ......................................................................acuGcucauuuguaaacucagg..................  2       1    seq
    ......................................................................acuccucauuuguaaacucagU..................  59      1    seq
    ......................................................................acuccucauuuguaaacucaggA.................  21      1    seq
    ......................................................................cuccucauuuguaaacucagA...................  1       1    seq
    ......................................................................cuccucauuuguaaacucagU...................  1       1    seq
    ......................................................................cuccucauuuguaaacucagg...................  3       0    seq
    ......................................................................cuccucauuuguaaacucaggcA.................  1       1    seq
    ......................................................................uccucauuuguaaacucaggc...................  1       0    seq
    ......................................................................uccucauuuguaaacucaggcU..................  1       1    seq
    ......................................................................uccucauuuguaaacucaggcc..................  5       0    seq
    ......................................................................uccucauuuguaaacucaggcA..................  1       1    seq
    ......................................................................uccucauuuguaaacucagAcc..................  1       1    seq
    ......................................................................uccucauuuguaaacucaggcca.................  2       0    seq
    ......................................................................ucauuuguaaacucaggcaaU...............  1       1    seq
    ......................................................................ucauuuguaaacucaggccaaA..............  1       1    seq
```

novel-mir-candidate-404

Provisional ID	:	chr1_1868
Score total	:	1.3
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.6
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	107
Mature read count	:	66
Loop read count	:	0
Star read count	:	41

Mature **Star**

```
aaagcaaauuuacaugaggcugagugcacgugauugaguucaucacucuccacugagaacucuuccaaugugcacuuagacucugucccaguaucaaucccaaauaugggu
.......................................................ucuuccaaugugcacuuagacucuA.........................   1   1   seq
```

Mature **Star**

```
5'- aaagcaaauuuacaugaggcugagugcacgugauugaguucaucacucuccacugagaacucuuccaaugugcacuuagacucugucccaguaucaaucccaaauaugggu  -3'   obs
    aaagcaaauuuacaugaggcugagugcacgugauugaguucaucacucuccacugagaacucuuccaaugugcacuuagacucugucccaguaucaaucccaaauaugggu        exp
    ...........(((.(((.(((((((((((....(((((((.(((........)))))))))).....)))))))))))).)))))).............((((....)))).   reads   mm   sample
    ..................ggcugagugcacgugauugagu.......................................................................   1       0    seq
    ...................cugagugcacgugauugaguuc......................................................................   2       0    seq
    ....................ugagugcacgugauugaguu.......................................................................   7       0    seq
    ....................ugagugcacgugauugaguuc......................................................................   29      0    seq
    ....................ugagugcacgugauugaguuU......................................................................   1       1    seq
    ....................ugagugcacgugauugaguuA......................................................................   2       1    seq
    ....................ugagugcacgugauugaguucau....................................................................   1       0    seq
    .....................gagugcacgugauugaguuc......................................................................   1       0    seq
    ......................agugcacgugauugaguuc......................................................................   5       0    seq
    ......................agugcacgugauugaguuca.....................................................................   1       0    seq
    ......................agugcacgugauugaguucauc...................................................................   9       0    seq
    ......................agugcacgugauugaguuNauc...................................................................   1       1    seq
    ......................agugcacgugauugaguucauca..................................................................   1       0    seq
    ......................agugcacgugauugaguucaucU..................................................................   1       1    seq
    ......................gugcacgugauugaguuca......................................................................   1       0    seq
    ......................gugcacgugauugaguucauc....................................................................   2       0    seq
    ......................gugcacgugauugaguucaucU...................................................................   1       1    seq
    .......................ugcacgugauugaguucauc....................................................................   1       0    seq
    ...................................................acugagaacucuuccaaugugc.....................................   1       0    seq
    ...............................................gaacucuuccaaugugcacu.........................................   8       0    seq
    ...............................................gaacucuuccaaugugcacuu........................................   6       0    seq
    ...............................................gaacucuuccaaugugcacuuU.......................................   1       1    seq
    ...............................................gaacucuuccaaugugcacuua.......................................   1       0    seq
    ..............................................aacucuuccaaugugcacuuaga.......................................   1       0    seq
    ...............................................acucuuccaaugugcacu...........................................   1       0    seq
    ...............................................acucuuccaaugugcacuuaga.......................................   3       0    seq
    ...............................................acucuuccaaugugcacuuagaA......................................   1       1    seq
    ...............................................acucuuccaaugugcacuuagacu.....................................   3       0    seq
    ................................................cucuuccaaugAgcacuuaga.......................................   1       1    seq
    ..............................................cucuuccaaugugcacuuagacu.......................................   2       0    seq
    ...............................................ucuuccaaugugcacuuagacu.......................................   5       0    seq
    ................................................ucuuccaaugugcacuuagacuc......................................   1       0    seq
    ...............................................ucuuccaaugugcacuuagacucu.....................................   6       0    seq
```

novel-mir-candidate-269

Provisional ID	:	chr14_32299
Score total	:	2.1
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.4
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	58
Mature read count	:	45
Loop read count	:	0
Star read count	:	13

Mature **Star**

```
5'- aaucaucaugcccuuuggcuucucuggucuggaagauuccucagucuggaggaggaaucuuucuagacuggaagagcuaaagggacaugaccacuaaugccucuuagcaaug  -3'   obs
    aaucaucaugcccuuuggcuucucuggucuggaagauuccucagucuggaggaggaucuuucuagacuggaagagcuaaagggacaugaccacuaaugccucuuagcaaug        exp
    .....(((((((((((((((.((((((((((((((((((((.........))))))))))))))))))))))).))))))))))))).))))).....(((.......)))...   reads   mm   sample
    ....................uucucuggucuggaagauuccu.......................................................................   1       0    seq
    ....................ucucuggucuggaagauu...........................................................................   1       0    seq
    ....................ucucuggucuggaagauuc..........................................................................   1       0    seq
    ....................ucucuggucuggaagauuccu........................................................................   18      0    seq
    ....................ucucuggucuggaagauuccuc.......................................................................   7       0    seq
    ....................ucucuggucuggaagauuNcuca......................................................................   1       1    seq
    ....................ucucuggucuggaagauuccuca......................................................................   3       0    seq
    ....................ucucuggucuggaagauuccucU......................................................................   1       1    seq
    ....................ucucuggucuggaagauuccucaU.....................................................................   3       1    seq
    ....................ucucuggucuggaagauuccucaAu....................................................................   1       1    seq
    ....................cucuggucuggaagauuccu........................................................................   1       0    seq
    ....................cucuggucuggaagauuccuc.......................................................................   1       0    seq
    ....................ucuggucuggaagauuccu........................................................................   1       0    seq
    ....................ucuggucuggaagauuccuc.......................................................................   1       0    seq
    ....................ucuggucuggaagauuccucU......................................................................   2       1    seq
    ....................ucuggucuggaagauuccucaA.....................................................................   1       1    seq
    ....................ucuggucuggaagauuccucUgu....................................................................   1       1    seq
    ..........................................................ucuucuagacuggaagagc...............................   3       0    seq
    ..........................................................ucuucuagacuggaagagcu..............................   9       0    seq
    ..........................................................ucuucuagacuggaagagcua.............................   1       0    seq
```

novel-mir-candidate-65

Provisional ID	:	chr4_11947
Score total	:	65.8
Score for star read(s)	:	3.9
Score for read counts	:	58.2
Score for mfe	:	2.6
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	126
Mature read count	:	121
Loop read count	:	0
Star read count	:	5

Mature **Star**

```
5'- uggauauccuagagaugaggagauggggagaacucaauccuaaauguauuuaggaauuuaagauugaguucuccccaucuccccaucucuaggauaaauuuaggauuuaug  -3'   obs
    uggauauccuagagaugaggagauggggagaacucaauccuaaauguauuuaggaauuuaagauugaguucuccccaucuccccaucucuaggauaaauuuaggauuuaug        exp
    ....(((((((((((((.(((((((((((((((((((((.(((((..........))))).))))))))))))))))))))).))))))))))))).............   reads   mm   sample
    ....................agauggggagaacucaauc.......................................................................   3       0    seq
    ....................agauggggagaacucaaucc......................................................................   1       0    seq
    ....................agauggggagaacucaaucU......................................................................   1       1    seq
    ....................agauggggagaacucaauccu.....................................................................   91      0    seq
    ....................agauggggagaacucaauccA.....................................................................   1       1    seq
    ....................Ggauggggagaacucaauccu.....................................................................   1       1    seq
    ....................agauggggagaacucaauccuU....................................................................   4       1    seq
    ....................agauggggagaacucaauccua....................................................................   9       0    seq
    ....................agauggggagaacucaauccuaU...................................................................   5       1    seq
    ....................agauggggagaacucaauccuaC...................................................................   1       1    seq
    ....................agauggggagaacucaauccuaa...................................................................   1       0    seq
    ....................agauggggagaacucaauccuaaaA.................................................................   1       1    seq
    .....................gauggggagaacucaauccu.....................................................................   1       0    seq
    .....................gauggggagaacucaauccuaU...................................................................   1       1    seq
    ..........................................................auuCaagauugaguucuc...............................   1       1    seq
    ............................................................uaGgauugaguucuccccauc...........................   1       1    seq
    ..............................................................agauugaguucuccccauc...........................   1       0    seq
    ..............................................................Ggauugaguucuccccaucuc.........................   2       1    seq
    ..............................................................agauugaguucuccccaucucU........................   1       1    seq
    ...............................................................auugaguucuccccaucu...........................   1       0    seq
```

novel-mir-candidate-13

Provisional ID	:	chr16_34944
Score total	:	356.5
Score for star read(s)	:	3.9
Score for read counts	:	357.5
Score for mfe	:	-2
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	713
Mature read count	:	708
Loop read count	:	0
Star read count	:	5

```
                    Mature                    Star
5'- aaugauaggauuauaaaauc acuggcaaaaggguuuagaacuugacugcccuauaaagaguucuuccucugugccauaggugguucagaauggcuucaacauuccucaaguc  -3'   obs
    aaugauaggauuauaaaauc acuggcaaaaggguuuagaacuugacugcccuauaaagaguucuuccucugugccauaggugguucagaauggcuucaacauuccucaaguc        exp
    ..................((((((((((..((((...(((((((.............)))))))..))))).))))...)))))))..(((((.......)))))........  reads   mm   sample
    ..................ucacuggcaaaaggguuuagaac.......................................................................  1       0    seq
    ..................ucacuggcaaaaggguuuagaacu......................................................................  10      0    seq
    ..................cacuggcaaaaggguuuaga..........................................................................  4       0    seq
    ..................cacuggcaaaaggguuuagaaU........................................................................  1       1    seq
    ..................cacuggcaaaaggguuuagaac........................................................................  7       0    seq
    ..................cacuggcaaaaggguuuagaaA........................................................................  2       1    seq
    ..................cacuggcaaaGgggguuuagaacu......................................................................  1       1    seq
    ..................cacuggcaaaaggguuuagaacu......................................................................  60      0    seq
    ..................cacuggcaaaaggguuuaNaacu.......................................................................  1       1    seq
    ..................cacuggGaaaaggguuuagaacu.......................................................................  1       1    seq
    ..................cacuggcaaaaggguuuagaacuu......................................................................  31      0    seq
    ..................cacuggcaaaaggguuuagaacuuU.....................................................................  2       1    seq
    ..................acuggcaaaaggguuuag............................................................................  1       0    seq
    ..................acuggcaaaaggguuuagaa..........................................................................  4       0    seq
    ..................acuggcaaaaggguuuagaaA........................................................................  4       1    seq
    ..................acuggcaaaaggguuuagaac........................................................................  26      0    seq
    ..................Ccuggcaaaaggguuuagaac........................................................................  1       1    seq
    ..................aAuggcaaaaggguuuagaac........................................................................  1       1    seq
    ..................Gcuggcaaaaggguuuagaac........................................................................  1       1    seq
    ..................acuggcaaaaggguuuagCacu.......................................................................  2       1    seq
    ..................acAggcaaaaggguuuagaacu.......................................................................  1       1    seq
    ..................acuggcaGaaggguuuagaacu.......................................................................  1       1    seq
    ..................acuggcaaaaggUuuuagaacu.......................................................................  3       1    seq
    ..................acuggcaaaaggguuuagaacG.......................................................................  2       1    seq
    ..................acuggcaaaaggguuuagaacu.......................................................................  244     0    seq
    ..................acGggcaaaaggguuuagaacu.......................................................................  1       1    seq
    ..................Ccuggcaaaaggguuuagaacu.......................................................................  3       1    seq
    ..................acuggcaaaaggguuuagaacuu......................................................................  260     0    seq
    ..................acuggcaaaaggguuuagaacuA......................................................................  1       1    seq
    ..................acuggcaaaaggUuuuagaacuu......................................................................  3       1    seq
    ..................Ccuggcaaaaggguuuagaacuu......................................................................  1       1    seq
    ..................acuAgcaaaaggguuuagaacuu......................................................................  1       1    seq
    ..................acuggcaaaaggguuuagaacuG......................................................................  1       1    seq
```

```
                    Mature                    Star
aaugauaggauuauaaaauc acuggcaaaaggguuuagaacuugacugcccuauaaagaguucuuccucugugccauaggugguucagaauggcuucaacauuccucaaguc
    ..................acuUgcaaaaggguuuagaacuu......................................................................  1       1    seq
    ..................acuggcaaaaggguuuagNacuu......................................................................  3       1    seq
    ..................acuggcaaaaggguuuagGacuu......................................................................  1       1    seq
    ..................acuggcaaaaggguGuagaacuu......................................................................  1       1    seq
    ..................acuggcaaaaggguuuagUacuu......................................................................  1       1    seq
    ..................aAuggcaaaaggguuuagaacuu......................................................................  2       1    seq
    ..................acuggcaaaaggguuuagaacuuU.....................................................................  5       1    seq
    ..................Ccuggcaaaaggguuuagaacuugacugc................................................................  1       1    seq
    ..................acuggcaaaaggguuuagaacuugacugcccu.............................................................  3       0    seq
    ..................cuggcaaaaggguuuagaacu........................................................................  2       0    seq
    ..................cuggcaaaaggguuuagaacuu.......................................................................  7       0    seq
    ..................cuggcaaaaggguuuagaacuug......................................................................  1       0    seq
    ..................cuggcaaaaggguuuagaacuugacugcc................................................................  1       0    seq
    ...................uggcaaaaggguuuagaacuu.......................................................................  1       0    seq
    ...........................gGuuagaacuugacugccc.................................................................  1       1    seq
    ............................guuuagaacuugacugcccu...............................................................  1       0    seq
    ..............................uagaacuugacugcccua...............................................................  1       0    seq
    ...................................uugacugcccuauaaagaguucuuccucugugccauag.....................................  1       0    seq
    ...................................................uaaagaguucuuccucugugccauagA...............................  1       1    seq
    ....................................................aguucuuccucugugccaAag.....................................  1       1    seq
    ....................................................aguucuuccucugugccauagA....................................  1       1    seq
    ....................................................aguucuuccucugugccauagU....................................  1       1    seq
    .....................................................guucuuccucugugccauagA...................................  1       1    seq
    ......................................................uucuuccucugugccauagA....................................  1       1    seq
    ..........................................................................uggucagaauggcuucaac...............  1       0    seq
```

novel-mir-candidate-413

Provisional ID	:	chr17_36719
Score total	:	1.3
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.6
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	78
Mature read count	:	78
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- gauguaaccgauucaucucucagaagggaggcugggguucauuuucgaguaguauuuuauacuuuagugaacguggacuccagacucucugugaacccuaugagagcgcguc  -3'    exp
    (((((...........((((((..((((((.(((((((((((.((((...((((((...)))))....)))).)))))))))))).)))))).........)))))).)))))   reads      mm         sample
    .....aaccgauucaucucucagaagggaggcugggguuc.......................................................................   1          0          seq
    ..............................................................auacuuuagugaacguggacuccagacucucugugaacccu............   1          0          seq
    .............................................................cuuuagugaacguggacuccagacucucugugaacc...............   1          0          seq
    ...............................................................agugaacguggacuccagacucucugugaacccu............   2          0          seq
    ..................................................................gaacguggacuccagacucucugug....................   1          0          seq
    .................................................................aacguggacuccagacucucugu.......................   1          0          seq
    .................................................................aacguggacuccagacucucugug......................   1          0          seq
    .................................................................aacguggacuccagacucucugugU.....................   1          1          seq
    .................................................................aacguggacuccagacucucugugaaU...................   1          1          seq
    ...................................................................acguggacuccagacucucu........................   1          0          seq
    ..................................................................acguggacuccagacucucug.......................   2          0          seq
    ..................................................................acguggacuccagacucucuUu......................   1          1          seq
    ..................................................................acguggacuccagacucucugA......................   1          1          seq
    ..................................................................acguggacuccagacucucugu......................   29         0          seq
    ..................................................................acguggacuccagacucucuguA.....................   2          1          seq
    ..................................................................acguggacuccagacucucugug.....................   9          0          seq
    ..................................................................acguggacuccagacucuUugug.....................   1          1          seq
    ..................................................................acguggacuccagacucucuguU.....................   3          1          seq
    ..................................................................acguggacuccagacucuAugug.....................   1          1          seq
    ..................................................................acguggacuccagacucucuguga....................   3          0          seq
    ..................................................................acguggacuccagacucucugugU....................   8          1          seq
    ..................................................................cguggacuccagacucucugu.......................   2          0          seq
    ..................................................................cUuggacuccagacucucugug......................   1          1          seq
    ..................................................................cguggacuccagacucucuguU.....................   3          1          seq
    ..................................................................cguggacuccagacucucugug......................   4          0          seq
    ..................................................................cguggacuccagacucucugugU.....................   1          1          seq
    ...............................................................cuccagacucucugugaacc...............................   1          0          seq
    ...............................................................ccagacucucugugaacccu...............................   1          0          seq
    ..............................................................agacucucugugaacccu.............................   1          0          seq
    ...........................................................cucugugaacccuaugagagc.....                                1          0          seq
```

novel-mir-candidate-348

Provisional ID	:	chr10_25300
Score total	:	1.7
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	29
Mature read count	:	29
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- agucaggugggaggucuggcccagccacagucaggccuagcguugucuucagaccuucaaauuugaagguuaagugaccacaggccucauuccgguggccugccuggcccc  -3'    exp
    .....((((...((((..((((..(((..(((.(((((((...((.(((....((((((((....)))))))).....)))..)))))))).))).))))))).))).))).))).))).  reads      mm         sample
    ...........................................................guuaagugaccacaggccu.......................  1          0          seq
    ...........................................................guuaagugaccacaggccucau....................  1          0          seq
    ...........................................................uuaagugaccacaggccuca.....................  4          0          seq
    ...........................................................uuaagugaccacaggccucau....................  3          0          seq
    ...........................................................uuaagugaccacaggccucaA....................  1          1          seq
    ...........................................................uuaagugaccacaggccucauA...................  3          1          seq
    ...........................................................uuaagugaccacaggccucauG...................  1          1          seq
    ...........................................................uuaagugaccacaggccucauu...................  15         0          seq
    ..............................................................................................ggCggccugccuggcccc  1          1          seq
```

novel-mir-candidate-228

Provisional ID	:	chrX_45346
Score total	:	2.4
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.7
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	65
Mature read count	:	63
Loop read count	:	0
Star read count	:	2

```
                                 Star                      Mature
5'- uuucuguccugcauucugugcagacaccacucagaggaacugugguuagagaaaagcuugauagcuuuucucuaaccacaguuccucugagcagccaggauggaugggccu  -3'    obs
    uuucuguccugcauucugugcagacaccacucagaggaacugugguuagagaaaagcuugauagcuuuucucuaaccacaguuccucugagcagccaggauggaugggccu         exp
    .....(((((.(((((((.((.(......((((((((((((((((((((((((((((((((....))))))))))))))))))))))))))))))).)))))))...)))))..   reads      mm         sample
    ................................cagaggaacugugguuagaga.......................................................   1          0          seq
    ................................agaggaacugugguuagagaa.......................................................   1          0          seq
    ...............................................ucuGuaaccacaguuccucuga......................   1          1          seq
    ...............................................ucucuaaccacaguuccucuga......................   5          0          seq
    ...............................................ucucuaaccacaguuccucugaC.....................   1          1          seq
    ...............................................ucucuaaccacaguuccucugagc....................   1          0          seq
    ...............................................cucuaaccacaguuccucugagcU....................   1          1          seq
    ...............................................ucuaaccacaguuccucuga........................   2          0          seq
    ...............................................ucuaaccacaguuccucugag.......................   1          0          seq
    ...............................................ucuaaccacaguuccucugagc......................   25         0          seq
    ...............................................ucuaaccacaguuccucugagA.....................   2          1          seq
    ...............................................ucuaaccacaguuccucugagcU....................   1          1          seq
    ................................................uaaccacaguuccucugagc......................   1          0          seq
    ................................................uaaccacaguuccucugagcU.....................   1          1          seq
    ................................................uaaccacaguuccucugagcag....................   3          0          seq
    ................................................uaaccacaguuccGcugagcag....................   1          1          seq
    ................................................uaaccacaguuccucugagcagc...................   1          0          seq
    ................................................uaaccacaguuccucugagcagA...................   4          1          seq
    ................................................uaaccacaguuccucugagcagU...................   6          1          seq
    .................................................aaccacaguuccucugagcag....................   2          0          seq
    .................................................aaccacaguuccucugagcagc...................   1          0          seq
    .................................................aaccacaguuccucugagcagA...................   3          1          seq
```

novel-mir-candidate-26

Provisional ID	:	chr9_22667
Score total	:	174.8
Score for star read(s)	:	3.9
Score for read counts	:	163.8
Score for mfe	:	2.5
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	333
Mature read count	:	324
Loop read count	:	0
Star read count	:	9

```
                 Mature                    Star
5'- ccauuuuuaugcuuacuacuaaaagcuguccacuguagaguugcuguauguagcaauguguauccacucuacaguggucagcuuuuaguagagagcauaaaaaugauaaaa  -3'   obs
    ccauuuuuaugcuuacuacuaaaagcuguccacuguagaguugcuguauguagcaauguguauccacucuacaguggucagcuuuuaguagagagcauaaaaaugauaaaa        exp
    .(((((((((((.(((((((((((((.(((((((((((((((....)))))).........))))))))))))).))))))))))))).))))))))))))).......  reads   mm   sample
    ..............acuacuaaaGgcuguccacug.......................................................................  1       1    seq
    ..............cuacuaaaGgcuguccacugua......................................................................  1       1    seq
    ..............uacuGaaagcuguccacuguag......................................................................  1       1    seq
    ..............uacuaaaGgcuguccacuguag......................................................................  1       1    seq
    ..............uacuaaaagcuguccacuguag......................................................................  5       0    seq
    ..............uacuaaaagcuguccacuguagag....................................................................  1       0    seq
    ...............acuaaaagcuguccacuguagagu...................................................................  1       0    seq
    ................cuaaaagcuguccacuguag......................................................................  2       0    seq
    ................cuaaaagcuguccacuguaga.....................................................................  1       0    seq
    ................cuaaaagcuguccacuguUgag....................................................................  1       1    seq
    ................cuaaaagcuguccacuguagag....................................................................  9       0    seq
    ................cAaaaagcuguccacuguagagu...................................................................  1       1    seq
    ................cuaaaagcuguccacuguagagu...................................................................  3       0    seq
    ................cuaaaagcuguccacuguagaguu..................................................................  1       0    seq
    ................cuaaaagcuguccacuguagaAuu..................................................................  1       1    seq
    ................uGaaagcuguccacuguag.......................................................................  1       1    seq
    ................uaaaagcuguccacuguaga......................................................................  1       0    seq
    ................uaaaGgcuguccacuguagag.....................................................................  1       1    seq
    ................uaaaagcuguccacuguagag.....................................................................  4       0    seq
    ................uaaaagcuguccacuguagagu....................................................................  16      0    seq
    ................uGaaagcuguccacuguagagu....................................................................  1       1    seq
    ................uaaaagcuguccacuguagaAu....................................................................  1       1    seq
    ................uaaaagcuguccacuguagaguugcu................................................................  2       0    seq
    ...................aaaagcuguccacuguag......................................................................  3       0    seq
    ...................aaaagcuguccacuguaga.....................................................................  4       0    seq
    ...................aaaagcuguccacuguagag....................................................................  44      0    seq
    ...................Caaagcuguccacuguagag....................................................................  2       1    seq
    ...................aaaagcuguccacuguagGg....................................................................  1       1    seq
    ...................aaaGgcuguccacuguagag....................................................................  3       1    seq
    ...................Gaaagcuguccacuguagag....................................................................  1       1    seq
    ...................Caaagcuguccacuguagagu...................................................................  1       1    seq
    ...................aaaagcuguccacuguagagA...................................................................  13      1    seq
    ...................aaaagcuguccacuguagagu...................................................................  73      0    seq
```

```
                 Mature                    Star
ccauuuuuaugcuuacuacuaaaagcuguccacuguagaguugcuguauguagcaauguguauccacucuacaguggucagcuuuuaguagagagcauaaaaaugauaaaa
...................aaaGgcuguccacuguagagu...................................................  8       1    seq
...................aaaagcuguccacuguagNgu...................................................  1       1    seq
...................aGaagcuguccacuguagagu...................................................  4       1    seq
...................aGaagcuguccacuguagaguu..................................................  3       1    seq
...................aaaGgcuguccacuguagaguu..................................................  1       1    seq
...................Caaagcuguccacuguagaguu..................................................  1       1    seq
...................aaaagcuguccacuguagaguu..................................................  69      0    seq
...................aaaagcuguccacuguagaguA..................................................  2       1    seq
...................aaaagcuguccacuguagNguu..................................................  1       1    seq
...................Gaaagcuguccacuguagaguu..................................................  3       1    seq
...................aUaagcuguccacuguagaguu..................................................  1       1    seq
...................aaaagcuguccacuguagaguuU.................................................  5       1    seq
...................aGaagcuguccacuguagaguug.................................................  1       1    seq
...................aaaagcuguccacuguagaguuA.................................................  2       1    seq
...................aaaagcuguccacuguagaguug.................................................  1       0    seq
...................aaaagcuguccacuguagaguugA................................................  1       1    seq
....................aaagcuguccacuguaga.....................................................  1       0    seq
....................aaaUcuguccacuguagag....................................................  1       1    seq
....................aaagcuguccacuguagagu...................................................  1       0    seq
....................aaagcuguccacuguagaguu..................................................  1       0    seq
....................aaagcuguccacuguagaguug.................................................  7       0    seq
....................aaagcuguccacuguagaguugA................................................  1       1    seq
.....................aagcuguccacuguagaguug.................................................  4       0    seq
.....................aagcuguccacuguagaguugc................................................  1       0    seq
.....................agcuguccacuguagaguu...................................................  1       0    seq
.....................agcuguccacugCagaguugcu................................................  1       1    seq
.....................agcuguccacuguagaguugcu................................................  8       0    seq
......................cuguccacuguagaguug....................................................  1       0    seq
.......................uguccacuguagaguugcu..................................................  1       0    seq
........................uccacuguagaguugcuguaugua...........................................  1       0    seq
.....................................................cucuacGguggucagcuuuu.....................  2       1    seq
.....................................................cucuacaguggucagcuuuua....................  1       0    seq
.....................................................cucuacaguggucagcuuuuag...................  1       0    seq
.....................................................ucuacGguggucagcuuuuag....................  1       1    seq
.....................................................ucuacGguggucagcuuuuagu...................  2       1    seq
.....................................................ucuacGguggucagcuuuuagua..................  1       1    seq
.....................................................uacGguggucagcuuuuagu....................  1       1    seq
```

novel-mir-candidate-216

Provisional ID	:	chr6_16370
Score total	:	4.1
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	0.8
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	31
Mature read count	:	31
Loop read count	:	0
Star read count	:	0

Mature **Star**

```
5'- gagagucugccuuggacucuagaagcuguggaaacugccaagucaugcauuuagacugcuuucaguuuuuacaagugcugaauggguguuaagacuuaguaacuuacc  -3'   exp
    ..((((((.....((((((....((((((((((((((...((((.........))))).....)))))))))))...)))....)))))))..)))))).........  reads   mm   sample
    ...................Gagaagcuguggaaacugc.......................................................................  1       1    seq
    ...................agaagcuguggaaacugc........................................................................  30      0    seq
```

novel-mir-candidate-380

Provisional ID	:	chr18_39275
Score total	:	1.5
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.8
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	62
Mature read count	:	62
Loop read count	:	0
Star read count	:	0

Mature Star

```
5'- aauacaaagcuauuacugucuaauaugaaagucuagccgcuagauuuucaagccuagcugcuaggcuuucauauuauacaguaaauaauauauugaaaaucugugucuuugg  -3'   exp
    ....(((((.(((((((((.((((((((((((((((.(((((..........)))))..)))))))))))))))))).)))))).................)))..))))).   reads    mm    sample
    ...................cuaauaugaaagucuagc.......................................................................   1        0     seq
    ...................uaauaugaaagucuagccgc.....................................................................   1        0     seq
    ...................uGauaugaaagucuagccgcu....................................................................   1        1     seq
    ...................uaauaugaaagucuagccgcu....................................................................   45       0     seq
    ...................uaauaugaaagucuagccgcuU...................................................................   1        1     seq
    ...................uaauaugaaagucuagccgcua....................................................................   6        0     seq
    ...................uaauaugaaagucuagccgcuaU...................................................................   4        1     seq
    ....................aauaugaaagucuagccgcu.....................................................................   2        0     seq
    ....................aauaugaaagucuagccgcuag....................................................................   1        0     seq
```

novel-mir-candidate-359

Provisional ID	:	chr14_31959
Score total	:	1.7
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	64
Mature read count	:	60
Loop read count	:	0
Star read count	:	4

Star **Mature**

```
5'- uguguuugcaguagggcuuugggaaugggucugugucacugugggaguagcagcuaccaccacuacaauauccucacagugacacgagcccccacaaaauccuccuguccc -3'   obs
    uguguuugcaguagggcuuugggaauggguucugugucacugugggaguagcagcuaccaccacuacaauauccucacagugacacgagcccccacaaaauccuccuguccc        exp
    .......((((.((((.((((((...((((.(((((((((((((((((((..(......)..)))).....)))).))))))))))))).)))))).))))).))))).))))...   reads   mm   sample
    ........................aauggGcugugucacugugga..................................................................   1       1    seq
    ........................aaugggucugugucacugugggU..................................................................   1       1    seq
    ...............................ugugucacugugggaAuagca...............................................................   1       1    seq
    ...............................ugugucacugugggaAuagcag..............................................................   3       1    seq
    ...................................................................aauauGcucacagugacacg.........................   1       1    seq
    ...................................................................aauauccucacagugacacga........................   1       0    seq
    ...................................................................uccucacagugacacgagcc.........................   6       0    seq
    ...................................................................uUcucacagugacacgagcc.........................   1       1    seq
    ...................................................................uccucacagugacacgagccc........................   18      0    seq
    ...................................................................uccucacagugacacgagccU........................   1       1    seq
    ...................................................................uccucacagugacacgagAcc........................   1       1    seq
    ...................................................................uccucacagugacacgagcccU.......................   8       1    seq
    ...................................................................uUcucacagugacacgagcccc.......................   1       1    seq
    ...................................................................uccucacagugacacgagccccU......................   10      1    seq
    ...................................................................uccucacagugacacgagcccccU.....................   1       1    seq
    ...................................................................ccucacagugacacgagccA........................   1       1    seq
    ...................................................................ccucacagugacacgagcccc.......................   2       0    seq
    ...................................................................ccucacagugacacgagccccU......................   2       1    seq
    ...................................................................ccucacagugacacgagccccAa.....................   1       1    seq
    ...................................................................cucacagugacacgaAccc.........................   1       1    seq
    ...................................................................cucacagugacacgagccc.........................   2       0    seq
    ...................................................................cucacagugacacgagcccU........................   1       1    seq
    ...................................................................cucacagugacacgagccccU......................   1       1    seq
    ...................................................................cucacagugacacgagcccccU.....................   1       1    seq
    ...................................................................cucacagugacacgaAccccccac....................   1       1    seq
    ...................................................................ucacagugacacgagcccccaAaa....................   1       1    seq
```

novel-mir-candidate-186

Provisional ID	:	chrX_44489
Score total	:	10.8
Score for star read(s)	:	3.9
Score for read counts	:	3.2
Score for mfe	:	2.7
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	18
Mature read count	:	16
Loop read count	:	0
Star read count	:	2

Star **Mature**

```
5'- ucuaagccaggccccauccauccuggcugcucagaggaacugugguuagagaaaagcuaucaagcuuuucucuaaccacaguuccucugaguggugucugcacagaaugca  -3'   obs
    ucuaagccaggccccauccauccuggcugcucagaggaacugugguuagagaaaagcuaucaagcuuuucucuaaccacaguuccucugaguggugucugcacagaaugca        exp
    ....(((((((..........)))))))(((((((((((((((((((((((((((((((....)))))))))))))))))))))))))))))).......((((.....))))  reads   mm   sample
    ................................cagaggaacugugguuagaga.................................................  1       0    seq
    ................................agaggaacugugguuagagaa.................................................  1       0    seq
    ...............................................................ucucuaaccacaguuccucuga.....................  5       0    seq
    ...............................................................ucuGuaaccacaguuccucuga.....................  1       1    seq
    ...............................................................ucucuaaccacaguuccucugaC....................  1       1    seq
    ...............................................................cucuaaccacaguuccucugagu....................  1       0    seq
    ...............................................................ucuaaccacaguuccucuga.......................  2       0    seq
    ...............................................................ucuaaccacaguuccucugag......................  1       0    seq
    ...............................................................ucuaaccacaguuccucugagu.....................  3       0    seq
    ...............................................................ucuaaccacaguuccucugagA....................  2       1    seq
```

novel-mir-candidate-89

Provisional ID	:	chr9_21979
Score total	:	49.1
Score for star read(s)	:	3.9
Score for read counts	:	41.9
Score for mfe	:	2.3
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	94
Mature read count	:	93
Loop read count	:	0
Star read count	:	1

```
                                   Star                    Mature
5'- aacacagagcauagagagaaaaagcauaccauauagUUAGCCAGAGUUCCUAAAGAAAAUAGUCCCAGUUUCUUCAGGAACUCUGGCUAACUAUAUGGUACGCUUAUACCAU -3'   obs
   aacacagagcauagagagaaaaagcauaccauauagUUAGCCAGAGUUCCUAAAGAAAAUAGUCCCAGUUUCUUCAGGAACUCUGGCUAACUAUAUGGUACGCUUAUACCAU        exp
   ......................((((.(((((((((((((((((((((((.(((((((..........)))))))..)))))))))))))))))))))))))).)))).......   reads     mm        sample
   ....................................uuagccagaguuccuaaagaa.......................................................   1         0         seq
   ......................................................................uucuucaggaacucuggcu.......................   1         0         seq
   ......................................................................uucuucaggaacucuggcuaac....................   1         0         seq
   ......................................................................ucuucaggaacucuggcuU.......................   1         1         seq
   ......................................................................ucuucaggaacucuggcuaa......................   4         0         seq
   ......................................................................ucuucaggaacucuggcuaac.....................   5         0         seq
   ......................................................................ucuuUaggaacucuggcuaac.....................   1         1         seq
   ......................................................................ucuucaggaacucuggcuNacu....................   1         1         seq
   ......................................................................ucuucaggaacucuggcuGacu....................   2         1         seq
   ......................................................................ucuuGaggaacucuggcuaacu....................   1         1         seq
   ......................................................................ucuucaggaacucuggcuCacu....................   1         1         seq
   ......................................................................ucuucaggaacucuggcuaacu....................   55        0         seq
   ......................................................................ucuuUaggaacucuggcuaacu....................   5         1         seq
   ......................................................................cuucaggaacucuCgcuaacu.....................   1         1         seq
   ......................................................................cuucaggaacucuggcuaacu.....................   6         0         seq
   ......................................................................uucaggaacucuggcuaacu......................   7         0         seq
   ......................................................................uucaggaacucuggcuaacuau....................   1         0         seq
```

novel-mir-candidate-131

Provisional ID	:	chr7_19547
Score total	:	31.8
Score for star read(s)	:	3.9
Score for read counts	:	25.1
Score for mfe	:	1.8
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	61
Mature read count	:	41
Loop read count	:	0
Star read count	:	20

Mature Star

```
5'- ggcuggcuuuggccuaguagaccguaaggauacaaugauugagaugcaauguaagugcugcaaucauuuaugcuugcggaggacuaggcagggcaagguucacaggaauua -3'   obs
    ggcuggcuuuggccuaguagaccguaaggauacaaugauugagaugcaauguaagugcugcaaucauuuaugcuugcggaggacuaggcagggcaagguucacaggaauua        exp
    ..(((((((((.(((((((...(((((((.(((.(((((((((....(((.......)))..)))))))))))).)))))))...)))))))....))))))...))).....   reads   mm   sample
    ....................gaccguaaggauacaaugauug.......................................................................   34      0    seq
    ....................gaccguaaggauacaaugauuga......................................................................   3       0    seq
    ....................accguaaggauacaaugau..........................................................................   1       0    seq
    ....................accguaaggauacaaugauuga.......................................................................   2       0    seq
    ....................Gccguaaggauacaaugauuga......................................................................   1       1    seq
    ..........................................................aagugcugcaaucauuuaugcuugcggaggacu.......................   2       0    seq
    ..............................................................aucauuuaugcuugcggag..............................   3       0    seq
    ..............................................................aucauuuaugcuugcggagga............................   3       0    seq
    ..............................................................Gucauuuaugcuugcggagga............................   1       1    seq
    ..............................................................aucauuuaugcuugcggagU.............................   1       1    seq
    ..............................................................aucauuuaugcuugcggaggU............................   4       1    seq
    ..............................................................aucauuuaugcuugcggaggA............................   4       1    seq
    ..............................................................aucauuuaugcuugcggaggAu...........................   1       1    seq
    ..............................................................aucauuuaugcuugcggaggAu...........................   3       1    seq
```

novel-mir-candidate-221

Provisional ID	:	chr14_32262
Score total	:	3.2
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	0
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	55
Mature read count	:	45
Loop read count	:	0
Star read count	:	10

Star Mature

```
5'- cuaccuucuauuguuuuuaaauucaagaauagggaauuaguuccugguguuguuuacgaguguauucucgugucaacauacagggauuuagacauuuaacucucugugccuu  -3'   obs
    cuaccuucuauuguuuuuaaauucaagaauagggaauuaguuccugguguuguuuacgaguguauucucgugucaacauacagggauuuagacauuuaacucucugugccuu        exp
    ........................(((.(((((((.((((((((((((((((..((((((.....)))))).)))))).)))))))..........)))).)))))))..)))   reads    mm       sample
    ....................................aauuaguuccugguguuguuuacg.......................................................   6        0        seq
    ....................................aauuaguuccugguguugNuuacgaguguauucuc............................................   1        1        seq
    ....................................auuaguuccugguguuguuuacg........................................................   3        0        seq
    .....................................aguuccugguguuguuuacg..........................................................   1        0        seq
    ......................................cugguguuguuuacgaguguauuc.....................................................   1        0        seq
    ..........................................................uCucaacauacagggauuuaga....................................   1        1        seq
    ...........................................................ugucaacauacagggauuuagU...................................   2        1        seq
    ...........................................................ugucaacauacagggauuuaga...................................   39       0        seq
    ..........................................................ugucaacauacagggauuuagaA...................................   2        1        seq
    ..........................................................ugucaacauacagggauuuagaAa..................................   1        1        seq
```

novel-mir-candidate-152

Provisional ID	:	chr1_4266
Score total	:	26.1
Score for star read(s)	:	3.9
Score for read counts	:	19
Score for mfe	:	2.3
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	49
Mature read count	:	47
Loop read count	:	0
Star read count	:	2

```
                                   Star                    Mature
5'- ucucuuugcuguaaguucuuuaaauuauguacuggccugguaauauacauuuacugagguuuuaaaauucaguagauguguauugccaggccagugcaguauaauuuuaua  -3'    obs
    ucucuuugcuguaaguucuuuaaauuauguacuggccugguaauauacauuuacugagguuuuaaaauucaguagauguguauugccaggccagugcaguauaauuuuaua         exp
    ........................((..((((((((((((((((((((((((((((((.........)))))))))))))))))))))))))))))..))).........   reads      mm         sample
    ....................................ccugguaauauacauuuacug.............................................................   2          0          seq
    .........................................uaauauacauuuacugagguuuu.......................................................   1          0          seq
    ......................................................................aguagauguguauugccagg.....................   8          0          seq
    ......................................................................aUuagauguguauugccaggc....................   1          1          seq
    ......................................................................aguagauguguauugccaggc....................   28         0          seq
    ......................................................................aguagauguguauugccaggcU...................   1          1          seq
    ......................................................................aguagauguguauugccaggcA...................   4          1          seq
    ......................................................................aguagauguguauugccaggccU..................   3          1          seq
    ......................................................................aguagauguguauugccaggcAa.................   2          1          seq
```

novel-mir-candidate-226

Provisional ID	:	chr12_29063
Score total	:	2.4
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.7
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	59
Mature read count	:	57
Loop read count	:	0
Star read count	:	2

Mature **Star**

```
5'- ccuggcuccuuccuauguacucugagaucucuaugaggaggcuuccccuuccccucuaggaagacuccucauagagaucucagaguacauacgaaggggaaacauccaca  -3'   obs
    ccuggcuccuuccuauguacucugagaucucuaugaggaggcuuccccuuccccucuaggaagaccuccucauagagaucucagaguacauacgaaggggaaacauccaca        exp
    .....(((((((.(((((((((((((((((((((((((((.(((((.............)))))..)))))))))))))))))))))))))))).)))))))...........   reads   mm   sample
    ..............auguacucugagaucucuauga.......................................................................   2       0    seq
    ................uacucugagaucucuaugagga......................................................................   2       0    seq
    ...................ucugagaucucuaugagg.......................................................................   1       0    seq
    ...................ucugagaucucuaugagga......................................................................   1       0    seq
    ...................ucugagaucucuaugaggag.....................................................................   16      0    seq
    ...................ucugagaucucuaugaggaAg....................................................................   1       1    seq
    ...................ucugagaucucuaugaggagg....................................................................   19      0    seq
    ...................ucugagaucucuaugaggaggc...................................................................   7       0    seq
    ...................ucugagaucucuaugaggaggA...................................................................   2       1    seq
    ...................ucugagaucucuaugaggaggcu..................................................................   7       0    seq
    ...................ucugagaucucuaugaggaggcuu.................................................................   1       0    seq
    ...................ucugagaucucuaugaggaggcAu.................................................................   1       1    seq
    .....................ugagaucucuaugaggagg....................................................................   1       0    seq
    ..............................................................acucucauagagaucucagagu.........................   1       0    seq
    ...............................................................cuccucauagagaucucagagu........................   1       0    seq
```

novel-mir-candidate-77

Provisional ID	:	chr19_40559
Score total	:	60.6
Score for star read(s)	:	3.9
Score for read counts	:	54.7
Score for mfe	:	1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	119
Mature read count	:	113
Loop read count	:	0
Star read count	:	6

```
                                   Star                      Mature
5'- cuaguuucuccaucugagaaaugggcuaaauauuacuguccagguucuuugugauauacuuguguauuagugacacagaaucuggaccacaauuaggcugaacacauga  -3'    obs
    cuaguuucuccaucugagaaaugggcuaaauauuacuguccagguucuuugugauauuacuuguguauuagugacacagaaucuggaccacaauuaggcugaacacauga         exp
    ...(((((((.....)))))))..((.(((((.......((((((((((.(((...(((((.........)))))..))))))))))))))....)))))..)).........   reads      mm         sample
    ...........aucugUgaaaugggcuaa.......................................................................................   1          1          seq
    ...........aucugUgaaaugggcuaau......................................................................................   1          1          seq
    ...................................acuguccagguucuuugugaua...........................................................   4          0          seq
    ...................................acuguccagguucuuugugauauu.........................................................   1          0          seq
    ....................................uguccagguucuuugugaua............................................................   1          0          seq
    ..................................................................guauuaguagacacagaaucuggaccacaauuaggcug.........   1          0          seq
    ...................................................................auuaguagacacagaaucuggacc......................   3          0          seq
    ...................................................................auuaguagacacagaaucuggaccacaauu................   1          0          seq
    ..................................................................auuaguaAacacagaaucuggaccacaauu................   2          1          seq
    ......................................................................uaAacacagaaucuggacc.......................   1          1          seq
    ......................................................................uagacacagaaucuggacc.......................   3          0          seq
    ......................................................................uagacacagaaucuggacA.......................   1          1          seq
    ......................................................................uagacacagaaucuggacca......................   1          0          seq
    ......................................................................uagacacagaaucuggacAac.....................   2          1          seq
    ......................................................................uagacacagaaucuggacGac.....................   1          1          seq
    ......................................................................uagacacagaaucuggaccaU.....................   1          1          seq
    ......................................................................uagacacagaaucuggaccac.....................   2          0          seq
    ......................................................................uaAacacagaaucuggaccac.....................   5          1          seq
    ......................................................................uagacacagaaucuggacGaca....................   1          1          seq
    ......................................................................uagacacagaaucuggaccacU....................   12         1          seq
    ......................................................................uagacacagaaucuggacAaca....................   1          1          seq
    ......................................................................uGgacacagaaucuggaccaca....................   1          1          seq
    ......................................................................uaAacacagaaucuggaccaca....................   13         1          seq
    ......................................................................uagacacagaaucuggaccaca....................   48         0          seq
    ......................................................................uagacacagaaucuggaccacaa...................   1          0          seq
    ......................................................................agacacagaaucuggacc........................   1          0          seq
    ......................................................................aAacacagaaucuggaccac......................   1          1          seq
    ......................................................................agacacagaaucuggaccaca.....................   1          0          seq
    ......................................................................aAacacagaaucuggaccaca.....................   7          1          seq
    ......................................................................agacacagaaucuggaccacaau...................   1          0          seq
    ......................................................................aAacacagaaucuggaccacaau...................   1          1          seq
    ......................................................................agacacagaaucugAaccacaauu..................   1          1          seq
    ......................................................................aAacacagaaucuggaccacaauu..................   2          1          seq
```

```
                                   Star                      Mature
cuaguuucuccaucugagaaaugggcuaaauauuacuguccagguucuuugugauauacuuguguauuagugacacagaaucuggaccacaauuaggcugaacacauga
.......................................................................agacacagaaucuggaccacaauu...............   4          0          seq
.......................................................................cacagaaucuggaccacaauuaggcug.........   1          0          seq
.......................................................................aucuggaccacaauuaggcug.........   1          0          seq
```

novel-mir-candidate-179

Provisional ID	:	chr1_2370
Score total	:	14.3
Score for star read(s)	:	3.9
Score for read counts	:	8.8
Score for mfe	:	0.6
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	29
Mature read count	:	24
Loop read count	:	0
Star read count	:	5

Mature **Star**

```
5'- ccucaccgaguauacugaggcugagacuggacagaaagaccuuuuuucugauaagcucuuaaucuguaucaggcucagccaaaaugaguucuguuagggcugcuauuuu  -3'   obs
    ccucaccgaguauacugaggcugagacuggacagaaagaccuuuuuucugauaagcucuuaaucuguaucaggcucagccaaaaugaguucuguuagggcugcuauuuu        exp
    (((.((.(((........(((((((.(((((((((((((.(((.........)))).))))..)))))).))))).)))))))........)))).)).)))...........  reads   mm   sample
    ..............cugaggcAgagacuggaca.......................................................................  1       1    seq
    ..............ugaggcugagacuggacagaaaga.................................................................  1       0    seq
    ....................cugagacuggacagaaag...................................................................  3       0    seq
    ....................cugagacuggacagaNaga..................................................................  1       1    seq
    ....................cugagacuggacagaaagU..................................................................  2       1    seq
    ....................cugagacuggacagaaaga..................................................................  15      0    seq
    ....................cugagacuggacagaaagaA.................................................................  2       1    seq
    .......................gagacuggacagaaagacc...............................................................  1       0    seq
    ..........................................................uuaaucuguaucaggcucagA...........................  1       1    seq
    ..........................................................uuaaucuguaucaggcucagU...........................  1       1    seq
    ..........................................................uuaaucuguaucaggcucagcU..........................  1       1    seq
    ..........................................................uuaaucuguaucaggcucagcc..........................  1       0    seq
    ..........................................................uaaucuguaucaggcucagcca..........................  1       0    seq
```

novel-mir-candidate-412

Provisional ID	:	chr1_1088
Score total	:	1.3
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.6
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	174
Mature read count	:	174
Loop read count	:	0
Star read count	:	0

Mature Star

```
5'- ugugugguuaacaccuaugugguucggggcaacaaacuacaugugucacuaguuagcugccaguaguuagcugcucugaacacuuaggauaccuaaauauacaucggauuuuuc  -3'   exp
    ((((((((....((((.(((((((((((.(.(((((((.(((.(........).))).)))))))).).)))))))))))).))))).......)))))))).........
    ....................uucggggcaacaaacuac.....................................................................  1        0        seq
    ....................uucggggcaacaaacuacu....................................................................  11       0        seq
    ....................uCcggggcaacaaacuacu....................................................................  1        1        seq
    ....................uucggggcaacaaacuacuag...................................................................  6        0        seq
    ....................uucggggcaacaaacuacGagu..................................................................  1        1        seq
    ....................uucggggcaacaaacuacuagu..................................................................  137      0        seq
    ....................uucggggcaacaaacuacNagu..................................................................  1        1        seq
    ....................Gucggggcaacaaacuacuagu..................................................................  1        1        seq
    ....................uucggggcaacaaacuacuagA..................................................................  6        1        seq
    ....................uucggggcaacaaacuacuagug.................................................................  1        0        seq
    ....................uucggggcaacaaacuacuaguA.................................................................  8        1        seq
```

novel-mir-candidate-174

Provisional ID	:	chr6_16549
Score total	:	17.4
Score for star read(s)	:	3.9
Score for read counts	:	18
Score for mfe	:	-5.4
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	47
Mature read count	:	44
Loop read count	:	0
Star read count	:	3

```
                    Mature                    Star
5'- uuuaagaauacuuuuuauauuuugguacugacugucuagcauucuuauauuuucagccaaugcuugucucaguugguacuaauccuuuuuucuuucucuuuuaacagauuacu  -3'   obs
    uuuaagaauacuuuuuauauuuugguacugacugucuagcauucuuauauuuucagccaaugcuugucucaguugguacuaauccuuuuuucuuucucuuuuaacagauuacu        exp
    ...((((.............((((((((((((...((((((.............))))))).....)))))))))))))..............))))............   reads   mm   sample
    .........acuuuuuauauuuugguacugacugucu.......................................................................   1       0    seq
    ................auuuugguacugacugucuagcauu.....................................................................   1       0    seq
    ..................uuuugguacugacugucuagca......................................................................   1       0    seq
    ...................uuugguacugacugucuag........................................................................   6       0    seq
    ...................uuugguacugacugucuagc.......................................................................   5       0    seq
    ...................uuugguacugacugucuagca......................................................................   8       0    seq
    ...................uuugguacugacugucuagcau.....................................................................   2       0    seq
    ...................uuugguacugacugucuagcauu....................................................................   20      0    seq
    ....................uugguacugacugucuagcauu....................................................................   1       0    seq
    ..........................................................ugcuugucucaguugguacu...............................   3       0    seq
```

novel-mir-candidate-414

Provisional ID	:	chr2_7124
Score total	:	1.3
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.6
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	27
Mature read count	:	27
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- ccuggauugacaucgcuagauuucccauuacugugcugaauccagagagcagcaugaguuccugaaaugcaguucaauggugguucagcagacgguggaugcggaaaaucuu -3'    exp
    .((((..........)))).((((((((((((((((((((((..((((.((((...........)))).))))..))))).)))))))).))))).))))).....
    ........................................................................caguucaauggugguucagcag.....................
    ........................................................................caguucaauggugguucagcaga....................
    ........................................................................caguucaauggugguucagcagU....................
```

reads	mm	sample
4	0	seq
22	0	seq
1	1	seq

novel-mir-candidate-252

Provisional ID	:	chr4_11224
Score total	:	2.2
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.5
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	39
Mature read count	:	34
Loop read count	:	0
Star read count	:	5

```
                    Mature                  Star
5'- acaaagaaagcaucacuuaacauaaacugcaugccugcacaucacugcaugccuggugugcaggcaugcaguuuaugcugagugaugcuuacuucuaacugcaugccuggu  -3'    obs
    acaaagaaagcaucacuuaacauaaacugcaugccugcacaucacugcaugccuggugugcaggcaugcaguuuaugcugagugaugcuuacuucuaacugcaugccuggu         exp
    ...(((.(((((((((((.((((((((((((((((((((((((.........)))))))))))))))))))))))).))))))))))))).))).................   reads      mm         sample
    ....................cauaaacugcaugccugca.......................................................................   4          0          seq
    ....................cauaaacugcaugccugcac......................................................................   2          0          seq
    ....................cauaaacugcaugccugcaca.....................................................................   19         0          seq
    ....................cauaaacugcaugccugcaAa.....................................................................   2          1          seq
    ....................cauaaacugcaugccugcacU.....................................................................   1          1          seq
    ....................cauaaacugUaugccugcaca.....................................................................   1          1          seq
    ....................cauaaacugcaugccugcacaA....................................................................   2          1          seq
    .......................uaaacugcaugccugcaca.....................................................................   2          0          seq
    .......................uaaacugcaugccugcacU.....................................................................   1          1          seq
    ..........................................................ugugcaggcaugcaguuuaug...............................   3          0          seq
    ..........................................................ugcaggcaugcaguuuaug.................................   1          0          seq
    ..........................................................caggcaugcaguuuaugUug................................   1          1          seq
```

novel-mir-candidate-98

Provisional ID	:	chr12_28119
Score total	:	46.5
Score for star read(s)	:	3.9
Score for read counts	:	35.3
Score for mfe	:	2.7
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	81
Mature read count	:	80
Loop read count	:	0
Star read count	:	1

Star **Mature**

```
5'- uggugguuugcugcucccaucaacacaucaucuaggUUACAAGCCCAGUAUGCAUUAGgguauuuguccuaaugcaugcugggcuuguaaccuagaugacguguuacaaugcc -3'   obs
    uggugguuugcugcucccaucaacacaucaucuagguuacaagcccaguaugcauuaggguauuuguccuaaugcaugcugggcuuguaaccuagaugacguguuacaaugcc        exp
    .(((((..........)))))(((((.((((((((((((((((((((((((((((.......)))))))))))))))))))))))))))))))).)))))........   reads    mm       sample
    ....gguuugcugAcccaucaac.......................................................................................   1        1        seq
    ......................................uuacaagcccaguaugcauuag...................................................   1        0        seq
    ..............................................gAaugcauuagguauuug.........................................   1        1        seq
    ...............................................augcauuagguauuuguc........................................   1        0        seq
    ....................................................................uaaugcaugcugggcuugua......................   1        0        seq
    ...................................................................aaugcaugcugggcuuguaaccu...................   2        0        seq
    ....................................................................augcaugcugggcuugua........................   1        0        seq
    ....................................................................augcaugcugggcuuguaacc....................   3        0        seq
    ....................................................................augcaugcugggcuuguaGccu...................   1        1        seq
    ....................................................................augcaugcugggcuuguaaccu...................   35       0        seq
    ....................................................................augcaugcugggcuuguaaccAa..................   1        1        seq
    ....................................................................ugcaugcugggcuuguaac......................   2        0        seq
    ....................................................................ugcaugcugggcuuguaacc.....................   1        0        seq
    ....................................................................uUcaugcugggcuuguaaccu....................   1        1        seq
    ....................................................................ugcaugcugggcuuguaaccu....................   26       0        seq
    ....................................................................ugcGugcugggcuuguaaccu....................   2        1        seq
    ....................................................................ugcaugcuCggcuuguaaccu....................   1        1        seq
    ....................................................................ugcaugcugggcuuguGaccua...................   1        1        seq
    .....................................................................cGugcugggcuuguaaccuag...................   1        1        seq
    ....................................................................caugcugggcGuguaaccuaga...................   1        1        seq
```

novel-mir-candidate-86

Provisional ID	:	chr3_9580
Score total	:	51
Score for star read(s)	:	3.9
Score for read counts	:	46
Score for mfe	:	0.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	102
Mature read count	:	64
Loop read count	:	0
Star read count	:	38

```
                                   Mature                   Star
5'- uuggugcaauuuucuuuuuccccuuggacuuuugcugaagugugucucuccugcacuucagagaaauguucaaaggauuuguuuuggguuuggguuuguuucuuuccaggac  -3'   obs
    uuggugcaauuuucuuuuuccccuuggacuuuugcugaagugugucucuccugcacuucagagaaauguucaaaggauuuguuuuggguuuggguuuguuucuuuccaggac        exp
    ......................((.((((((((((.(((((((((.......)))))))))).))))).))))))).))....(((((((...((.......)).....))))))   reads     mm        sample
    ..................uccccuuggacuuuugcuga.......................................................................   1         0         seq
    ..................cccccuuggacuuuugcugaa......................................................................   1         0         seq
    ..................cccccuuggacuuuugcugaag.....................................................................   3         0         seq
    ..................cccccuuggacuuuugcugaaA.....................................................................   3         1         seq
    ..................ccccuuggacuuuugcuga........................................................................   2         0         seq
    ..................ccccuuggacuuuugcugaa.......................................................................   2         0         seq
    ..................ccccuuggacuuuugcugaag......................................................................   16        0         seq
    ..................ccccuuggacuuuugcugaaA......................................................................   8         1         seq
    ..................ccccuuggacuuuugcugaagu.....................................................................   1         0         seq
    ..................ccccuuggacuuuugcugaagA.....................................................................   2         1         seq
    ..................ccccuuggacuuuugcugaagug....................................................................   1         0         seq
    ..................ccccuuggacuuuugcugaagugA...................................................................   1         1         seq
    ..................ccccuuggacuuuugcugaagugU...................................................................   1         1         seq
    ..................ccccuuggacuuuugcugaagugC...................................................................   1         1         seq
    ..................cccuuggacuuuugcugaag.......................................................................   5         0         seq
    ..................cGcuuggacuuuugcugaag.......................................................................   1         1         seq
    ..................cccuuggacuuuugcugaagugA....................................................................   2         1         seq
    ..................cccuuggacuuuugcugaagugA....................................................................   5         1         seq
    ..................ccuuggacuuuugcugaagug......................................................................   3         0         seq
    ..................ccuuggacuuuugcugaagugu.....................................................................   1         0         seq
    ..................ccuuggacuuuugcugaagugA.....................................................................   3         1         seq
    ..................uggacuuuugcugaagugug.......................................................................   1         0         seq
    ..............................................ucuccugcacuucagagaaauguucaaaggauuuguuu.....................   2         0         seq
    ..............................................cuucagagaaauguucaaagga.....................................   1         0         seq
    ..............................................cuucagagaaauguucaaaggau....................................   1         0         seq
    ..............................................uucagagaaauguucaaagga......................................   2         0         seq
    ..............................................uucagagaaauguucaaaggau.....................................   11        0         seq
    ..............................................uucagagaaauguucaaaggauA....................................   4         1         seq
    ..............................................uucagagaaauguucaaaggauu....................................   15        0         seq
    ..............................................uucagagaaauguucaaaggauuu...................................   1         0         seq
    ..............................................ucagagaaauguucaaaggau......................................   1         0         seq
    ..............................................ucagagaaauguucaaaggauu.....................................   1         0         seq
    ...............................................agagaaauguucaaaggauuugu....................................   1         0         seq
```

```
                                   Mature                   Star
uuggugcaauuuucuuuuuccccuuggacuuuugcugaagugugucucuccugcacuucagagaaauguucaaaggauuuguuuuggguuuggguuuguuucuuuccaggac
.......................................................................aaaCgauuuguuuuggguu.....................   1         1         seq
.......................................................................uuugAuuuggguuuggguuu....................   1         1         seq
```

novel-mir-candidate-368

Provisional ID	:	chr1_1937
Score total	:	1.6
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.9
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	289
Mature read count	:	252
Loop read count	:	0
Star read count	:	37

```
                                   Star                                   Mature
5'- cuaauuagacaaaaaucaaugaaaauugauuuuauugauguugccauggaacuaauuuaaguuaaaaaaauuaguucuguggcaacaucgauaaaauugauaaagcucuaa  -3'    obs
    cuaauuagacaaaaaucaaugaaaauugauuuuauugauguugccauggaacuaauuuaaguuaaaaaaauuaguucuguggcaacaucgauaaaauugauaaagcucuaa         exp
    ........................((((((((((((((((((((((((((((((((((.........)))))))))))))))))))))))))))))))))).........  reads      mm         sample
    ...................................uugauguugccauggaac.......................................................  1          0          seq
    ...................................uugauguugccauggaacu......................................................  26         0          seq
    ...................................uugauguugccauggaacua.....................................................  1          0          seq
    ...................................uugauguugccauggaacuaa....................................................  2          0          seq
    ...................................uugauguugccauggaacuaau...................................................  6          0          seq
    ...................................uugauguugccauggaacNaau...................................................  1          1          seq
    ......................................................................aauuaguucuguggcaacauc......................  1          0          seq
    ......................................................................aauuaguucuguggcaacaucg.....................  1          0          seq
    .....................................................................auuaguucuguggcaaca.........................  1          0          seq
    .....................................................................auuaguucuguggcaacauc.......................  6          0          seq
    .....................................................................auuaguucuguggcaacaucg......................  11         0          seq
    .....................................................................auuaguucuguggcaacaucga.....................  16         0          seq
    .....................................................................auuaguucuguguAcaacaucga....................  1          1          seq
    .....................................................................auuaguucuguggcaacaucgaA....................  3          1          seq
    .....................................................................auuaguucuguggcaacaucgau....................  2          0          seq
    .....................................................................auuaguucuguggcaacaucgauU...................  1          1          seq
    ......................................................................uuaguucuguggcaacauc.......................  9          0          seq
    ......................................................................uuaguucuguggcaacauA.......................  2          1          seq
    ......................................................................uuaguucuguggcaacaucg......................  21         0          seq
    ......................................................................uuaguucuguggcaacaucA......................  1          1          seq
    ......................................................................uuaguucuguggcaacaucga.....................  80         0          seq
    ......................................................................uuaguucuguggcaacaucgau....................  11         0          seq
    ......................................................................uuaguucuguggcaacaucgaA....................  7          1          seq
    ......................................................................uuaguucuguggcaacaucgaua...................  8          0          seq
    ......................................................................uuaguucuguggcaacaucgauU...................  1          1          seq
    ......................................................................uuaguucuguggcaacauAgaua...................  1          1          seq
    ......................................................................uuaguucuguggcaacaucgaAa...................  4          1          seq
    .......................................................................uaguucuguggcaacauc.......................  1          0          seq
    .......................................................................uaguucuguggcaacaucg......................  3          0          seq
    .......................................................................uaguucuguggcaacaucga.....................  30         0          seq
    .......................................................................uaguucuguggcaacaucgau....................  5          0          seq
    .......................................................................uaguucuguggcaacaucgaA....................  3          1          seq
    .......................................................................uaguucuguggcaacaucgaua...................  16         0          seq
```

```
                                   Star                                   Mature
cuaauuagacaaaaaucaaugaaaauugauuuuauugauguugccauggaacuaauuuaaguuaaaaaaauuaguucuguggcaacaucgauaaaauugauaaagcucuaa
.......................................................................uaguucuguggcaacaucgaAa...................  1          1          seq
.......................................................................uaguucuguggcaacaucgauU...................  1          1          seq
.......................................................................uaguucuguggcGacaucgaua...................  1          1          seq
.......................................................................uaguucuguggcaacaucNaua...................  1          1          seq
.......................................................................uaguucuguggcaacaucgaGa...................  1          1          seq
.......................................................................uaguucuguggcaacaucgauaGa.................  1          1          seq
```

novel-mir-candidate-37

Provisional ID	:	chr3_8796
Score total	:	125.2
Score for star read(s)	:	3.9
Score for read counts	:	117.9
Score for mfe	:	2.4
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	243
Mature read count	:	128
Loop read count	:	0
Star read count	:	115

```
                    Mature                  Star
5'- uuaauugugcuccaaccaauggcucaagguucaagaaggccaauguugugagcacaggccuucucgagccuugagugugcuggugagcacaaagacuguccccagggacg  -3'    obs
    uuaauugugcuccaaccaauggcucaagguucaagaaggccaauguugugagcacaggccuucucgagccuugagugugcuggugagcacaaagacuguccccagggacg         exp
    ....(((((((((..((((...((((((((((.((((((((..((((...))))..)))))))).))))))))))).....))))))))))).....((((....)))).   reads      mm         sample
    ..................aauggcucaagguucaagaag.......................................................................   1          0          seq
    ..................auggcucaagguucaagaaggc......................................................................   1          0          seq
    ..................uggcucaagguucaagaagg........................................................................   1          0          seq
    ..................uggcucaagguucaagaaggc......................................................................   4          0          seq
    ..................uggcucaagguucaagaaggcc.....................................................................   1          0          seq
    ..................uggcucaagguucaagaaggccU....................................................................   1          1          seq
    ...................ggcucaagguucaagaag........................................................................   3          0          seq
    ...................ggcucaagguucaagaagg.......................................................................   3          0          seq
    ....................Agcucaagguucaagaaggc.....................................................................   1          1          seq
    ...................ggcucaagguucaagaaggc......................................................................   96         0          seq
    ...................gCcucaagguucaagaaggc......................................................................   1          1          seq
    ...................ggcucaagguucaagaaggA......................................................................   1          1          seq
    ...................gUcucaagguucaagaaggc......................................................................   1          1          seq
    ...................ggcucaagguucaagaaggcU.....................................................................   1          1          seq
    ...................ggcucaagguucaagaaggcc.....................................................................   8          0          seq
    ...................ggcucaagguucaagaaggcA.....................................................................   2          1          seq
    ...................ggcucaagguucaagaaggcUa....................................................................   1          1          seq
    ...................ggcucaagguucaagaaggccU....................................................................   2          1          seq
    ..........................................gccuucucgagccuugagugu...............................................   5          0          seq
    ..........................................gccuucucgagccuugagugA...............................................   1          1          seq
    ..........................................gccuucucgagccuugagugugA.............................................   3          1          seq
    ..........................................gccuucucgagccuugagugugU.............................................   1          1          seq
    ..........................................gccuucucgagccuugagugugc.............................................   1          0          seq
    ..........................................ccuucucgagccuugagA...................................................   1          1          seq
    ..........................................ccuucucgagccuugagug..................................................   13         0          seq
    ..........................................ccuucucgagccuugagugu.................................................   9          0          seq
    ..........................................ccuucucgagccuugagGgu.................................................   1          1          seq
    ..........................................cGuucucgagccuugagugug................................................   1          1          seq
    ..........................................ccuucucgagccuugaCugug................................................   1          1          seq
    ..........................................ccuucucgagccuugagugug................................................   16         0          seq
    ..........................................ccuucucgagccuugagugugU...............................................   11         1          seq
    ..........................................ccuCcucgagccuugagugugc...............................................   1          1          seq
    ..........................................ccuucucgagccuugagugugA...............................................   17         1          seq
```

```
                    Mature                  Star
uuaauugugcuccaaccaauggcucaagguucaagaaggccaauguugugagcacaggccuucucgagccuugagugugcuggugagcacaaagacuguccccagggacg
.......................................................ccuucucgagccuugagugugc.............................   27         0          seq
.......................................................ccuucucgagccuugagugugcu............................   3          0          seq
.......................................................ccuucucgagccuugagugugcA...........................   2          1          seq
.......................................................uucucgagccuugagugug................................   1          0          seq
```

novel-mir-candidate-219

Provisional ID	:	chr2_7520
Score total	:	3.9
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	0.6
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	602
Mature read count	:	602
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- aagccucuggccugcuaauuagcaauaagugcuuuauuuggaaggagggagucauccacucuugagccacugcagugaagucacuugaucucagucuggggaaaacac  -3'   exp
   ...(((((((.(((.....((.(.(((((((((((((((.((((((((....))).)))))...))).....))))))).))))))).))))))).))))))).......
   ....................................uuuggaaggagggaguAa.................................................
   ..............................................................ugagccacugcagugaagucacu.......................
   ...............................................................cacugcagugaagGcacuug......................
   ...............................................................acugcagugaagAcacuug.......................
   ...............................................................acugcagugaagucacuug........................
   ...............................................................acugcagugaagCcacuug........................
   ...............................................................acugcagugaagCcacuuga.......................
   ...............................................................acugcagugaagucacuugU.......................
   ...............................................................acugcagugaagGcacuuga.......................
   ...............................................................acugcagugaagucacuuga.......................
   ...............................................................acugcagugaagucacuugaA......................
   ...............................................................acugcagugaagGcacuugau......................
   ...............................................................acugcagugaagucacuugUu......................
   ...............................................................cugcagugaagGcacuuga........................
```

reads	mm	sample
1	1	seq
1	0	seq
1	1	seq
2	1	seq
15	0	seq
1	1	seq
1	1	seq
25	1	seq
549	1	seq
2	0	seq
2	1	seq
2	1	seq
1	1	seq
1	1	seq

novel-mir-candidate-155

Provisional ID	:	chr8_20521
Score total	:	24.9
Score for star read(s)	:	3.9
Score for read counts	:	22.6
Score for mfe	:	1.2
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	56
Mature read count	:	55
Loop read count	:	0
Star read count	:	1

Star **Mature**

```
5'- aggaguccc aaguuugagucuggaucagcauuuggcagauuucugagccuagagacagagcacaggcuucucuggcccgugaucucugcccugugaaagcccuugcccugauc  -3'   obs
    aggaguccc aaguuugagucuggaucagcauuuggcagauuucugagccuagagacagagcacaggcuucucuggcccgugaucucugcccugugaaagcccuugcccugauc        exp
    .(((.((........)).))).(((((((((..((((((..((((.(((.(((((...(((....)))))))))))).)).)).)))))).))))...((....)).))))))  reads   mm   sample
    ...............................uuggcagauuucugagccuagaga.......................................................  1       0    seq
    ......................................................ucuggcccgugaucucugc.......................  1       0    seq
    ......................................................ucuggcccgugaucucugcc......................  2       0    seq
    ......................................................ucuggcccgugaucucugccA.....................  1       1    seq
    ......................................................ucuggcccgugaucucugcccu....................  3       0    seq
    ......................................................ucuggcccgugaucucugcccuA...................  2       1    seq
    ......................................................ucuggcccgugaucucugcccuU...................  3       1    seq
    ......................................................ucuggcccgugaucucugcccug...................  15      0    seq
    ......................................................ucuggcccgugaucucugcccuUu..................  1       1    seq
    ......................................................ucuggcccgugaucucugcccuAu..................  3       1    seq
    ......................................................ucuggcccgugaucucugcccugu..................  9       0    seq
    ......................................................ucuggcccgugaucucugcccugA..................  8       1    seq
    ......................................................ucuggcccgugaucucugcccugAg.................  3       1    seq
    ......................................................ucuggcccgugaucucugcccuguAa................  1       1    seq
    ......................................................cuggcccgugaucucugcccuguU..................  1       1    seq
    .........................................................cccgugaucucugcccuU.....................  1       1    seq
    ............................................................gugaucucugcccugAga.................  1       1    seq
```

novel-mir-candidate-109

Provisional ID	:	chr2_7804
Score total	:	42.8
Score for star read(s)	:	3.9
Score for read counts	:	32.2
Score for mfe	:	2
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	75
Mature read count	:	74
Loop read count	:	0
Star read count	:	1

Star **Mature**

```
5'- cuaaaaaaucaugaacugacaacagacuuaaucucaacuucaagucccggcuuagccaccuauuaagugacuugaacuuugggacuaagccuguugucgguucagcccucua  -3'   obs
    cuaaaaaaucaugaacugacaacagacuuaaucucaacuucaagucccggcuuagccaccuauuaagugacuugaacuuugggacuaagccuguugucgguucagcccucua        exp
    ...........((((((((((((((.((((.((((((.((((((((...((((((.......)))))))))))))))).)))))).)))).)))))))))))))).........  reads   mm   sample
    ........................gacuuaaucucaacuucaagu.......................................................................  1       0    seq
    ......................................................................cuugaacuugggacuaagcc......................  2       0    seq
    .....................................................................Auugaacuugggacuaagccu......................  1       1    seq
    ......................................................................cuugaacuugggacuaagccu......................  24      0    seq
    ......................................................................cuugaacuugggacuaagccuA.....................  2       1    seq
    ......................................................................cuugaacuugggacuaagccug.....................  5       0    seq
    ......................................................................cuugaacuugggacuaagccugA....................  10      1    seq
    ......................................................................cuugaacuugggacuaagccugu....................  12      0    seq
    ......................................................................cuugaacuugggacuaagccugC....................  1       1    seq
    ......................................................................cuugaacuugggacuaagccuguu...................  2       0    seq
    ......................................................................cuugaacuugggacuaagccuguuU..................  1       1    seq
    .....................................................................uugaacuugggacuaagcc......................  1       0    seq
    ......................................................................uugaacuugggacuaagccu......................  3       0    seq
    ......................................................................uugaacuugggacuaagccug.....................  2       0    seq
    ......................................................................uugaacuugggacuaagccugu....................  8       0    seq
```

novel-mir-candidate-119

Provisional ID	:	chr20_41774
Score total	:	39.5
Score for star read(s)	:	3.9
Score for read counts	:	33.3
Score for mfe	:	1.4
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	77
Mature read count	:	74
Loop read count	:	0
Star read count	:	3

Mature Star

```
5'- aucauggaaucuagaauauuccugcuggaaagaaccugagaguugguuuggaccaauucccuggguuuuccagcagaugaaacaggcccaaagagguuaaaugacugggugaaa  -3'   obs
    aucauggaaucuagaauauuccugcuggaaagaaccugagaguugguuuggaccaauucccuggguuuuccagcagaugaaacaggcccaaagagguuaaaugacugggugaaa        exp
    ........((((((.......(((((((((..(((((.(.(((((((((....)))))))).).)))))))))))))).........((((.......)))).......)))))).....
```

reads	mm	sample
1	0	seq
1	0	seq
1	1	seq
3	0	seq
1	1	seq
2	0	seq
3	0	seq
3	0	seq
3	0	seq
3	0	seq
8	1	seq
4	0	seq
1	0	seq
3	0	seq
2	1	seq
17	0	seq
1	1	seq
14	0	seq
1	1	seq
1	0	seq
2	0	seq
1	0	seq
1	0	seq
1	1	seq
3	0	seq
1	1	seq
1	1	seq

```
    ................uauuccugcuggaaagaaccug.................................................
    ................auuccugcuggaaagaaccugag................................................
    ................uuccugcuggaaagaaccugU...................................................
    ................uuccugcuggaaagaaccugag..................................................
    ................uuccugcuggaaagaaccugagU.................................................
    ................uuccugcuggaaagaaccugaga.................................................
    ................uuccugcuggaaagaaccugagau................................................
    ................uccugcuggaaagaaccugag...................................................
    ................uccugcuggaaagaaccugaga..................................................
    ................uccugcuggaaagaaccugagag.................................................
    ................uccugcuggaaagaaccugagagA................................................
    ................uccugcuggaaagaaccugagau.................................................
    ...................ccugcuggaaagaaccugaga................................................
    ...................ccugcuggaaagaaccugagag...............................................
    ...................ccugcuggaaagaaccugagagA..............................................
    ...................ccugcuggaaagaaccugagau...............................................
    ...................ccugcuggaaagaaccugagaguA.............................................
    ...................ccugcuggaaagaaccugagauu..............................................
    ...................ccugcuggaaagaaccugagauuA.............................................
    ....................ugcuggaaagaaccugagag................................................
    ....................ugcuggaaagaaccugagauu...............................................
    ....................ugcuggaaagaaccugagauugguu...........................................
    ..............................gaaccugagauugguuuggacc....................................
    ...............................aaccugagauugguuuggacA.....................................
    ..........................................uucccuggguuuuccagcagaug.........................
    ...........................................uuccagcagauCaaacag.............................
    ..................................................gcUcaaagagguuaaauga.....................
```

novel-mir-candidate-399

Provisional ID	:	chr4_10984
Score total	:	1.4
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.7
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	99
Mature read count	:	99
Loop read count	:	0
Star read count	:	0

Mature Star

```
5'- gacaaaggcuuacugggcauuuugcagaauggugcuugugcuguguacugaagagcacuugugcaguucugauaaugccaagguugcagugagcuaacuugccuuuuucuau  -3'    exp
    ......(((((((((((((((.(.((((((.((((..(((((.(.......).)))))..)))).)))))))).)))))).......)))))))))).................
    ....................uuugcagaauggugcuugugc.......................................................................
    ....................uuugcCgaauggugcuugugc.......................................................................
    ....................uuugcagaauggGgcuugugcu......................................................................
    ....................uuugcagaauggugcuugugcu......................................................................
    ....................uuugcagaauggugcuugNgcu......................................................................
    ....................uuugcagaauggugcuugugcuU.....................................................................
    ....................uuugcagaauggugcuugugcug.....................................................................
    ....................uuugcagaauggugcuugugcuA.....................................................................
    ....................uuugcagaauggugcuugugcuUu....................................................................
    ....................uuugcagaauggugcuugugcuAu....................................................................
    ............................aauggugcuugugcuCuguacu..............................................................
    ......................................uugugcuguguCcugaaga.........................................................
    ..........................................................................cugauaaCgccaagguugc.......................
    ..............................................................................ugauaaugccaagguugcagugGgcu.................
    ...................................................................................gcGaagguugcagugagc..................
```

reads	mm	sample
2	0	seq
1	1	seq
1	1	seq
82	0	seq
2	1	seq
1	1	seq
2	0	seq
5	1	seq
1	1	seq
2	1	seq
1	1	seq
1	1	seq
1	1	seq
1	1	seq
2	1	seq

novel-mir-candidate-67

Provisional ID	:	chr1_3773
Score total	:	65.4
Score for star read(s)	:	3.9
Score for read counts	:	59.3
Score for mfe	:	1.2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	128
Mature read count	:	115
Loop read count	:	0
Star read count	:	13

Mature Star

```
5'- guuugaugauuaagugggguCACUGAAUUCCAUUUGUGGACUgaaaaguauucaauccacuuuugggguucagagauaaaacauuuuuucccaaguagcuggggcucuucca  -3'   obs
    guuugaugauuaagugggguCACUGAAUUCCAUUUGUGGACUgaaaaguauucaauccacuuuugggguucagagauaaaacauuuuuucccaaguagcuggggcucuucca        exp
    ...........(((((..(((.(((((((((((...(((((.((((.....)))).)))))...)))))))))))).)))....)))))..(((((......)))))........   reads    mm    sample
    ...........aaguggggucacugaauuccauuuguggacugaaaagu.................................................................   1        0     seq
    ..................gucacugaauuccauuug...............................................................................   1        0     seq
    ..................gucacugaauuccauuuguggacu........................................................................   4        0     seq
    ..................gucacugaauuccauuuguggacug.......................................................................   1        0     seq
    ..................ucacugaauuccauuuguggac..........................................................................   8        0     seq
    ..................ucacugaauucUauuuguggac..........................................................................   1        1     seq
    ..................ucacugaauuccauuugGggacu.........................................................................   1        1     seq
    ..................ucacugaauuccauuuguggacu........................................................................   4        0     seq
    ..................ucacugaauuccauuuguggacug.......................................................................   1        0     seq
    ...................cacugaauuccauuuguggac..........................................................................   8        0     seq
    ...................cacugaauuccauuugugNac..........................................................................   1        1     seq
    ...................cacugaauuccauuugGggacu.........................................................................   1        1     seq
    ...................cacugaauuccauuuguggacu........................................................................   67       0     seq
    ...................cacugaauuccauuugugCacug.......................................................................   1        1     seq
    ...................cacugaauuccauuuguggacug.......................................................................   6        0     seq
    ...................cacugaauuccauuuguggacuA.......................................................................   1        1     seq
    ...................cacugaauuccauuuguggacuga......................................................................   2        0     seq
    ...................cacugaauuccauuuguggacugC......................................................................   1        1     seq
    ....................acugaauuccauuuguggacu........................................................................   2        0     seq
    ....................acugaauuccauuuguggacug.......................................................................   1        0     seq
    ....................acugaauuccauuuguggacugU......................................................................   1        1     seq
    ....................acugaauuccauuuguggacuga......................................................................   1        0     seq
    .....................cugaauuccauuuguggacu........................................................................   1        0     seq
    ...............................................aauccacuuuugggguucagagU.........................................   1        1     seq
    ................................................auccacuuuugggguucagaga.........................................   2        0     seq
    .................................................uccacuuuugggguucagagau........................................   5        0     seq
    .................................................uccacuuuugggguucagNgau........................................   3        1     seq
    .................................................uccacuuuugggguucagagaua.......................................   1        0     seq
    ................................................cacuuuugggguucagagauaa........................................   1        0     seq
    ...............................................................................Cucccaaguagcuggggc.......         2        1     seq
    ..............................................................................Aucccaaguagcuggggc.......         2        1     seq
    ..............................................................................uucccaaguagcugggAcu......         1        1     seq
```

novel-mir-candidate-403

Provisional ID	:	chr4_11767
Score total	:	1.4
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.7
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	133
Mature read count	:	133
Loop read count	:	0
Star read count	:	0

Mature **Star**

```
5'- aagacuuggugugaugagcucuggauggcagcugggaacgucuucuuuuaaugagggcucccucuuccauccacagucguugaaccucucaggagggcugggcuggua  -3'   exp
    .......(((..((((((.((.(((((((.((..((((..((((((.......)))))))))..)).)))))))..))))))..))).(((((.....)))))......   reads   mm   sample
    ..................cucuggauggcagcugggaaU.....................................................................   2       1    seq
    ..................ucuggauggcagcuggga.......................................................................   5       0    seq
    ..................ucuggauggcagcugggaa......................................................................   15      0    seq
    ..................ucuggauggcagcugggaU......................................................................   3       1    seq
    ..................ucuggauggcagcugggaaA.....................................................................   17      1    seq
    ..................ucuggauggcagcugggaac.....................................................................   12      0    seq
    ..................ucuggauggcagcugggaaU.....................................................................   22      1    seq
    ..................ucuggauggcagcugggaacg....................................................................   8       0    seq
    ..................ucuggauggcagcugggaacU....................................................................   2       1    seq
    ..................ucuggauggcagcugggaacgu...................................................................   11      0    seq
    ..................ucuggauggcagcugggaacguA..................................................................   4       1    seq
    ..................ucuggauggcagcugggaacguU..................................................................   1       1    seq
    ..................ucuggauggcagcugggaacguc..................................................................   11      0    seq
    ..................ucuggauggcagcugggaacgucu.................................................................   11      0    seq
    ..................ucuggauggcagcugggaacguUu.................................................................   2       1    seq
    ..................ucuggauggcagcugggaacguAu.................................................................   4       1    seq
    ..................ucuggauggcagcugggaacgucA.................................................................   2       1    seq
    ..................ucuggauggcagcugggaacgucuucuuuu...........................................................   1       0    seq
    ..................ucuggauggcagcugggaaAgucuucuuuu...........................................................   1       1    seq
    ...................cuggauggcagcugggaacgucu.................................................................   1       0    seq
```

novel-mir-candidate-99

Provisional ID	:	chr17_37195
Score total	:	46.9
Score for star read(s)	:	3.9
Score for read counts	:	39.9
Score for mfe	:	2.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	90
Mature read count	:	89
Loop read count	:	0
Star read count	:	1

Star Mature

```
5'- acugcaggacucacggugcuugaagaagcgguaucuggcagagaggcccagaauccucccaagguguagguuucuagccucucugccaagugagacugacagucacuucuu  -3'   obs
    acugcaggacucacggugcuugaagaagcgguaucuggcagagaggcccagaauccucccaagguguagguuucuagccucucugccaagugagacugacagucacuucuu        exp
    (((((((..(((((((.(((((....))))).)...((((((((((((..((((.(((((....).).))).)))))..))))))))))))).))))).))).))))........  reads   mm   sample
    ................................ucuggcagagaggcccagaau................................................................  1       0    seq
    ......................................................................guuucuagccucucugcca......................  1       0    seq
    ......................................................................guuucuagccucucugccaag....................  3       0    seq
    ......................................................................guuucuagccucucugccaagu...................  17      0    seq
    .....................................................................uuucuagccucucugccaag.....................  2       0    seq
    .....................................................................uuucuagccucucugccaagA....................  1       1    seq
    .....................................................................uuucuagccucucugccaagu....................  54      0    seq
    .....................................................................uuucuagccucucugccaagug...................  3       0    seq
    .....................................................................uuucuagccucucugccaaguU...................  6       1    seq
    .....................................................................uuucuagccucucugccaaguga..................  2       0    seq
```

novel-mir-candidate-100

Provisional ID	:	chr14_31176
Score total	:	45.4
Score for star read(s)	:	3.9
Score for read counts	:	39.4
Score for mfe	:	1.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	89
Mature read count	:	85
Loop read count	:	0
Star read count	:	4

Mature **Star**

```
5'- aguccuacccugucuuguggaaucagaauuacugaauggagcccaggcauuuuuuaaaaaagguccccuugguaaauucuguuccuuagcaagucuugggaagugccuuccagaua -3'   obs
    aguccuacccugucuuguggaaucagaauuacugaauggagcccaggcauuuuuuaaaaaagguccccuugguaaauucuguuccuuagcaagucuugggaagugccuuccagaua        exp
    .((.((.(((.(.(((((((((.((((((((((..(((((.................)))))..))))))))))))))...))))).)..))).)).)).........
    aguccuacccugucuuguggaaucagaauuacugaauggagcccag.......................................................
    ......acccugucuuguggaaucagaauuacugaauggagcc..........................................................
    ............ucuuguggaaucagaauuacugaauggag.............................................................
    .............cuuguggaaucagaauuacugaauggagcccagg.......................................................
    ....................aaucagaauuacugaauggagccc.........................................................
    ....................aauUagaauuacugaauggagccc.........................................................
    ....................Caucagaauuacugaauggagccc.........................................................
    ....................aaucagaauuacugaauggagcccagg.......................................................
    ....................aaucagaauuacugaauggagcccCgg.......................................................
    ....................aaucagaauuacugGauggagcccaggc.....................................................
    ....................aaucagaauuacugaauggagcccaggc.....................................................
    ....................aaucagaauuacugaauggagcccCggc.....................................................
    ....................aaucagaauuacugaauggagccAaggc.....................................................
    .....................aucagaauuacugaauggagcc..........................................................
    ......................agaauuacugaauggagcccaggc.......................................................
    ......................agaauuacugaauggagcccaggca......................................................
    ........................aaAuacugaauggagccc............................................................
    ............................acugaauggagcccaggcauuuuuuaaaaaaguucc.....................................
    ..............................................aaaaaaguucccuugguaaauucuguuccu.........................
    ...............................................uucccuugguaaauucuguucc.................................
    ...............................................uucccuugguaaauucuguuccu................................
    ...............................................uucccuugguaaauucuguuccuu...............................
```

reads	mm	sample
1	0	seq
2	0	seq
1	0	seq
1	0	seq
50	0	seq
2	1	seq
1	1	seq
1	0	seq
1	1	seq
1	1	seq
21	0	seq
1	1	seq
1	1	seq
3	0	seq
1	0	seq
1	0	seq
1	1	seq
1	0	seq
1	0	seq
2	0	seq
1	0	seq
1	0	seq

novel-mir-candidate-445

Provisional ID	:	chr17_37457
Score total	:	1
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.3
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	21
Mature read count	:	21
Loop read count	:	0
Star read count	:	0

Mature **Star**

```
5'- aaauccgaaaugcuucaaaaucugcaaccuuugagcacugaugugugucucaaaggcaaugugcguuggagcguuccagauuuggggguuagggauguucagccuguaaau  -3'   exp
    .((((.(.(((((((((((....((((.(((((((((((.....).)))))))))))...))))..)))))))))))).).)))))((.(((((.((.....)))))))).)).....
    ....................ucugcaaccuuugagcac.....................................................................
    ....................ucugcaaccuuugagcacug...................................................................
    ....................ucugcaaccuuugagcacuga..................................................................
    ......................ugcaaccuuugagcacuga..................................................................
    ......................................ugauguguugcucaaaggc...................................................
```

reads	mm	sample
1	0	seq
1	0	seq
17	0	seq
2	0	seq
1	0	seq

novel-mir-candidate-194

Provisional ID	:	chr12_29522
Score total	:	5.8
Score for star read(s)	:	3.9
Score for read counts	:	4.7
Score for mfe	:	0
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	21
Mature read count	:	20
Loop read count	:	0
Star read count	:	1

Star **Mature**

```
5'- gcucugcagauccaaugacaaguggggccaaguauaggguagaaagaacuucugagcuuucauugacuucacccaacuugcuccccagguggccacagcugugcaaugg  -3'    obs
    gcucugcagauccaaugacaaguggggccaaguauaggguagaaagaacuucugagcuuucauugacuucacccaacuugcuccccagguggccacagcugugcaaugg          exp
    ....((((.(........((..(((((((.(((((...((((.(((((..(....)..)))))..........)))).)))))).))))))..))........).))))....   reads      mm         sample
    ......................uggggccaaguauaggguaga.......................................................................   1          0          seq
    ..........................................................................uucacccaacuugcuccccagU....................   1          1          seq
    ..........................................................................ucacccaacuugcuccccagU....................   13         1          seq
    ..........................................................................ucacccaacuugcuccccagA....................   4          1          seq
    ..........................................................................ucacccaacuugcuccccagUu...................   2          1          seq
    ...............................................................................uccccagguggccacagcug........   1          0          seq
```

novel-mir-candidate-177

Provisional ID	:	chr4_11054
Score total	:	14.9
Score for star read(s)	:	3.9
Score for read counts	:	7.8
Score for mfe	:	2.2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	27
Mature read count	:	23
Loop read count	:	0
Star read count	:	4

Mature **Star**

```
5'- acucaauugauuauaucagcugagcuagggauaucuccugagaaugucucccucccuauucucaggaaaaauccccuagcuugguugaugucaucagguccauacugguaauuuc  -3'   obs
    acucaauugauuauaucagcugagcuagggauaucuccugagaaugucucccucccuauucucaggaaaaauccccuagcuugguugaugucaucagguccauacugguaauuuc        exp
    ......(((((.(((((((((((((((((((...((((((((((.........)))))))))))...)))))))))))))))))))).))))).)).(((...))).......
```

	reads	mm	sample
....ugagcuagggauaucucc....	1	0	seq
....ugagcuagggauaucuccug....	2	0	seq
....ugagcuagggauaucuccuga....	1	0	seq
....ugagcuagggauaucuccugag....	2	0	seq
....ugagcuagggauaucuccugaga....	13	0	seq
....uUagcuagggauaucuccugaga....	1	1	seq
....ugagcuagggauaucuccugagaU....	1	1	seq
....ugagcuagggauaucuccugagaa....	2	0	seq
....ucaggaaaaauccccuagcu....	1	0	seq
....ucaggaaaaauUccuagcu....	1	1	seq
....ucaggaaaaauccccuagcuugguu....	1	0	seq
....caggaaaaauUccuagcuugguu....	1	1	seq
....gguugaugucaucaggAc....	1	1	seq

novel-mir-candidate-431

Provisional ID	:	chr7_19965
Score total	:	1.1
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.4
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	200
Mature read count	:	200
Loop read count	:	0
Star read count	:	0

Mature Star

```
5'- gcgcacagagcaagggcgacucggcuguguaucucugugccagaagcuuagccacaguguggcacagucgugucuuccugcucacaaaccucauccuucucucuccuugc  -3'   exp
    .......(((((.(((.(((.(((((((((..(.(((((.(.........).)))))..)..)))))))))..)))..)))))))).............................
    ..................acucggcuguguaucucugu.............................................................................
    ..................acucggcuguguaucucugugU...........................................................................
    ..................cucggcuguguaucucugugcc...........................................................................
    ..................cucggcuguguaucucugugccU..........................................................................
    ...................ucggcuguguaucucugugU.............................................................................
    ...................ucggcuguguaucucugugc.............................................................................
    ...................Acggcuguguaucucugugcc............................................................................
    ...................Gcggcuguguaucucugugcc............................................................................
    ...................ucggcuguguaucucCgugcc............................................................................
    ...................ucggcuguguaucucugugcc............................................................................
    ...................ucggcuguguaucucugugUc............................................................................
    ...................ucggcuguguaucucugugccU...........................................................................
    ...................ucggcuguguaucucugugUca...........................................................................
    ...................ucggcuguguaucucugugcca...........................................................................
```

reads	mm	sample
1	0	seq
1	1	seq
2	0	seq
1	1	seq
3	1	seq
2	0	seq
1	1	seq
2	1	seq
1	1	seq
127	0	seq
18	1	seq
33	1	seq
4	1	seq
4	0	seq

novel-mir-candidate-188

Provisional ID	:	chr10_23595
Score total	:	10.4
Score for star read(s)	:	3.9
Score for read counts	:	3.2
Score for mfe	:	2.3
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	18
Mature read count	:	16
Loop read count	:	0
Star read count	:	2

Star Mature

```
5'- ggaaggcagguagaaggcagcugcccagguaaggcauaaggccagaggcuaguuuaggcaagaaggaauaaacuagccucuggccuuauaccuuaacuuccagaccaugaga  -3'   obs
    ggaaggcagguagaaggcagcugcccagguaaggcauaaggccagaggcuaguuuaggcaagaaggaauaaacuagccucuggccuuauaccuuaacuuccagaccaugaga        exp
    (((((...(((((.......)))))....(((((.(((((((((((((((((((..(......)..))))))))))))))))))).)))))).)))))...........   reads    mm    sample
    ...................................cauaaggccagaggcuag.......................................................   1        0     seq
    ...................................cauaaggccagaggcuaguA.....................................................   1        1     seq
    ......................................................................aacuagccucuggccuuauacc...................   16       0     seq
```

novel-mir-candidate-406

Provisional ID	:	chr22_44277
Score total	:	1.3
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.6
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	27
Mature read count	:	27
Loop read count	:	0
Star read count	:	0

Mature Star

```
5'- agccaggccuguccccugcucaucuguuccccugggcuggaaguggaaucucacaccagcuuuggguuucaguggGccaggugaacuaucccaaaguagcagacagcucuuccu -3'    exp
    ....(((.(((((((((((((.(((..(((.(((((((..((((....)))).)))))))).)))...)))))))).)))).....((((.....))))..)))))).))).....
    ....................aucuguucccugggcuggaag.....................................................................
    ....................aucuguucccugAgcuggaag.....................................................................
    ....................aucuguucccugggcuggaaA.....................................................................
    ....................aucuguucccugggcuggaagA....................................................................
    ....................aucuguucccugggcuggaagu.....................................................................
    ....................aucuguucccugggcuggaaguU....................................................................
    ....................aucuguucccugggcuggaaguUg...................................................................
    ....................aucuguucccugggcuggaagugA...................................................................
    ....................aucuguucccugggcuggaagugU...................................................................
    ....................ucuguucccugggcuggaaguA....................................................................
    ..........................................................................Uguggccaggugaacuauc.......................
    ...................................................................................acuaucccaaaguagcagacagcucu.....
    ...........................................................................................uagcagacagcucuuccu
```

reads	mm	sample
2	0	seq
1	1	seq
2	1	seq
1	1	seq
14	0	seq
1	1	seq
1	1	seq
2	1	seq
2	1	seq
1	1	seq
1	1	seq
1	0	seq
1	0	seq

novel-mir-candidate-112

Provisional ID	:	chr5_13100
Score total	:	42.4
Score for star read(s)	:	3.9
Score for read counts	:	35.3
Score for mfe	:	2.2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	81
Mature read count	:	44
Loop read count	:	0
Star read count	:	37

Mature Star

```
5'- ugguaaaggugaaggugaagagacuucauuaggcaugaaaguaucuucccaacuuucauuccuagugaagucccuucaccuuuagcuccugaacauacuguguuugcagcuu  -3'   obs
    ugguaaaggugaaggugaagagacuucauuaggcaugaaaguaucuucccaacuuucauuccuagugaagucccuucaccuuuagcuccugaacauacuguguuugcagcuu        exp
    .((...((.((((((((((((.((((((((((((.((((((((.........)))))))).)))))))))))))).))))))))))))).))))).........((((....)))).... reads   mm   sample
    ..................agagacuucauuaggcaugaa.......................................................................... 1      0    seq
    ..................gagacuucauuaggcauga..........................................................................  1      0    seq
    ..................gagacuucauuaUgcauga..........................................................................  1      1    seq
    ..................gagacuucauuaggcaugaa.......................................................................... 3      0    seq
    ..................gagacuucauuaggcaugaaU......................................................................... 1      1    seq
    ..................gagacuucauuaggcaugaaa......................................................................... 3      0    seq
    ..................gagacuucauuaggcaugaaag........................................................................ 1      0    seq
    ..................gagacuucauuaggcaugaaagu....................................................................... 1      0    seq
    ...................agacuucauuaggcaugaa.........................................................................  6      0    seq
    ...................agacuucauuaggcaugaaag.......................................................................  1      0    seq
    ...................agacuucauuaggcaugaaagu.....................................................................  24     0    seq
    ...................agacuucauuaggcaugaaagA.....................................................................  1      1    seq
    ..................................................uuucauuccuagugaaguc.......................................  15     0    seq
    ..................................................uuucauuccuagugaagucU......................................  1      1    seq
    ..................................................uuucauuccuagugaagucccu....................................  12     0    seq
    ..................................................uucauuccuagugaagGcccu.....................................  1      1    seq
    ..................................................uucauuccuagugaagucccu.....................................  3      0    seq
    ..................................................uucauuccuagugaagucccuu....................................  2      0    seq
    ..................................................uucauuccuagugaagucccuA....................................  1      1    seq
    ..................................................uucauuccuagugaaguccAuu....................................  1      1    seq
    ..................................................uucauuccuagugaagucccuuG...................................  1      1    seq
```

novel-mir-candidate-60

Provisional ID	:	chr11_26890
Score total	:	73.8
Score for star read(s)	:	3.9
Score for read counts	:	66.9
Score for mfe	:	2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	143
Mature read count	:	142
Loop read count	:	0
Star read count	:	1

```
                                 Star                      Mature
5'- ucccaucccaauacgaggcacugaguuaaguguucuacacagauaaucuguuauuaaugagagaauagaauagacaaucuguguagagugcuuaaccuggugcccaguguuu  -3'    obs
    ucccaucccaauacgaggcacugaguuaaguguucuacacagauaaucuguuauuaaugagagaauagaauagacaaucuguguagagugcuuaaccuggugcccaguguuu         exp
    .........(((((..(((((((.(((((((((((((((((((..(((((((((........))))..)))))..)))))))))))))))))))).)))))))..)))))..   reads      mm         sample
    ...............................uguucuacacagauaaucuguu.......................................................   1          0          seq
    ......................................................................uagacaaucuguguagagu......................   2          0          seq
    ......................................................................uagacaaucuguguagagug.....................   1          0          seq
    ......................................................................uagacaaucuguguagagugU....................   1          1          seq
    ......................................................................uagacaaucuguguagagugc....................   8          0          seq
    ......................................................................uagacaaucuguguagagNgcu...................   2          1          seq
    ......................................................................uagacaaucuguguagagAgcu...................   3          1          seq
    ......................................................................uagacaaucuguUuagagugcu...................   1          1          seq
    ......................................................................uagacaGucuguguagagugcu...................   1          1          seq
    ......................................................................uagacaaucuguguagagugcG...................   1          1          seq
    ......................................................................uagacaaucuguguagagugcu...................   114        0          seq
    ......................................................................uagacaaucuguguagagugcuu..................   8          0          seq
    ...........................................................................aucuguguagagugcuuaaccuggugcc........   1          0          seq
    ...............................................................................Cugcuuaaccuggugccc.......   1          1          seq
```

novel-mir-candidate-347

Provisional ID	:	chr6_15713
Score total	:	1.7
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	267
Mature read count	:	264
Loop read count	:	0
Star read count	:	3

```
                                   Star                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mature
ugggcuuaugugagucuccagggaugggagagagaagggcugguucuggauuguugggaaacuccacagguacuugaccuugacucucccucaccaggcacuggggccac
.....acuugaccuugacucucccuca..... 6 0 seq
.....acuugaccuugacucucccucaA..... 1 1 seq
.....acuugaccuugacucucccucaU..... 1 1 seq
.....cuugaccuugacucucccucU..... 1 1 seq
.....uugaccuugacucucccuca..... 1 0 seq
.....uugaccuugacucucccucac..... 3 0 seq
.....uugaccuugacucucccucacU..... 2 1 seq
.....uugaccuugacucCcccucacc..... 1 1 seq
.....uugaccuugacucucccucacc..... 6 0 seq
.....uugaccuugacucucccuUacca..... 1 1 seq
.....uugaccuugacucucccucaccU..... 1 1 seq
.....uugaccuugacucucccucaccag..... 1 0 seq
.....ugaccuugacucucccucaccag..... 2 0 seq
.....ugaccuugacucucccucNccag..... 1 1 seq
.....ugaccuugacucucccucaccagA..... 1 1 seq
.....ugaccuugacucucccucaccagAc..... 1 1 seq
.....gaccuugacucucccucaccag..... 1 0 seq
```

```
                                   Star                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mature
5'- ugggcuuaugugagucuccagggaugggagagagaagggcugguucuggauuguugggaaacuccacagguacuugaccuugacucucccucaccaggcacuggggccac -3' obs
ugggcuuaugugagucuccagggaugggagagagaagggcugguucuggauuguugggaaacuccacagguacuugaccuugacucucccucaccaggcacuggggccac exp
.....(((.(((((((((((.(((((((..((((...(((.(((....(((....)))....)))).)))...))))..)))))))))).))).....)))))))))))) reads mm sample
.....gauggagagagaagggcugguucu..... 1 0 seq
.....augggagagagaagggcugguucC..... 1 1 seq
.....ugggagagagaagggcugguu..... 1 0 seq
.....ugggagagagaagggcugguuc..... 1 0 seq
.....ugggagagagaagggcugguuAu..... 1 1 seq
.....ucuggauuguugggaaacuccacaguac..... 1 0 seq
.....guacuugaccuugacucucccu..... 8 0 seq
.....uacuugaccuugacucucc..... 1 0 seq
.....uacuugaccuugacucuccc..... 11 0 seq
.....uacuugaccuugacucucccA..... 1 1 seq
.....uacuugaccAugacucucccu..... 1 1 seq
.....uacuugaccuugacuAucccu..... 1 1 seq
.....uacuugaccuugacucucGcu..... 1 1 seq
.....uacuugaccuugacucucUcu..... 1 1 seq
.....uacuugaccuugacucucccu..... 99 0 seq
.....uacuugaccuugacuGucccu..... 1 1 seq
.....uacuugaccuugacucucccuA..... 1 1 seq
.....uacuugaccuugacucucccuc..... 7 0 seq
.....uacuugaccuugacucucccuU..... 1 1 seq
.....uacuugaccuugacucucccuca..... 56 0 seq
.....uacuugaccuugacCcucccuca..... 1 1 seq
.....uacuugaccuAgacucucccuca..... 1 1 seq
.....uacuugaccuugacucucccucC..... 3 1 seq
.....uacuugaccuugacucucccucU..... 10 1 seq
.....uacuugaccuugacucucccucaU..... 8 1 seq
.....uacuugaccuugacucucccucac..... 9 0 seq
.....uacuugaccuugacucucccucCc..... 1 1 seq
.....uacuugaccuugacucucccucaA..... 5 1 seq
.....uacuugaccuugacucucccucacA..... 2 1 seq
.....uacuugaccuugacucucccucacU..... 6 1 seq
.....uacuugaccuugacucucccucaccag..... 1 0 seq
.....acuugaccuugacucucccu..... 3 0 seq
.....acuugaccuugacucucccuc..... 1 0 seq
```

novel-mir-candidate-33

Provisional ID	:	chr16_34586
Score total	:	143.7
Score for star read(s)	:	3.9
Score for read counts	:	142.4
Score for mfe	:	0.3
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	291
Mature read count	:	290
Loop read count	:	0
Star read count	:	1

Mature **Star**

```
agugacucaugccccauugaaacuguuggcuugcauuagggacugcagagugugaaggugccuagugaaaagccaguaaggucauaaccauuagaauagguaguaucagcca
.....................Gcuguuggcuugcauuagggacu.....................................................  1   1   seq
.....................acuguuggcuugcauuagggacC.....................................................  1   1   seq
.....................acuguuggcuugcauuUgggacu.....................................................  1   1   seq
.....................acuguuggcuugcauuagggacuU....................................................  2   1   seq
.....................acuguuggcuugcauuagggacuA....................................................  1   1   seq
.......................uguuggcuugcauuagggacu......................................................  1   0   seq
.........................guuggcuugcauuagggacu.....................................................  1   0   seq
..........................uuggcuugcaCuagggacu....................................................  1   1   seq
.............................................................ugccuagugaaaagccaguaaggu.............  1   0   seq
```

Mature **Star**

```
5'- agugacucaugccccauugaaacuguuggcuugcauuagggacugcagagugugaaggugccuagugaaaagccaguaaggucauaaccauuagaauagguaguaucagcca  -3'   obs
    agugacucaugccccauugaaacuguuggcuugcauuagggacugcagagugugaaggugccuagugaaaagccaguaaggucauaaccauuagaauagguaguaucagcca        exp
    .(((((((.......)))..((.(((((((.(((((((.(((.((.....)).)))).)))))))..)))))))..)))))))..............(((.......))).   reads   mm   sample
    ..................gaaacuguuggcuugcauuaggg.....................................................   1   0   seq
    ..................aaacuguuggcuugcauuaggg......................................................   1   0   seq
    ..................aaacuguuggcuugcauuaggga.....................................................   8   0   seq
    ..................aaacuguuggcuugcauuagggC.....................................................   1   1   seq
    ..................aaacuguuggcuugcauuCggga.....................................................   1   1   seq
    ..................aaacuguuggcuugcauuagggU.....................................................   1   1   seq
    ..................aaacuguuggcuugcauuagggac....................................................   1   0   seq
    ..................aaacuguuggcuugcauuagggacu...................................................   2   0   seq
    ...................aacuguuggcuugcauuag........................................................   1   0   seq
    ...................aacuguuggcuugcauuagg.......................................................   4   0   seq
    ...................aacuguuggcuugcauuaggg......................................................   9   0   seq
    ...................aacuguuggcAugcauuaggga.....................................................   1   1   seq
    ...................aacuguuggcuugcauuaggAa.....................................................   1   1   seq
    ...................aacuguuggcuugcauuagggG.....................................................   1   1   seq
    ...................aacuguuggcuugcauuaggga.....................................................  55   0   seq
    ...................aacuguuggcuuUcauuagggac....................................................   1   1   seq
    ...................aacuguuggcuugcauuagggac....................................................  21   0   seq
    ...................aacuguuggcuugcauuagggaA....................................................  15   1   seq
    ...................aacuguuggcuugcaGuagggac....................................................   1   1   seq
    ...................aacuguugNcuugcauuagggac....................................................   1   1   seq
    ...................aacuguuggcuugcauuagggaUu...................................................   1   1   seq
    ...................aacuguuggcuugcauuagggacu...................................................  71   0   seq
    ...................aUcuguuggcuugcauuagggacu...................................................   1   1   seq
    ...................aacuguuggcuuUcauuagggacu...................................................   2   1   seq
    ...................acuguuggcuugcauuagAga......................................................   1   1   seq
    ...................acuguuggcuugcauuaggga......................................................   1   0   seq
    ...................acuguuggcuugcauuagggU......................................................   1   1   seq
    ...................acuguuggcuugcauuagggA......................................................   1   1   seq
    ...................acuguuggcuugcauuagggac.....................................................   9   0   seq
    ...................acuguuggcuugcauuagggacA....................................................   1   1   seq
    ...................acuguuggcuugcauuagggacG....................................................   1   1   seq
    ...................acuguuggcuugcauuagggacu....................................................  62   0   seq
    ...................acuguuggcuugcauuagNgacu....................................................   2   1   seq
```

novel-mir-candidate-249

Provisional ID	:	chr19_39994
Score total	:	2.3
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.6
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	101
Mature read count	:	71
Loop read count	:	0
Star read count	:	30

```
                    Mature                  Star
5'- uggguauagaaacaucugggaaugauggcaucaaaccaggugccaggcaucauccuggcaccugguucgaugccaucaauccuagauauuugcagcgggaacuaccggggac  -3'   obs
    uggguauagaaacaucugggaaugauggcaucaaaccaggugccaggcaucauccuggcaccugguucgaugccaucaauccuagauauuugcagcgggaacuaccggggac        exp
    .........(((.(((((((((.(((((((((.(((((((((((((((.....)))))))))))))))).))))))))))).))))))))).)))....(((......)))..... reads     mm        sample
    ....................aaugauggcaucaaaccagg.......................................................................... 1         0         seq
    ....................aaugauggcaucaaaccaggu.......................................................................... 4         0         seq
    ....................aaugauggcaAcaaaccaggu.......................................................................... 1         1         seq
    ....................aaugauggcaucaaaccaggug......................................................................... 14        0         seq
    ....................aaugauggcaucaaaccagguU......................................................................... 1         1         seq
    ....................aaugauggcaucaaaccaggugU........................................................................ 4         1         seq
    ....................aaugauggcaucaaaccaggugA........................................................................ 12        1         seq
    ....................aaugauggcaucaaaccaggugcA.......................................................................... 1         1         seq
    .....................augauggcaucaaaccaggug.........................................................................  3         0         seq
    .....................augauggcaucaaaccaggugU........................................................................  1         1         seq
    .....................augauggcaucaaaccaggugc........................................................................  1         0         seq
    .....................augauggcaucaaaccaggugcAa......................................................................  1         1         seq
    ......................ugauggcaucaaaccaggugc........................................................................  3         0         seq
    .......................gauggcaucaaaccaggugc........................................................................  1         0         seq
    ........................gauggcaucaaaccaggugcc......................................................................  1         0         seq
    ........................auggcaucaaaccaggug........................................................................  10        0         seq
    ........................auUgcaucaaaccaggug........................................................................  1         1         seq
    ........................auggcaucaaaccaggugU.......................................................................  2         1         seq
    ........................auggcaucaaaccaggugc.......................................................................  6         0         seq
    ........................auggcaucaaaccaggugcc......................................................................  1         0         seq
    .........................uggcaucaaaccaggugU.......................................................................  1         1         seq
    .........................uggcaucaaaccaggugccagg...................................................................  1         0         seq
    ..............................................caAcugguucgaugccauc...................................................  1         1         seq
    ..............................................caccugguucgaugccauca..................................................  1         0         seq
    ..............................................caccugguucgaugccaucaC.................................................  2         1         seq
    ..............................................caccugguucgaugccaucaaG................................................  2         1         seq
    ..............................................caccugguucgaugccaucaau................................................  9         0         seq
    ..............................................caccugguucgaugccaucaauA...............................................  1         1         seq
    ..............................................caccugguucgaugccaucaauc...............................................  5         0         seq
    ..............................................caccugguucgaugccaucaauU...............................................  1         1         seq
    ..............................................caccugguucgaugccaucaaucA..............................................  1         1         seq
    ...............................................guucgaugccaucaauccuag...............................................  1         0         seq
    ...............................................guucgaugccaucaauccuagU..............................................  2         1         seq
```

```
                    Mature                  Star
uggguauagaaacaucugggaaugauggcaucaaaccaggugccaggcaucauccuggcaccugguucgaugccaucaauccuagauauuugcagcgggaacuaccggggac
.......................................................guucgaugccaucaauccuagaA........................ 1         1         seq
.......................................................uucgaugccaucaauccuaga......................... 1         0         seq
.......................................................uucgaugccaucaauccuagU......................... 1         1         seq
.......................................................uucgaugccaucaauccuagaC........................ 1         1         seq
.......................................................cgaugccaucaauccuagauau........................ 1         0         seq
```

novel-mir-candidate-303

Provisional ID	:	chr10_25150
Score total	:	1.9
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	223
Mature read count	:	221
Loop read count	:	0
Star read count	:	2

```
                                   Star                    Mature
5'- aagucagccuccaaaaccucuggggagcuuuaaggcaaagccagagagcucuuccuggggaaagcuuggaagagcucucugacuucgccuccuucuccacagcaggaacg  -3'    obs
    aagucagccuccaaaaccucuggggagcuuuaaggcaaagccagagagcucuuccuggggaaagcuuggaagagcucucugacuucgccuccuucuccacagcaggaacg         exp
    ................(((((((.((((.....((((.(((.((((((((((((((.((......)).))))))))))))))).))).)))).))))....))))).))).))))....  reads     mm      sample
    ................................uaaggcaaagccagagagcuc.......................................................  1         0       seq
    ....................................caaagccagagagcucuuG.......................................................  1         1       seq
    ...................................aaagccagagagcucuuccc.......................................................  1         0       seq
    ......................................................gcuuggaagagcucucugacu.........................  1         0       seq
    .....................................................gaagagcucucugacuucgcc.....................  1         0       seq
    .....................................................gaagagcucucugacuucgcU.....................  3         1       seq
    .....................................................gaagagcucucugacuucgccu....................  1         0       seq
    .....................................................aagagcucucugacuucgcc.....................  6         0       seq
    .....................................................aagagcucucugacuucgccG.....................  1         1       seq
    .....................................................aagagcucucugacuucgcUu.....................  2         1       seq
    .....................................................Cagagcucucugacuucgccu.....................  1         1       seq
    .....................................................aagagcucucugacuucgccu.....................  100       0       seq
    .....................................................aagagcucucugacuucgccA.....................  3         1       seq
    .....................................................Nagagcucucugacuucgccu.....................  1         1       seq
    .....................................................aagagcucucugacuucgccuc....................  4         0       seq
    .....................................................aagagcucucugacuucgccuU....................  2         1       seq
    .....................................................aagagcucucugacuucgccucc...................  4         0       seq
    .....................................................aagagcucucugacuucgccucU...................  26        1       seq
    .....................................................aagagcucucugacuucgccucA...................  5         1       seq
    .....................................................aagagcucucugacuucgccucAu..................  1         1       seq
    .....................................................aagagcucucugacuucgccuccu..................  2         0       seq
    ....................................................agagcucucugacuucgccu.....................  14        0       seq
    ....................................................agagcucucugacuucgccuc....................  3         0       seq
    ....................................................agagcucucugacuucgccuU....................  1         1       seq
    ....................................................agagcucucugacuucgccucc...................  9         0       seq
    ....................................................agagcucucugacuucgccucA...................  2         1       seq
    ....................................................agagcucucugacuucgccucU...................  4         1       seq
    ....................................................agagcucucugacuucgccuccu..................  4         0       seq
    ....................................................agagcucucugacuucgccuccAu.................  2         1       seq
    ....................................................gagcucucugacuucgccucc....................  2         0       seq
    ....................................................gagcucucugacuucgccuccu...................  12        0       seq
    ....................................................agcucucugacuucgccuccu....................  2         0       seq
    ....................................................agcucucugacuucgccuccuu...................  1         0       seq
```

```
                                   Star                    Mature
aagucagccuccaaaaccucuggggagcuuuaaggcaaagccagagagcucuuccuggggaaagcuuggaagagcucucugacuucgccuccuucuccacagcaggaacg
.......................................................................agcucucugacuucgccuccuuA...............  2         1       seq
.......................................................................agcucucugacuucgccuccuuUu..............  1         1       seq
```

novel-mir-candidate-14

Provisional ID	:	chr11_26126
Score total	:	427.8
Score for star read(s)	:	3.9
Score for read counts	:	421.2
Score for mfe	:	1.6
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	838
Mature read count	:	816
Loop read count	:	1
Star read count	:	21

Mature **Star**

```
5'- gcugugccagcaguccaggguacccugacugucccucuguagacuguugagacugaguuccuguugggacagucaguugguauguauccaaguccccugcugaccacuaaug  -3'   obs
    gcugugccagcaguccaggguacccugacugucccucuguagacuguugagacugaguuccuguugggacagucaguugguauguauccaaguccccugcugaccacuaaug        exp
    ...(((.(((((((.(..(((((((((((((((((.....((((..........))))......)))))))))))..)))))....))..)...)))))).)))).....
```

reads	mm	sample
1	0	seq
1	0	seq
1	0	seq
1	1	seq
1	0	seq
1	0	seq
3	0	seq
1	1	seq
1	0	seq
1	1	seq
2	1	seq
3	1	seq
1	0	seq
2	0	seq
1	1	seq
1	0	seq
1	1	seq
3	1	seq
3	1	seq
7	0	seq
1	1	seq
2	1	seq
1	1	seq
3	0	seq
1	0	seq
1	0	seq
1	0	seq
28	0	seq
3	1	seq
13	0	seq
1	1	seq
1	1	seq
1	1	seq

Mature **Star**

```
gcugugccagcaguccaggguacccugacugucccucuguagacuguugagacugaguuccuguugggacagucaguugguauguauccaaguccccugcugaccacuaaug
```

1	1	seq
1	1	seq
1	1	seq
1	1	seq
259	0	seq
3	1	seq
1	1	seq
26	1	seq
1	1	seq
3	1	seq
1	1	seq
241	0	seq
1	1	seq
2	1	seq
1	1	seq
2	1	seq
2	1	seq
8	1	seq
17	1	seq
1	1	seq
1	1	seq
16	1	seq
7	1	seq
2	0	seq
1	0	seq
2	0	seq
1	1	seq
41	0	seq
4	1	seq
1	1	seq
4	1	seq
1	1	seq
34	0	seq
1	1	seq
2	1	seq
1	1	seq
2	0	seq
1	0	seq
6	0	seq
1	1	seq
19	0	seq
5	1	seq
1	1	seq
1	0	seq
1	0	seq
1	1	seq
2	0	seq
1	0	seq
1	1	seq
1	1	seq
1	0	seq
1	0	seq
1	0	seq
1	0	seq
1	0	seq
1	1	seq
1	0	seq
1	0	seq
3	0	seq
1	0	seq
3	1	seq
1	0	seq
1	0	seq
1	0	seq
1	1	seq

Mature Star

```
gcugugccagcaguccaggguacccugacuguccccucuguagacuguugagacugaguuccuguugggacagucaguugguaauguauccaagucccugcugaccacuaaug
.............................................................ugggacagucaguugguaugua.........................   1   0   seq
............................................................gacagucaguugguaugu...........................   1   0   seq
...........................................................agucaguugguauguauccaagucccu..............   1   0   seq
.......................................................................Cuauccaagucccugcugacca......   1   1   seq
.....................................................................auccaagucccugcugaccacu....   1   0   seq
....................................................................uccaagucccugcugaccacu....   1   0   seq
.....................................................................caagucccugcugaccacu....   1   0   seq
.....................................................................aagucccugcugaccacu....   1   0   seq
```

novel-mir-candidate-139

Provisional ID	:	chr2_5013
Score total	:	29.9
Score for star read(s)	:	3.9
Score for read counts	:	22.6
Score for mfe	:	2.5
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	56
Mature read count	:	52
Loop read count	:	0
Star read count	:	4

Star Mature

```
5'- uggaccacauccuuccccaguacugugcuuaagaggcagguaguccuuuuaagaugcaaaaccauaugcaucuuaaaaugacuaccugcccccuuaagcacaguucuuuga  -3'   obs
    uggaccacauccuuccccaguacugugcuuaagaggcagguaguccuuuuaagaugcaaaaccauaugcaucuuaaaaugacuaccugcccccuuaagcacaguucuuuga        exp
    .(((.....)))......((.((((((((((((.(((((((((((.(((((((((((.......)))))))))))).)))))))))).))))))))))))).)).....
```

reads	mm	sample
....ggcagguaguccuuuuaagaug....	1	0	seq
....cagguaguccuuuuaagau....	1	0	seq
....cagguaguccuuuuaagaug....	2	0	seq
....augUaucuuaaaaugacu....	1	1	seq
....caucuuaaaaugacuaccug....	3	0	seq
....caucuuaaaaugacuaccugcc....	4	0	seq
....aucuuaGaaugacuaccugcc....	1	1	seq
....aucuuaaaaugacuaccugcc....	2	0	seq
....aucuuaaaaugacuaccugccc....	1	0	seq
....aucuuaaaaugacuaccugcccU....	1	1	seq
....aucuuaaaaugacuaccugccccu....	3	0	seq
....ucuuaGaaugacuaccugc....	1	1	seq
....ucuuaGaaugacuaccugcc....	9	1	seq
....ucuuaaaaugacuaccugcc....	13	0	seq
....ucuuaaaaugacuaccugccc....	3	0	seq
....ucuuaaaaugacuaccugAcccu....	1	1	seq
....ucuuaaaaugacuaccugccccu....	7	0	seq
....uuaaaaugacuaccugccccu....	3	0	seq

novel-mir-candidate-85

Provisional ID	:	chr5_13444
Score total	:	52.9
Score for star read(s)	:	3.9
Score for read counts	:	46
Score for mfe	:	2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	102
Mature read count	:	83
Loop read count	:	0
Star read count	:	19

```
                    Mature                          Star
5'- gguaacgcugggagacaaguaauugaacugcucuaugcuacuguucuuuaaaacauagguaauaagaguagcacagaauaguucaguugcuagucugccgugguuauacauc  -3'   obs
    gguaacgcugggagacaaguaauugaacugcucuaugcuacuguucuuuaaaacauagguaauaagaguagcacagaauaguucaguugcuagucugccgugguuauacauc        exp
    .(((((..(((.((((.(((((((((((((.(((.(((((((.(((((........)))....)).)))))))).)))).)))))))))))))).)))).)))..)))))..... reads     mm      sample
    ....................aauugaacugcucuaugcu.......................................................................... 3         0       seq
    ....................aauugaacugcucuaugcuacu....................................................................... 74        0       seq
    ....................aauugaacugUucuaugcuacu....................................................................... 2         1       seq
    ....................Cauugaacugcucuaugcuacu....................................................................... 1         1       seq
    ....................aGuugaacugcucuaugcuacu....................................................................... 1         1       seq
    ....................aauugaacugcucuaugcuacA....................................................................... 1         1       seq
    .......................uugaacugcucuaugcuacugu.................................................................... 1         0       seq
    ..............................................................uagcacagaauaguucagu.......................... 1         0       seq
    ..............................................................uagcacagaauaguucaguug........................ 13        0       seq
    ..............................................................uagcacagaauaguucaguugU....................... 2         1       seq
    ..............................................................uagcacagaauaguucaguugc....................... 1         0       seq
    ..............................................................uagcacagaauaguucaguugA....................... 1         1       seq
    ..............................................................uagcacagaauaguucaguugcu...................... 1         0       seq
```

novel-mir-candidate-125

Provisional ID	:	chr8_20710
Score total	:	37.3
Score for star read(s)	:	3.9
Score for read counts	:	30.7
Score for mfe	:	1.6
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	72
Mature read count	:	71
Loop read count	:	0
Star read count	:	1

```
                    Mature                  Star
5'- ccaccagcuguccuccugccuucuggacuuggccugcuuuucaauucuugcauuugaaagcagacagguccagaauucugggaaaacacacuauucaccaggagugacucu  -3'    obs
    ccaccagcuguccuccugccuucuggacuuggccugcuuuucaauucuugcauuugaaagcagacagguccagaauucugggaaaacacacuauucaccaggagugacucu         exp
    .........((((((((((((((((((((..((((((((.(((.........)))))))))).))))))))))).....)))................)))))))....   reads      mm         sample
    ....................uucuggacuuggccugcuuuu.......................................................................   8          0          seq
    ....................uucuggacCuggccugcuuuuc.....................................................................   1          1          seq
    ....................uucuggacuuggGcugcuuuuc.....................................................................   1          1          seq
    ....................uucuggacuuggccugcuuuuA.....................................................................   1          1          seq
    ....................uucuggacuuggccugcuuuuc.....................................................................   27         0          seq
    ....................uucuggacuuggccugcuuuuU.....................................................................   3          1          seq
    ....................uucuggacuuggccugcuuGuca....................................................................   1          1          seq
    ....................Aucuggacuuggccugcuuuuca....................................................................   1          1          seq
    ....................uucuggacuuggccugcuuuuAa....................................................................   1          1          seq
    ....................uucuggacuuggccugcuuuucU....................................................................   4          1          seq
    ....................uucuggacuuggccugcuuuucG....................................................................   1          1          seq
    ....................uucuggacuuggccugcuuuuca....................................................................   22         0          seq
    ..........................................................aaagcagacagguccagaauuU...............................   1          1          seq
```

novel-mir-candidate-268

Provisional ID	:	chr2_6447
Score total	:	2.1
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.4
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	39
Mature read count	:	36
Loop read count	:	0
Star read count	:	3

```
                                   Star                      Mature
5'- cucugugguuuccaugucucuuucuccaucuaugucucugcauuuggggguaugugugggguucuaaacacauaccccccccaaugcagagacaacagauggagaaagauuuuc  -3'    obs
    cucugugguuuccaugucucuuucuccaucuaugucucugcauuuggggguaugugugggguucuaaacacauaccccccccaaugcagagacaacagauggagaaagauuuuc         exp
    ...................((((((((((((.(((((((((((.........))))))))))...)))))))))))..))))))))))))).....   reads      mm         sample
    ................................uaugucucugcauuuggggguaugu.......................................   1          0          seq
    ................................augucucugcauuuggggguaug.........................................   1          0          seq
    ................................ugucucugcauuuggggguaug..........................................   2          0          seq
    ................................gucucugcauuuggggguaug...........................................   1          0          seq
    ......................................................................auaccccccccaaugcagaga.....   2          0          seq
    ......................................................................auaccccccccaaugcagagac....   3          0          seq
    ......................................................................auaccccccccaaugcagagaAa...   2          1          seq
    ......................................................................auaccccccccaaugcagagaca...   14         0          seq
    ......................................................................auaccccccccaaugcagagacaa..   5          0          seq
    ......................................................................uaccccccccaaugcagagacaa...   6          0          seq
    ......................................................................uaccccccccaaugcagagacaac..   2          0          seq
    ......................................................................uaccccccccaaugcagagacaacU.   2          1          seq
```

novel-mir-candidate-158

Provisional ID	:	chr3_9542
Score total	:	24.3
Score for star read(s)	:	3.9
Score for read counts	:	18
Score for mfe	:	1.5
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	47
Mature read count	:	45
Loop read count	:	0
Star read count	:	2

Mature **Star**

```
5'- cugucauucucuagccucuuacugccacuuguagucuuccuuccuuccucuuaggguaaggacagcaacaaguggcaggcuauuaaaaaauagaagcugccuaaggagcccag  -3'   obs
    cugucauucucuagccucuuacugccacuuguagucuuccuuccuuccucuuaggguaaggacagcaacaaguggcaggcuauuaaaaaauagaagcugccuaaggagcccag        exp
    ((((.......((((((.....(((((((((.((..(((((((((.....)))).)))))..)).)))))))))))))))).....))))..(((.(....).)))....   reads   mm   sample
    ...................uacugccacuuguagucuucc.......................................................................   2       0    seq
    ...................uacugccacuuguagucuuccu......................................................................   8       0    seq
    ....................acugccacuuguagucuuc........................................................................   2       0    seq
    ....................acugccacuuguagucuucc.......................................................................   3       0    seq
    ....................Gcugccacuuguagucuuccu......................................................................   1       1    seq
    ....................acugccacuuguagucuuccu......................................................................   12      0    seq
    ....................acugccacuuguagucuuccuu.....................................................................   7       0    seq
    ....................acugccacuuguagucuuccuuU....................................................................   8       1    seq
    ....................acugccacuuguagucuuccuuA....................................................................   2       1    seq
    ..........................acuuguagucuuccuuccuuccucuCagggu.........................................................   1       1    seq
    ..............................................uaaggacagcaacaaguggc...................................................   1       0    seq
    ...............................................ggacagcaacaaguggcaggcuaA...............................................   1       1    seq
    ................................................acagcaacaaguggcagU....................................................   1       1    seq
```

novel-mir-candidate-69

Provisional ID	:	chr5_13545
Score total	:	65.4
Score for star read(s)	:	3.9
Score for read counts	:	58.2
Score for mfe	:	2.3
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	126
Mature read count	:	124
Loop read count	:	0
Star read count	:	2

Star **Mature**

```
5'- caggugccggccggaggggagccgcgagggugcucugagcccuuuugguauccgcccucugcugccagcuucaaaagggcucagagcacagccacgccccuuguccagcc  -3'   obs
    caggugccggccggaggggagccgcgagggugcucugagcccuuuugguauccgcccucugcugccagcuucaaaagggcucagagcacagccacgccccuuguccagcc        exp
    ........(((.(((((((....(((.((((((((((((((((((.....((........)).....)))))))))))))))))..)).)))))))..))).)))   reads   mm   sample
    ..................gagccgcgGgggugcucugagcccuuuuguauccgc.......................................................   1       1    seq
    ............................gggugcucugagcccuuuugu.............................................................   1       0    seq
    ............................gggugcucugagcccuuuugua............................................................   1       0    seq
    ......................................................................uucaaaagggcucagagcacagU..................   1       1    seq
    ......................................................................ucaaaagggcucagagcac......................   1       0    seq
    ......................................................................ucaaaagggcucagagcaca.....................   3       0    seq
    ......................................................................ucaaaagggcucagagcacag....................   3       0    seq
    ......................................................................ucaaaagggcucagagcacagc...................   5       0    seq
    ......................................................................ucaaaagggcucagagcacagU...................   2       1    seq
    ......................................................................ucaaaagggcucagagcacagA...................   3       1    seq
    ......................................................................ucaaaagggcucagagcacagcc..................   1       0    seq
    ......................................................................ucaaaagggcucagagcacagcU..................   2       1    seq
    .....................................................................caaaagggcucagagcac.......................   1       0    seq
    .....................................................................caaaagggcucagagcaca......................   13      0    seq
    .....................................................................caaaagggcucagagcacag.....................   13      0    seq
    .....................................................................Naaaagggcucagagcacagc....................   1       1    seq
    .....................................................................caaaagggcucagagcacagU....................   6       1    seq
    .....................................................................caaaagggcucagagcacagA....................   15      1    seq
    .....................................................................caaaagggcucagagcacagc....................   18      0    seq
    .....................................................................caaaagggcucagagcacagcU...................   6       1    seq
    .....................................................................caaaagggcucagagcacagcA...................   4       1    seq
    .....................................................................caaaagggcucagagcacagcc...................   9       0    seq
    .....................................................................caaaagggcucagagcacagccU..................   10      1    seq
    .....................................................................caaaagggcucagagcacagcAa.................   1       1    seq
    .....................................................................caaaagggcucagagcacagcGa.................   2       1    seq
    .....................................................................caaaagggcucagagcacagcca.................   1       0    seq
    .....................................................................caaaagggcucagagcacagcAac................   1       1    seq
    .....................................................................aaaagggcucagagcacagccU..................   2       1    seq
```

novel-mir-candidate-411

Provisional ID	:	chr1_608
Score total	:	1.3
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.6
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	20
Mature read count	:	20
Loop read count	:	0
Star read count	:	0

Mature **Star**

```
5'- cagagggcagaggggccaugggaggcaaacuuugagcgugucucaggagccuaaaacaugagaagccucaguuucccucucccuagaccaucugcuuauccucuccaggccauc  -3'   exp
    .((((((((((.((.....((((((.(((((..(((.((.(((((.............)))))-)))))))))).)))))).....)).)))))....)))))..........
    ....................ggaggcaaacuuugagcg.......................................................................
    ....................ggaggcaaacuuugagcguguc...................................................................
    ....................ggaggcaaacuuugagcgugucu..................................................................
    ....................ggaggcaaacuuugagcgAgucu..................................................................
```

reads	mm	sample
1	0	seq
1	0	seq
17	0	seq
1	1	seq

novel-mir-candidate-38

Provisional ID	:	chr8_21467
Score total	:	117.2
Score for star read(s)	:	3.9
Score for read counts	:	109.7
Score for mfe	:	2.6
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	227
Mature read count	:	152
Loop read count	:	0
Star read count	:	75

```
                    Mature                    Star
5'- guugcuccccaaauaccaucacaccgggggguuagagcuucaaccuccaguaugaugguauugagguuagagcuucaacuccaguguguaugguaucgggguuagagcuucaauc  -3'    obs
    guugcuccccaaauaccaucacaccgggggguuagagcuucaaccuccaguaugaugguauugagguuagagcuucaacuccaguguguaugguaucgggguuagagcuucaauc         exp
    (..(((((((..((((((((((((.(((((((.((((((.((((((.(((((....)))))))))))).)))))).)))))))).)))))))))))))..)))...))))..)....  reads     mm        sample
    ....................acaccgggggguuagagcuu.......................................................................  3         0         seq
    ....................acaccgggggguuagagcuuc......................................................................  2         0         seq
    ....................acaccgggggguuagagcuuca.....................................................................  10        0         seq
    ....................acaccgggggguuagagcuuAa.....................................................................  1         1         seq
    ....................acGccgggggguuagagcuuca.....................................................................  1         1         seq
    ....................acaccgggggguuagagcuucaU....................................................................  1         1         seq
    ....................acaccgggggguuagagcuuAaa....................................................................  1         1         seq
    ....................acaccgggggguuagagcuucaa....................................................................  11        0         seq
    ....................acaccgggggguuagagcuucaac...................................................................  18        0         seq
    ....................acaccgggggguuagagcuucaaA...................................................................  2         1         seq
    ....................acaccgggggguuagagcuucaaU...................................................................  2         1         seq
    ....................acacAgggggguuagagcuucaac...................................................................  1         1         seq
    ....................acaccgggggguuagagcuucaacc..................................................................  38        0         seq
    ....................Ccaccgggggguuagagcuucaacc..................................................................  1         1         seq
    ....................acaccgggggguuagagcuucaacA..................................................................  4         1         seq
    ....................acaccgggggguuagagcuucaaccC.................................................................  1         1         seq
    ....................caccgggggguuagagcuucaacA...................................................................  1         1         seq
    .....................ccgggggguuagagcuucaacc....................................................................  5         0         seq
    .....................ccgggggguuagaCcuucaaccu...................................................................  1         1         seq
    .....................ccgggggguuagagcuucaaccu...................................................................  32        0         seq
    .....................ccgggggguuagagcuucaaccG...................................................................  2         1         seq
    .....................ccgggggguuagagcuucaaccuU..................................................................  6         1         seq
    .....................ccgggggguuagagcuucaaccuA..................................................................  1         1         seq
    .....................cgggggguuagagcuucaaccu....................................................................  5         0         seq
    .....................cgggggguuagagcuucaaccuc...................................................................  2         0         seq
    ............................uuagagcuucaaccuccag...............................................................  4         0         seq
    ...........................uuagagcuucaaccuccagu...............................................................  2         0         seq
    ..........................................................guuagagcuucaaccuccagug..............................  1         0         seq
    ..........................................................guuagagcuucaaccuccagugA.............................  1         1         seq
    ..........................................................guuagagcuucaaccuccagugC.............................  1         1         seq
    ..........................................................gCuagagcuucaaccuccagugu.............................  1         1         seq
    ...........................................................uuagagcuucaaccuccag................................  4         0         seq
    ...........................................................uuagagcuucaaccuccagu...............................  2         0         seq
```

```
                    Mature                    Star
guugcuccccaaauaccaucacaccgggggguuagagcuucaaccuccaguaugaugguauugagguuagagcuucaacuccaguguguaugguaucgggguuagagcuucaauc
.......................................................uuagagcuucaaccuccagug.......................  6         0         seq
.......................................................uGagagcuucaaccuccagug.......................  1         1         seq
.......................................................uuagagcuucaaccuccagugu......................  5         0         seq
.......................................................uuagagcuucaaccuccaguguA.....................  3         1         seq
.......................................................uuagagcuucaaccuccagugug.....................  5         0         seq
.......................................................uuagagcuucaaccuccaAuguga....................  1         1         seq
.......................................................uuagagcuucaaccuccagugugU....................  9         1         seq
.......................................................uuagagcuucaaccuccagugugC....................  1         1         seq
.......................................................uuagagcuucaaccuccaguguga....................  34        0         seq
.......................................................uuagagcuucaacGuccaguguga....................  1         1         seq
.......................................................uuagagcuucaaccuccagugAga....................  1         1         seq
.......................................................uagagcuucaaccuccagugu.......................  1         0         seq
```

novel-mir-candidate-376

Provisional ID	:	chr2_8080
Score total	:	1.6
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.9
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	468
Mature read count	:	440
Loop read count	:	0
Star read count	:	28

Star **Mature**

```
5'- ggaaaacaaaacuuguacaaagaaaggaaguguaaacguccuuucagaugguucucuagagaaccaucucuagagaaccaucugaaagacuuuggaaagcuauucagauug  -3'   obs
    ggaaaacaaaacuuguacaaagaaaggaaguguaaacguccuuucagaugguucucuagagaaccaucucuagagaaccaucugaaagacuuuggaaagcuauucagauug        exp
    ......................(((.((...(.((((.(((.(((((((((((((((((((((((((....)))))))))))))))))))))))))).)...)).)))).....   reads   mm   sample
    ......................................cguccuuucagaugguucucua.......................................................   1       0    seq
    ......................................guccuuucagaugguucucuag.......................................................   2       0    seq
    ......................................guccuuucagaugguucuNuag.......................................................   2       1    seq
    ......................................guccuuucagaugguucucuaga......................................................   1       0    seq
    ......................................guccuuucagaugguucucuagag.....................................................   1       0    seq
    ......................................guccuuucagaugguucucuagagU....................................................   1       1    seq
    ......................................uccuuucagaugguucucuag........................................................   2       0    seq
    ......................................uccuuucagaugguucucuaga.......................................................   1       0    seq
    ......................................uccuuucagaugguucucuagaA......................................................   3       1    seq
    ......................................uccuuucagaugguucucuagag......................................................   1       0    seq
    .....................................cuuucagaugguucucuagag........................................................   1       0    seq
    ......................................uuucagaugguucucuagaga.......................................................   3       0    seq
    ......................................uuucagauggGucucuagaga.......................................................   1       1    seq
    ......................................uuucagaugguucucuagagaa......................................................   1       0    seq
    ......................................uuucagaugguucucuagagaaU.....................................................   1       1    seq
    ......................................uuucagauggAucucuagagaac.....................................................   1       1    seq
    ......................................uuucagaugguucucuagagaac.....................................................   1       0    seq
    ......................................uuucagaugguucucuagagaacA....................................................   1       1    seq
    ......................................uucagaugguucucuagaga........................................................   1       0    seq
    ......................................uucagaugguucucuagagaa.......................................................   1       0    seq
    ......................................ucagaugguucucuagag..........................................................   1       0    seq
    ...........................................................accaucucuagagaaccaucugaa...............................   1       0    seq
    ............................................................ccaucucuagagaaccaucu...............................   1       0    seq
    ............................................................ccaucucuagagaaccaucuga.............................   1       0    seq
    ............................................................ccaucucuagagaaccaucugU.............................   1       1    seq
    ...........................................................aucucuagagaaccaucugaaa..............................   4       0    seq
    ...........................................................aucucuagagaaccaucugaaU..............................   2       1    seq
    ...........................................................aucucuagagaaccaucugaagCcu...........................   1       1    seq
    ...........................................................aucucuagagaaccaucugaaagacuuuggaaagcuauu.............   1       0    seq
    ............................................................ucucuagagaaccaucugaaagU............................   1       1    seq
    ............................................................ucucuagagaaccaucugaaaAa............................   1       1    seq
    ...........................................................cucuagagaaccaucugaaa................................   1       0    seq
    ...........................................................cucuagagaaccaucugaaag...............................   3       0    seq
```

Star **Mature**

```
ggaaaacaaaacuuguacaaagaaaggaaguguaaacguccuuucagaugguucucuagagaaccaucucuagagaaccaucugaaagacuuuggaaagcuauucagauug
.......................................................cucuagagaaccaucugaaagU.......................   1   1   seq
.......................................................cucuagagaaccaucugaaagC.......................   2   1   seq
.......................................................ucuagagaaccaucugaaagaA.......................   1   1   seq
.......................................................ucuagagaaccaucugaaagac.......................   11  0   seq
.......................................................ucuagagaaccaucugaaagacu......................   2   0   seq
.......................................................ucuagagaaccaucugaaagacG......................   1   1   seq
.......................................................cuagagaaccaucugaaaga........................   3   0   seq
.......................................................cuGgagaaccaucugaaaga........................   1   1   seq
.......................................................cuagagaaccaucugaaaNac.......................   2   1   seq
.......................................................cuagagaaccaucugaaagac.......................   30  0   seq
.......................................................cuagagaaccaucCgaaagacu......................   1   1   seq
.......................................................cAagagaaccaucugaaagacu......................   1   1   seq
.......................................................cuagagaaccaucugaaagacu......................   128 0   seq
.......................................................Auagagaaccaucugaaagacu......................   1   1   seq
.......................................................cuagagaaccaucugaaagaUu......................   2   1   seq
.......................................................cuagagaaccaucugaaaNacu......................   1   1   seq
.......................................................cuagagaaccaucugaaagacA......................   2   1   seq
.......................................................cuagagaaUcaucugaaagacu......................   1   1   seq
.......................................................cuagagaaccaucugaaagacuu.....................   5   0   seq
.......................................................uagagaaccaucugaaagac........................   12  0   seq
.......................................................uagagaaccaucugaaagaA........................   1   1   seq
.......................................................uagagaaAcaucugaaagacu......................   1   1   seq
.......................................................uagagaaccaucugaaagacu......................   69  0   seq
.......................................................uagagaaccaucugaaagNcu......................   1   1   seq
.......................................................uagagaaccaucugaaagacA......................   2   1   seq
.......................................................uagagaaccaucugaaagaAu......................   1   1   seq
.......................................................uagagaaccaucugUaagacuu.....................   1   1   seq
.......................................................uagagaaccaucugaaagacuA.....................   4   1   seq
.......................................................uagagaaccaucugaaagacuu.....................   101 0   seq
.......................................................uagagaaccaucugaaagacuG.....................   1   1   seq
.......................................................uagagaaccaucugaaagacuuA....................   4   1   seq
.......................................................uagagaaccaucugaaagacuuG....................   1   1   seq
.......................................................uagagaaccaucugaaagacuuu....................   9   0   seq
.......................................................agagaaccaucugaaagacu.......................   4   0   seq
.......................................................agagaaccaucugaaagacuu......................   9   0   seq
.......................................................agagaaccaucuCaaagacuuu.....................   1   1   seq
.......................................................agagaaccaucugaaagacuuu.....................   15  0   seq
.......................................................agagaaccaucugaaagaUuuu.....................   1   1   seq
.......................................................Uagaaccaucugaaagacuuu......................   1   1   seq
.......................................................aaccaucugCaagacuuu.........................   1   1   seq
```

novel-mir-candidate-68

Provisional ID	:	chr11_26182
Score total	:	65.2
Score for star read(s)	:	3.9
Score for read counts	:	58.2
Score for mfe	:	2.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	126
Mature read count	:	92
Loop read count	:	0
Star read count	:	34

```
                    Mature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Star
ucgcaacccuggcacugauagcuggaugacccugacaagcuguaucucccuugaacuucgcguuccuucgcugggguaugaagacacagcuugucaagaucauccagcuau
.....gcuugucaagaucauccagc...  2  0  seq
.....Ucuugucaagaucauccagcu..  1  1  seq
.....gcuugucaGgaucauccagcu..  1  1  seq
.....gcuugucaagaucauccagcu..  7  0  seq
.....cuugucaagaucauccagcu..  13  0  seq
.....Uuugucaagaucauccagcua.  1  1  seq
.....cuugucaagaucauccagcuaA  2  1  seq
.....cuugucaagaucauccagcuau  1  0  seq
.....cuugucaagaucauccagcuCu  1  1  seq
```

```
                    Mature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Star
5'- ucgcaacccuggcacugauagcuggaugacccugacaagcuguaucucccuugaacuucgcguuccuucgcugggguaugaagacacagcuugucaagaucauccagcuau -3'  obs
ucgcaacccuggcacugauagcuggaugacccugacaagcuguaucucccuugaacuucgcguuccuucgcugggguaugaagacacagcuugucaagaucauccagcuau  exp
..((.....))....((((((((((.(.(((((((((.(((...(((.(((((((((.....))).)))))).)))))).))))))))))).).)))))))))))))  reads  mm  sample
.....acccuggcaUugauagcug.....  1  1  seq
.....acugauagcuggaugacccu.....  1  0  seq
.....acugauagcuggaugacccuga.....  2  0  seq
.....auagcuggaugacccugacaag.....  1  0  seq
.....uagcuggaugacccugacaag.....  5  0  seq
.....uagcuggaugacccugacaagA.....  1  1  seq
.....uagcuggaugacccugacaagU.....  1  1  seq
.....uagcuggaugacccugacaagc.....  9  0  seq
.....uagcuggaugacccugacaagcu.....  1  0  seq
.....agcuggaugacccugacaag.....  4  0  seq
.....agcuggaugacccugacaagU.....  1  1  seq
.....agcuggaugacccugacaagc.....  6  0  seq
.....agcuggaugacccugacaagA.....  1  1  seq
.....agcuggaugacccugCcaagcu.....  1  1  seq
.....agcuggaugacccugacaagcu.....  11  0  seq
.....gcuggaugacccugacaag.....  1  0  seq
.....gcuggaugacccugacaagc.....  4  0  seq
.....gcuggaugacccugCcaagcu.....  1  1  seq
.....gcuggaugacccugacaagcu.....  15  0  seq
.....gcuggaugacccugacaagcug.....  2  0  seq
.....gcuggaugacccugacaagcugu.....  1  0  seq
.....gcuggauCacccugacaagcugu.....  1  1  seq
.....cuggaugacccugacaag.....  3  0  seq
.....cuggaugacccugacaagc.....  1  0  seq
.....cuggaugacccugacaagcu.....  10  0  seq
.....cuggUugacccugacaagcug.....  1  1  seq
.....cuAgaugacccugacaagcug.....  1  1  seq
.....cuggaugacccugacaagcug.....  6  0  seq
.....cuggaugacccugacaagcugu.....  4  0  seq
.....agcuugucaagaucauccag....  1  0  seq
.....agcuugucaagaucauccagc...  1  0  seq
.....agcuugucaagaucauccagU...  1  1  seq
.....agcuugucaagaucauccagcu..  2  0  seq
```

novel-mir-candidate-402

Provisional ID	:	chr19_40153
Score total	:	1.4
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.7
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	240
Mature read count	:	240
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- aaaaucuuucccauuauuucuagccugaggccuagaauugacucucauugguucagcuggagucacaugcucaugucugaaccaaugagagccugagaaaugagcugcuc  -3'   exp
    ....((((((.(((((.(((((((((...)).)))))).)))((((((((((((((((..((((.....)))).)).)))))))))))))))..)).)))))..))).....   reads    mm       sample
    ...............auuucuagccugaggccu.......................................................................   1        0        seq
    .......................ccugaggccuagaauugacucuc.........................................................   2        0        seq
    ..................................................................gcucaugucugaaccaaugaga...................   1        0        seq
    ...................................................................cucaugucugaaccaaugaga...................   1        0        seq
    ....................................................................ucaugucugaaccaauga.....................   2        0        seq
    ....................................................................ucaugucugaaccaaugag....................   1        0        seq
    ....................................................................ucaugucugaaccaaugaga...................   81       0        seq
    ....................................................................uGaugucugaaccaaugaga...................   1        1        seq
    ....................................................................ucaugucugaaccaaugagaA..................   7        1        seq
    ....................................................................ucaugucugaaccaaugagag..................   21       0        seq
    ....................................................................ucaugucugaaccaaugagagA.................   21       1        seq
    ....................................................................ucaugucugaaccaaugagagc.................   53       0        seq
    ....................................................................ucaugucugaaccaaugagagcG................   1        1        seq
    ....................................................................ucaugucugaaccaaugagagcA................   9        1        seq
    ....................................................................ucaugucugaaccaaugagagcU................   5        1        seq
    ....................................................................ucaugucugaaccaaugagagcc................   21       0        seq
    ....................................................................ucaugucugaaccaaugagagccA...............   3        1        seq
    ....................................................................ucaugucugaaccaaugagagcAu...............   1        1        seq
    ....................................................................ucaugucugaaccaaugagagccu...............   7        0        seq
    ....................................................................ucaugucugaaccaaugagagccuU..............   1        1        seq
    ....................................................................caugucugaaccaaugagagc.................   2        0        seq
    ....................................................................augucugaaccaaugagaAccu................   1        1        seq
```

novel-mir-candidate-273

Provisional ID	:	chr1_4232
Score total	:	2
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.3
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	1200
Mature read count	:	1187
Loop read count	:	0
Star read count	:	13

```
                                   Star                                   Mature
5'- ugcugaauguaaauuggguuuugucuuucuggaaaguaagucagcccuaaguuuaaauagcccagaaaauuuagagcugaauuacuuuccagaaagauagagccaauuuucuu  -3'    obs
    ugcugaauguaaauuggguuuugucuuucuggaaaguaagucagcccuaaguuuaaauagcccagaaaauuuagagcugaauuacuuuccagaaagauagagccaauuuucuu         exp
    ..........(((((((((((((((((((((((((((((.(((((.(((((((((.............)))))))))).)))))).)))))))))))))))))))))))))))))....   reads      mm         sample
    ....gaauguaaauuggguuuugucuuucuggaaagu.......................................................................................  1          0          seq
    ..........aaGuuggguuuugucuuucu.............................................................................................  1          1          seq
    ........................uuucuggaaaguaagucagcc.................................................................................  2          0          seq
    ........................uuucuggaaaguaagucagcccu...............................................................................  2          0          seq
    ........................uucuggaaaguaagucagcc...................................................................................  3          0          seq
    ........................uucuggaaaguaagucagccU..................................................................................  1          1          seq
    ........................uucuggaaaguaagucagccc..................................................................................  3          0          seq
    ........................uucuggaaaguaagucagcccu.................................................................................  1          0          seq
    ........................uucuggaaaguaagucagcccuaU...............................................................................  1          1          seq
    ........................ucuggaaaguaagucagc.....................................................................................  1          0          seq
    ........................ucuggaaaguaagucagcc....................................................................................  2          0          seq
    ........................ucuggaaaguaagucagccc...................................................................................  1          0          seq
    ........................ucuggaaaguaagucagcccu..................................................................................  5          0          seq
    ........................ucuggaaaguaagucagcccua.................................................................................  2          0          seq
    ........................ucuggaaaguaagucagcccuaaA...............................................................................  1          1          seq
    ........................ucuggaaaguaaUucagcccuaagu..............................................................................  1          1          seq
    ...........................................................cagaaaauuuagagcugaauu.............................................  1          0          seq
    ............................................................agaaaauuuagagcugaauuacu..........................................  2          0          seq
    ...........................................................aUaaaauuuagagcugaauuacuuuccagaaagau...............................  1          1          seq
    ..............................................................aaaauuuagagcugaauu.............................................  1          0          seq
    ..............................................................aaaaCuuagagcugaauu.............................................  1          1          seq
    ................................................................uuuagagcugaauuacuuuc.........................................  1          0          seq
    ................................................................uuuagagcugaauuacuuucc........................................  2          0          seq
    ..................................................................uuagagcugaauuacuuu..........................................  2          0          seq
    ..................................................................uuagagcugaauuacuuuc.........................................  2          0          seq
    ..................................................................uuagagcugaauuacuuuU.........................................  1          1          seq
    ..................................................................uuagagcugaauuacuuucca.......................................  5          0          seq
    ..................................................................uuagagcugaauuacuuuAcag......................................  1          1          seq
    ..................................................................uuagagcugaauuacuuuccag......................................  18         0          seq
    ..................................................................uuagagcugaauuacuuuccagG.....................................  1          1          seq
    ..................................................................uuagagcugaauuacuuuUcaga.....................................  1          1          seq
    ..................................................................uuagagcugaauuacuuuNcaga.....................................  1          1          seq
    ...................................................................Cuagagcugaauuacuuuccaga.....................................  3          1          seq
```

```
                                   Star                                   Mature
ugcugaauguaaauuggguuuugucuuucuggaaaguaagucagcccuaaguuuaaauagcccagaaaauuuagagcugaauuacuuuccagaaagauagagccaauuuucuu
.......................................................uuagagcugaauuacuuuccaga.....  100        0          seq
.......................................................uuagagcugaUuuacuuuccaga.....  2          1          seq
.......................................................uuagagcugaauuacuuuccagaU....  1          1          seq
.......................................................uuagagcugaauuacuuuccagaa.....  1          0          seq
.......................................................uagagcugaauuacuuuc...........  4          0          seq
.......................................................uagagcugaauuacuuucc..........  2          0          seq
.......................................................uagagcugaauuacuuucca.........  3          0          seq
.......................................................uagagcugaauuacuuuccag........  85         0          seq
.......................................................uagagcugaauuacuuuAcag........  1          1          seq
.......................................................uagagcuAaauuacuuuccag........  1          1          seq
.......................................................uagagcugaauuaAuuuccag........  1          1          seq
.......................................................uagagcugaauuacuuuccaU........  1          1          seq
.......................................................uagagcugaauuacuuucAag........  2          1          seq
.......................................................uagagcugaauuacuuuccagG.......  1          1          seq
.......................................................uagagcugaGuuacuuuccaga.......  1          1          seq
.......................................................uagagcugaauuacuuuccUga.......  1          1          seq
.......................................................uagagcugaauuacuuuccagU.......  7          1          seq
.......................................................uagagcugaauuacuuucAaga.......  7          1          seq
.......................................................uagagcugaauuacuuuccGga.......  1          1          seq
.......................................................uagagcugaauuacuuuccaga.......  867        0          seq
.......................................................uagagcugaauuacuuAccaga.......  1          1          seq
.......................................................uagagcugaauCacuuuccaga.......  1          1          seq
.......................................................uagagcCgaauuacuuuccaga.......  1          1          seq
.......................................................uagagcugGauuacuuuccaga.......  1          1          seq
.......................................................uagagcugaauuacuuucGaga.......  2          1          seq
.......................................................uaAagcugaauuacuuuccaga.......  1          1          seq
.......................................................uagagAugaauuacuuuccaga.......  1          1          seq
.......................................................uagagcugaauuaAuuuccaga.......  1          1          seq
.......................................................uagagcugaauuacuuuccaAa.......  1          1          seq
.......................................................Gagagcugaauuacuuuccaga.......  1          1          seq
.......................................................Nagagcugaauuacuuuccaga.......  1          1          seq
.......................................................uagagcugaauuacuuucNaga.......  7          1          seq
.......................................................uagUgcugaauuacuuuccaga.......  1          1          seq
.......................................................uagagcugaauuaUuuuccaga.......  1          1          seq
.......................................................uagagcugaauuacuuuGcaga.......  2          1          seq
.......................................................uaCagcugaauuacuuuccaga.......  1          1          seq
.......................................................uagCgcugaauuacuuuccagaa......  1          1          seq
.......................................................uagagcugaauuacuuuccagaG......  1          1          seq
.......................................................uagagcugaauuacuuuccagaa......  28         0          seq
.......................................................uagagcugaauuacuuuccagaU......  4          1          seq
.......................................................uagagcugaauuacuuuccagaGa.....  1          1          seq
.......................................................gagcugaauuacuuuccagU.........  1          1          seq
```

novel-mir-candidate-243

Provisional ID	:	chr10_24854
Score total	:	2.3
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.6
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	123
Mature read count	:	98
Loop read count	:	0
Star read count	:	25

```
                    Star                    Mature
5'- uaugccauuugauuaaaagcaacaugaggcaggccauuccccaucagaugaguccuagcaguuugggcccaucugauggggaauggccugccuccuguggugcgagugccc  -3'   obs
    uaugccauuugauuaaaagcaacaugaggcaggccauuccccaucagaugaguccuagcaguuugggcccaucugauggggaauggccugccuccuguggugcgagugccc        exp
    ...................((((((.(((((((((((((((((((((((((.((((.........)))).))))))))))))))))))))))))).))).)).)))........  reads   mm   sample
    ...............................gcaggccauuccccaucagau..............................................................  1       0    seq
    ...............................caggccauuccccaucag....................................................................  3       0    seq
    ...............................caggccauuccccaucaga...................................................................  3       0    seq
    ...............................caggccauuccccaucagau..................................................................  1       0    seq
    ...............................caggccauuccccaucagaA.................................................................  1       1    seq
    ...............................ggccauuccccaucagauga..................................................................  1       0    seq
    ...............................ccauuccccaucagauga....................................................................  2       0    seq
    ...............................ccauuccccaucagaugaC...................................................................  4       1    seq
    ...............................ccauuccccaucagaugag...................................................................  5       0    seq
    ...............................ccauuccccaucagaugagu..................................................................  1       0    seq
    ...............................ccauuccccaucagaugagA..................................................................  2       1    seq
    ...............................auuccccaucagaugagucc..................................................................  1       0    seq
    ...........................................................ugggcccaucugauggggaaug...................................  2       0    seq
    ...........................................................cccaucugauggggaauggc.....................................  1       0    seq
    ...........................................................cccaucugauggggaauggcU....................................  1       1    seq
    ...........................................................cccaucugauggggaauggcc....................................  9       0    seq
    ...........................................................cccaucugauggggaauggccu...................................  1       0    seq
    ...........................................................cccaucugauggggaauggccuA..................................  2       1    seq
    ...........................................................cccaucugauggggaauggccug..................................  2       0    seq
    ...........................................................cccaucugauggggaauggccugA.................................  3       1    seq
    ...........................................................cccaucugauggggaauggccugU.................................  3       1    seq
    ...........................................................cccaucugauggggaauggccugAc................................  1       1    seq
    ...........................................................ccaucugauggggaauggccugA..................................  2       1    seq
    ...........................................................caucugauggggaauggccu.....................................  1       0    seq
    ...........................................................caucugauggggaauggccug....................................  3       0    seq
    ...........................................................caucugauggggaauggccugc...................................  8       0    seq
    ...........................................................caucugauggggaauggccugA...................................  3       1    seq
    ...........................................................caucugauggggaauggccugU...................................  13      1    seq
    ...........................................................caucugauggggaauggccugcA..................................  1       1    seq
    ...........................................................caucugauggggaauggccugcU..................................  1       1    seq
    ...............................................................aucugauggggaauggcc....................................  1       0    seq
    ...............................................................aucugauggggaauggccugU.................................  4       1    seq
    ...............................................................aucugauggggaauggccugcc................................  1       0    seq
```

```
                    Star                    Mature
uaugccauuugauuaaaagcaacaugaggcaggccauuccccaucagaugaguccuagcaguuugggcccaucugauggggaauggccugccuccuguggugcgagugccc
.......................................................................ucugauggggaauggccu.......................  2       0    seq
.......................................................................ucugauggggaauggccug......................  2       0    seq
.......................................................................ucugauggggaauggccugA.....................  2       1    seq
.......................................................................ucugauggggaauggccugU.....................  2       1    seq
.......................................................................ucugauggggaauggccugc.....................  3       0    seq
.......................................................................ucugauggggaauggccugcU....................  1       1    seq
.......................................................................ucugauggggaauggccugcc....................  1       0    seq
.......................................................................ucugauggggaauggccugcA....................  1       1    seq
.......................................................................ucugauggggaauggccugccA...................  1       1    seq
.......................................................................ucugauggggaauggccugccu...................  10      0    seq
.......................................................................ucugauggggaauggccugcAu...................  1       1    seq
.......................................................................ucugauggggaauggccugccuc..................  1       0    seq
.......................................................................ucugauggggaauggccugccucU.................  1       1    seq
.......................................................................ugauggggaauggccugc.......................  1       0    seq
.......................................................................ugauggggaauggccugccG.....................  1       1    seq
.......................................................................ugauggggaauggccugccu.....................  3       0    seq
.......................................................................ugauggggaauggccugccuc....................  4       0    seq
```

novel-mir-candidate-132

Provisional ID	:	chr11_26383
Score total	:	34.3
Score for star read(s)	:	3.9
Score for read counts	:	26.6
Score for mfe	:	2.7
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	64
Mature read count	:	56
Loop read count	:	0
Star read count	:	8

```
                                 Star                    Mature
5'- ggcuaguuggaggcaaagaauucucuggguuucagaggcugaauucccagugagugccuuuugaguugcauucgcugggaauucagccucugcaacccagagauagagggcc  -3'   obs
    ggcuaguuggaggcaaagaauucucuggguuucagaggcugaauucccagugagugccuuuugaguugcauucgcugggaauucagccucugcaacccagagauagagggcc        exp
    ...........(((.......((((((((((.(((((((((((((((((((((((((((((.........))))))))))))))))))))))))))).))))))))))).....)))   reads     mm        sample
    ...................................gaggcugaauucccagugagu.......................................................   5         0         seq
    ...................................gaggcugaauucccagugagug......................................................   1         0         seq
    ...................................gaggcugaauucccagugagugA.....................................................   1         1         seq
    ......................................cugaauucccagugagugA.......................................................   1         1         seq
    ......................................................................auucgcugggaauucagccu.......................   5         0         seq
    ......................................................................auucgcuggAaauucagccucu.....................   1         1         seq
    ......................................................................auucgcugggaauucagccucu.....................   6         0         seq
    ......................................................................aCucgcugggaauucagccucu.....................   1         1         seq
    ......................................................................auucgcugggaauucagccucuA....................   1         1         seq
    ......................................................................auucgcugggaauucagccucuU....................   1         1         seq
    .......................................................................uucgcugggaauucagccu.......................   1         0         seq
    .......................................................................uucgcugggaauucagccucu.....................   2         0         seq
    .......................................................................uucgcugggaauucagccucug....................   2         0         seq
    .......................................................................uucgcugggaauucagccucugU...................   14        1         seq
    .......................................................................uucgcugggaauucagccucugA...................   20        1         seq
    .......................................................................uucgcugggaauucagccucugc...................   1         0         seq
    .......................................................................uucgcugggaauucagccucugUaa.................   1         1         seq
```

novel-mir-candidate-410

Provisional ID	:	chr5_13413
Score total	:	1.3
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.6
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	29
Mature read count	:	29
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- ucuguauugugcauggaggugaaggguaaggaccaggaggucccacugggacagagaugcuccaagaaguucuacaucugugucucuagugcccccaucaauagucuuc  -3'   exp
    (((((((....)))))))))((((..(((...(((((....))))).((((((((((.(((((.............))))).)))).)))))))))..)))).........   reads    mm    sample
    ...........................................................uccaagaaguucuacaucugugucucua.....................   1        0     seq
    ..................................................................aguucuacaucugugucucuag....................   1        0     seq
    ..................................................................aguucuacaucugugucucuagA...................   1        1     seq
    ..................................................................guucuacaucugugucucuag....................   14       0     seq
    ..................................................................guucuacaucugugucucuagA...................   12       1     seq
    .................................................................ucuacaucugugucucuagA...................   1        1     seq
```

novel-mir-candidate-261

Provisional ID	:	chr16_34487
Score total	:	2.1
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.4
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	15
Mature read count	:	14
Loop read count	:	1
Star read count	:	0

Star Mature

```
5'- gcugggugccugucuuagucccagggagggggcccugcucugauggucggugcauagcagcagaggcuguccauuggagccugguucucucccuggcucucagccaugcc  -3'   exp
    ((((((.(((.............((((((((((..(((((((((.((((((.......)).....)))).)))))))))..)))))))))))))))).)))))).......   reads    mm    sample
    ...................................................ugcauagcagcagaggcugucc.....................................   1        0     seq
    ......................................................................uccauuggagccugguucucu....................   9        0     seq
    ......................................................................uccauuggagccugguucucuU...................   4        1     seq
    ......................................................................uccauuggagccugguucucuA...................   1        1     seq
```

novel-mir-candidate-167

Provisional ID	:	chr11_25498
Score total	:	20.3
Score for star read(s)	:	3.9
Score for read counts	:	13.9
Score for mfe	:	1.5
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	39
Mature read count	:	32
Loop read count	:	0
Star read count	:	7

Mature **Star**

```
5'- cccagaucuaagagacuaaggcaggaagagacgcagcagcuugucuuugauucugccaagcuucugcaucuuuucuucccuagcccuuagcgucuuucccucucugcaucauc  -3'   obs
    cccagaucuaagagacuaaggcaggaagagacgcagcagcuugucuuugauucugccaagcuucugcaucuuuucuucccuagcccuuagcgucuuucccucucugcaucauc        exp
    ...(((((((((.(.(((.((.((((((((((.((((.((((((.(.........).)))))).)))).)))))))))))).)))).)))))..))))).................   reads   mm   sample
    ....................gcaggaagagacgcagcagcu.......................................................................   1       0    seq
    ....................gcaggaagagacgcagcagcuu......................................................................   1       0    seq
    ....................gcaggaagagacgcagcagcuug.....................................................................   24      0    seq
    ....................gcaggaagagaGgcagcagcuug.....................................................................   1       1    seq
    ....................gGaggaagagacgcagcagcuug.....................................................................   1       1    seq
    ....................gcaggaagagacgcagcagcuugA....................................................................   2       1    seq
    ....................gcaggaagagacgcagcagcuugu....................................................................   1       0    seq
    ....................caggaagagacgcagcagcuug......................................................................   1       0    seq
    ..........................................................aagcuucugcaucuuuucuucU...............................   1       1    seq
    ..........................................................aagcuucugcaucuuuucuucccu.............................   1       0    seq
    ..........................................................agcuucuCcaucuuuucuucc................................   1       1    seq
    ..........................................................agcuucugcaucuuuucuuccA...............................   1       1    seq
    ..........................................................agcuucugcaucuuuucuucccc..............................   2       0    seq
    ..........................................................agcuucugcaucuuuucuucccu..............................   1       0    seq
```

novel-mir-candidate-18

Provisional ID	:	chr12_29735
Score total	:	233.6
Score for star read(s)	:	3.9
Score for read counts	:	222.9
Score for mfe	:	2.2
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	449
Mature read count	:	444
Loop read count	:	0
Star read count	:	5

Mature **Star**

```
5'- cuaauguucccuucuuugcgucuggcuccuuucuaaucacuaugucaggaugccacagugauuagacaggagccagacacaaaguugguucuuagaaaaaggaaccccaa  -3'   obs
    cuaauguucccuucuuugcgucuggcuccuuucuaaucacuaugucaggaugccacagugauuagacaggagccagacacaaaguugguucuuagaaaaaggaaccccaa        exp
    .............(((((.(((((((((((.((((((((((.((.((...)).)).)))))))))).)))))))))))).))))))((.(((((((.......))))))).)).   reads   mm   sample
    ..................cgucuggcuccuuucuaaucacu.......................................................................   1       0    seq
    ....................ucuggcuccuuucuaauc.........................................................................   2       0    seq
    ....................ucuggcuccuuucuaaucac.......................................................................   1       0    seq
    ....................ucuggcuccuuucuaaucaA.......................................................................   1       1    seq
    ....................ucuggcuccuuucuaaucUcu......................................................................   2       1    seq
    ....................ucuggcuccuuucuaaucGcu......................................................................   1       1    seq
    ....................ucuggcGccuuucuaaucacu......................................................................   1       1    seq
    ....................ucuggcuccuuucuaaucNcu......................................................................   1       1    seq
    ....................ucuggcuccuuuAuaaucacu......................................................................   1       1    seq
    ....................ucuggcuccuuucuaaucacu......................................................................   402     0    seq
    ....................ucuggcuccuuucuaaAcacu......................................................................   1       1    seq
    ....................Gcuggcuccuuucuaaucacu......................................................................   2       1    seq
    ....................ucGggcuccuuucuaaucacua.....................................................................   1       1    seq
    ....................ucuggcuccuuucuaaucacua.....................................................................   26      0    seq
    ....................ucuggcuccuuucuaaucacuau....................................................................   1       0    seq
    ..........................................................gugauuagacaggagccagac...............................   1       0    seq
    ...........................................................ugauuagacaggagccagacac..............................   1       0    seq
    ...........................................................ugauuagacaggagccagacaA.............................   1       1    seq
    ...........................................................ugauuagacaggagccagacaca............................   1       0    seq
    ...........................................................ugauuagacaggagccagacacaaaU.........................   1       1    seq
```

novel-mir-candidate-21

Provisional ID	:	chr14_32799
Score total	:	212
Score for star read(s)	:	3.9
Score for read counts	:	205.1
Score for mfe	:	2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	414
Mature read count	:	408
Loop read count	:	0
Star read count	:	6

```
                 Mature                 Star
5'- cuaccagccgcagggguuuuggcugagcugagaaccacugugcuaacuggggacacagugauuggcagcucuacaaaaaccaugcucccccgggaccccgggcuguggguuuc  -3'    obs
    cuaccagccgcagggguuuuggcugagcugagaaccacugugcuaacuggggacacagugauuggcagcucuacaaaaaccaugcucccccgggaccccgggcuguggguuuc        exp
    .....(.(((((((((((....((((((..((.((((((((((......)).)))))))..))..)))))).....)))))).......(((((....)))))))))))..)....   reads      mm         sample
    ..................uggcugagcugagaaccac.......................................................................   1          0          seq
    ..................uggcugagcugagaaccacu......................................................................   3          0          seq
    ..................uggcugagcugagaaccacug.....................................................................   14         0          seq
    ..................uggcugagcugagaaccaAug.....................................................................   1          1          seq
    ..................uggcugagcugagaaccacugA....................................................................   15         1          seq
    ..................uggcugagcugagaaccacugu.....................................................................   33         0          seq
    ..................uggcugagcugagaaccaNugu.....................................................................   1          1          seq
    ..................Gggcugagcugagaaccacugu.....................................................................   1          1          seq
    ..................uggcugagcugagaaccacuguA....................................................................   11         1          seq
    ..................uggcugagcugagaaccacuguU....................................................................   2          1          seq
    ..................uggcugagcugagaaccacugug....................................................................   19         0          seq
    ..................uggcugagcugagaaccGcugug....................................................................   1          1          seq
    ..................uggcugagcugagaaccacuguAc...................................................................   1          1          seq
    ..................uggcugagcugagaaccacugugU....................................................................   23         1          seq
    ..................uggcugagcugagaaccacugugc....................................................................   8          0          seq
    ..................uggcugagcugagaaccacugugA....................................................................   118        1          seq
    ..................uggcugagcugagaaccacugugAu...................................................................   7          1          seq
    ..................uggcugagcugagaaccacugugcA...................................................................   1          1          seq
    ..................uggcugagcugagaaccacugugUu...................................................................   2          1          seq
    ..................ggcugagcugagaaccacug......................................................................   6          0          seq
    ..................ggcugagcugagaaccacugu.....................................................................   2          0          seq
    ..................ggcugagcugagaaccacugA.....................................................................   2          1          seq
    ..................ggcugagcugagaacUacugug....................................................................   3          1          seq
    ..................ggcugagcuAagaaccacugug....................................................................   1          1          seq
    ..................ggcugagcugagaaccacugug....................................................................   3          0          seq
    ..................ggcugagcugagaaccacuguA....................................................................   1          1          seq
    ..................ggcugagcugagaaccacugugA....................................................................   35         1          seq
    ..................ggcugagcugagaaccacugugU....................................................................   3          1          seq
    ..................ggcugagcugagaaccacugugcA...................................................................   1          1          seq
    ..................ggcugagcugagaaccacugugAu...................................................................   1          1          seq
    ..................ggcugagcugagaaccacugugAua..................................................................   1          1          seq
    ...................gcugagcugagaaccacug.......................................................................   2          0          seq
    ...................gcugagcugagaaccacugu......................................................................   1          0          seq
```

```
                 Mature                 Star
cuaccagccgcagggguuuuggcugagcugagaaccacugugcuaacuggggacacagugauuggcagcucuacaaaaaccaugcucccccgggaccccgggcuguggguuuc
...................gcugagcugagaaccacugA.......................................................................   1          1          seq
...................gcugagcugagaaccacugug......................................................................   1          0          seq
...................gcugagcugagaaccacugugA.....................................................................   13         1          seq
...................gcugagcugagaaccacugugU.....................................................................   3          1          seq
...................gcugagcugagaaccacugugc.....................................................................   2          0          seq
...................gcugagcugagaaccacugugAu....................................................................   1          1          seq
...................cugagcugagaaccacug.........................................................................   4          0          seq
...................cugagcugagaaccacugugc......................................................................   6          0          seq
...................cugagcugagaaccacugugU......................................................................   4          1          seq
...................cugagcugagaaccacugugA......................................................................   23         1          seq
...................cugagcugagaaccacugugcu.....................................................................   3          0          seq
...................cugagcugagaaccacugugcA.....................................................................   3          1          seq
...................cugagcugagaaccacugugcAa....................................................................   9          1          seq
...................cugagcugagaaccacugugcuU....................................................................   1          1          seq
...................cugagcugagaaccacugugcAaa...................................................................   1          1          seq
...................cugagcugagaaccacugugcuaG...................................................................   1          1          seq
...................cugagcugagaaccacugugcuaa...................................................................   2          0          seq
...................cugagcugagaaccacugugcuGa...................................................................   1          1          seq
...................cugagcugagaaccacugugcuaaU..................................................................   1          1          seq
...................cugagcugagaaccacugugcuaaA..................................................................   3          1          seq
.......................Uugagaaccacugugcua......................................................................   1          1          seq
.......................................cagugaAuggcagcucuacaa...................................................   1          1          seq
.......................................cagugauuggcagcucuacaa...................................................   1          0          seq
.......................................cagugauuggcagcucuacaaa..................................................   2          0          seq
.......................................cagugauuggcagcucuacaaaa.................................................   2          0          seq
```

novel-mir-candidate-422

Provisional ID	:	chr1_2880
Score total	:	1.2
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.5
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	305
Mature read count	:	177
Loop read count	:	0
Star read count	:	128

Star **Mature**

```
gugggagggggcacugccugcggaaggguaggauuagaucauuagcucagugaccucccuaggguuucgaugugcuauguucucauccuacaguugguuugguaaugaucugca
```

Star **Mature**

```
5'- gugggagggggcacugccugcggaaggguaggauuagaucauuagcucagugaccucccuaggguuucgaugugcuauguucucauccuacaguugguuugguaaugaucugca  -3'   obs
    gugggagggggcacugccugcggaaggguaggauuagaucauuagcucagugaccucccuaggguuucgaugugcuauguucucauccuacaguugguuugguaaugaucugca        exp
    ....(.((..((.((((.((.((..(((((((.(((.(((.(((.((..(((((....)))))....)).)))))).)))).)))))))..))).)).))))..)).)))).).   reads   mm   sample
    .............cugccugcggaagguaggauuagaucauuagcucagugaccu...............................................................   1       0    seq
    .............cugccugcggaagguaggauuagaucauuagcucagugaccuccu............................................................   1       0    seq
    ..............ugccugcggaagguaggauuagaucauuagcucaguga...............................................................   1       0    seq
    ..................ugcggaagguaggauuagaucauuagcucaguga...............................................................   1       0    seq
    ..................gcggaagguaggauuagau..............................................................................   1       0    seq
    ...................gcggaagguaggauuagaucauuagcucagugaccucc...........................................................   1       0    seq
    .......................Cagguaggauuagaucauuagcu.....................................................................   1       1    seq
    .......................Cgguaggauuagaucauuagcuca....................................................................   1       1    seq
    ........................uaggauuagaucauuagc.........................................................................   2       0    seq
    ........................uaggauuagaucauuagcu........................................................................   47      0    seq
    ........................uaggauuagaucauAagcu........................................................................   1       1    seq
    ........................uaggauuagaucauuagcuA.......................................................................   2       1    seq
    ........................uaggauuagaucauuagcuc.......................................................................   57      0    seq
    ........................uaggGuuagaucauuagcuc.......................................................................   1       1    seq
    ........................uaggauuagaucauuNgcuc.......................................................................   1       1    seq
    ........................uaggauuagaucauuagcucU......................................................................   4       1    seq
    ........................uaggauuagaucauuagcuca......................................................................   8       0    seq
    ........................uaggauuagaucauuagcucagu....................................................................   2       0    seq
    ........................uaggauuagaucauuagcucaguga..................................................................   1       0    seq
    ........................uaggauuagaucauuagcucagugaccucccu...........................................................   1       0    seq
    ...............................auuagaucauuagcucagugacc.............................................................   1       0    seq
    ...............................................................guuucgaugugcuauguucucauccuacaguugguu...............   1       0    seq
    ...............................................................ugGuauguucucauccuaca...............................   1       1    seq
    ...............................................................ugcuauguucucauccuaca...............................   3       0    seq
    ...............................................................ugcuauguucucauccuacag..............................   10      0    seq
    ...............................................................ugcuauguucucauccuacagu.............................   150     0    seq
    ...............................................................ugcuauguucucauccuaNagu.............................   1       1    seq
    ...............................................................uUcuauguucucauccuacagu.............................   1       1    seq
    ...............................................................ugcuauguucucauccuaGagu.............................   1       1    seq
    ...............................................................ugcuauguucucaucAuacagu.............................   1       1    seq
    ...............................................................ugcuauguucucauccuacaguu............................   2       0    seq
    ...............................................................ugcuauguucucauccuacaguA............................   7       1    seq
    ...................................................................uacaguuggguuugguaaugau.....                         1       0    seq
```

novel-mir-candidate-355

Provisional ID	:	chr2_5720
Score total	:	1.7
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	31
Mature read count	:	29
Loop read count	:	2
Star read count	:	0

Mature Star

```
5'- ccccagugcacacugcuuuauuguguccaguuguuggggagauguguaagcuuggcuccccucagccacugcugacaccaggaagcagggagaccauagagggcugccuca  -3'   exp
    .....((...(.(((((((...(((((((((.((((((((((..((....)).....)))))))))).))))..)))))...)))))))))...)).....((((....)))).
    ....................uuguguccaguuguuggg.....................................................................
    ....................uuguguccaguuguuggguU...................................................................
    ....................uuguguccaguuguuggggga..................................................................
    ....................uuguguccaguuUuuggggga..................................................................
    ....................uuguguccaguuguuggggaU..................................................................
    ....................uuguguccaguuguuggggag..................................................................
    ....................uuguguccaguuguuggggagU.................................................................
    ....................uuguguccaguuguuggggaga.................................................................
    ....................uuguguccaguuguuggggagaA................................................................
    ....................uuguguccaguuguuggggaAau................................................................
    ........................................gauguguaagcuuggcuc...................................................
```

reads	mm	sample
2	0	seq
1	1	seq
10	0	seq
1	1	seq
3	1	seq
4	0	seq
4	1	seq
2	0	seq
1	1	seq
1	1	seq
2	0	seq

novel-mir-candidate-314

Provisional ID	:	chr4_10871
Score total	:	1.9
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	32
Mature read count	:	30
Loop read count	:	2
Star read count	:	0

Star Mature

```
5'- ggccccuucugcagcaccucc ucuaaguggugcccugugcaggg gcucuagggcucucuaccugugccu agcccaggaugaaacucugaca cgcugugcugcugggaaugg  -3'   exp
...((.(((((((((((..(.((..(((..(((((((.(((.((((.(((((.........)))))).)))).)))))))))..))).))...)..)))))))..)))).))   reads    mm    sample
.................................................gcucucuaccuggCgccu.......................................   2        1     seq
.............................................................agcccaggaugaaacucugac.....................   1        0     seq
.............................................................agcccaggaugaaacucugaca....................   19       0     seq
.............................................................agcccaggaugaaacucuUaca....................   1        1     seq
.............................................................agcccaggaAgaaacucugaca....................   1        1     seq
.............................................................gcccaggaugaaacucugaca.....................   7        0     seq
.............................................................cccaggaugaaacucuga........................   1        0     seq
.......................................................................................Ucugugcugcugggaaug.   1        1     seq
```

novel-mir-candidate-260

Provisional ID	:	chr20_41871
Score total	:	2.2
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.5
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	24
Mature read count	:	24
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- ugaagguaagaugacccuggacuaaucuuccaacuagcagagcacaagcacuccugauaagagauggccuuaucagaagugcuuguucucugcuaguuggaagauuaaauugac  -3'    exp
    ....(((......)))......((((((((((((((((((((.(((((((((.(((((((((.....)))))))).)))))))))..)))))))))))))))))))).......
    ...........................................................aucagaagugcuuguucucugc.....................
    ...........................................................aucagaagugcuuguucucugcu....................
    ...........................................................ucagaagugcuuguucucugc.....................
    ...........................................................ucagGagugcuuguucucugcu....................
    ...........................................................ucagaagugcuuguucucugcu....................
    ...........................................................ucGgaagugcuuguucucugcu....................
    ...........................................................ucagaagugcuuguucucugcuU...................
    ...........................................................cGgaagugcuuguucucugcu....................
    ...........................................................cagaagugcuuguucucugcu....................
```

reads	mm	sample
2	0	seq
1	0	seq
1	0	seq
2	1	seq
14	0	seq
1	1	seq
1	1	seq
1	1	seq
1	0	seq

novel-mir-candidate-160

Provisional ID	:	chr16_35957
Score total	:	22.6
Score for star read(s)	:	3.9
Score for read counts	:	15.9
Score for mfe	:	1.7
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	43
Mature read count	:	21
Loop read count	:	0
Star read count	:	22

Mature **Star**

```
5'- uguugauacuugacaaaaagacgugaccagaagaagacaagcgaguguauuccuugUUUGUCUUCCUCUGAUCACACCUgucaacaguucaggugagcaucuggagccuugc  -3'   obs
    uguugauacuugacaaaaagacgugaccagaagaagacaagcgaguguauuccuugUUGUCUUCCUCUGAUCACACCUgucaacaguucaggugagcaucuggagccuugc        exp
    ((((((((((......)))..((((.((((.(((((((((((((.(....)))))))))))))).)))).)))...)))))))).(((((((....)))))))).......   reads   mm   sample
    ..................agacgugaccagaagaagaca.......................................................................   1       0    seq
    ....................acgugaccagaagaagacaag.....................................................................   1       0    seq
    ....................acgugaccagaagaagacaagU....................................................................   1       1    seq
    ....................acgugaccagaaUaagacaagc....................................................................   1       1    seq
    ....................acgugaccagaagaagacaagc....................................................................   16      0    seq
    ....................acgugaccagaagaagacaagcU...................................................................   1       1    seq
    ..........................................................uuugucuuccucugaucacaccu...............................   9       0    seq
    ..........................................................uugucuuccucugaucacaccu................................   9       0    seq
    ..........................................................uugucuuccucugaucacaccuU...............................   1       1    seq
    ..........................................................uugucuuccucugaucacaccug...............................   1       0    seq
    ..........................................................ugucuuccucugaucacacc..................................   1       0    seq
    ..........................................................ugucuuccucugaucacaccug................................   1       0    seq
```

novel-mir-candidate-122

Provisional ID	:	chr18_39295
Score total	:	38.7
Score for star read(s)	:	3.9
Score for read counts	:	36.8
Score for mfe	:	0.8
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	84
Mature read count	:	83
Loop read count	:	0
Star read count	:	1

```
                    Mature                 Star
5'- cuaaaaccaguuuuccaaguaaguuccauaaauucucuggcugugguagcuuccugcggcagaggguuuucuggaaccagcuuuguuaacugaagaaguacugaggcucuuagcug  -3'   obs
    cuaaaaccaguuuuccaaguaaguuccauaaauucucuggcugugguagcuuccugcggcagaggguuuucuggaaccagcuuuguuaacugaagaaguacugaggcucuuagcug        exp
    .......(((((..(.((((..(((((((.((.(((((((.(((((........)))))))))).))..)))))))..))))).).)..)))))........(((((...)))))...  reads   mm   sample
    ....................aaguuccauaaauucucuggcG.......................................................................  1       1    seq
    ....................aaguuccauaaauucucuggcu.......................................................................  19      0    seq
    ....................aaguuccauaaauucucuggcug......................................................................  11      0    seq
    ....................aaguuccauaUuucucuggcug......................................................................  1       1    seq
    ....................aaguuccauaaauucucuggcugu.....................................................................  31      0    seq
    ....................aaguuccauaaauucucuggcugA.....................................................................  1       1    seq
    ....................aaguuccauaaauucucuggcuguA....................................................................  3       1    seq
    ....................aaguuccauaaauucucuggcuguU....................................................................  9       1    seq
    ....................aaguuccauaaauucucuggcuguC....................................................................  1       1    seq
    ....................aaguuccauaaauucucuggcuguUu...................................................................  5       1    seq
    ....................aaguuccauaaauucucuggcuguAu...................................................................  1       1    seq
    ...................................................ccugcggcagaggguuuucuggaacc.......................................  1       0    seq
    ......................................................ggcagaggguuuucuggaaccagA.....................................  1       1    seq
    ..........................................................................gaaccagcAuuguuaacug........................  2       1    seq
    ...........................................................................aaccagcAuuguuaacug........................  2       1    seq
    ...............................................................................uuuguuaacugaagaaguacugaggcucuu.....  1       0    seq
```

novel-mir-candidate-88

Provisional ID	:	chr1_999
Score total	:	50
Score for star read(s)	:	3.9
Score for read counts	:	43
Score for mfe	:	2.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	96
Mature read count	:	92
Loop read count	:	0
Star read count	:	4

Star **Mature**

```
5'- aauuuauguugccuaauucaaauagauuaauggggaugaggcagaguaacucacaauagaacaaacaguuuugaguuacuuugccuuauccccauuaauuuuaucaaccca  -3'   obs
    aauuuauguugccuaauucaaauagauuaauggggaugaggcagaguaacucacaauagaacaaacaguuuugaguuacuuugccuuauccccauuaauuuuaucaaccca        exp
    ......................((((((((((((((((((((((((((.....((((.....))))))))))))))))))))))))))))))).........  reads   mm   sample
    ...................................gaugaggcagaguaacucacU.......................................................  3       1    seq
    ...................................gaugaggcagaguaacucaca........................................................  1       0    seq
    ......................................................................uuugaguuacuuugccuua......................  1       0    seq
    .......................................................................uuugaguuacuuugccuuau.....................  1       0    seq
    .......................................................................uuugaguuacuuugccuuauc....................  5       0    seq
    ......................................................................uuugaguuacuuugccuuauA....................  1       1    seq
    .......................................................................uuugaguuacuuugccuuaucU...................  3       1    seq
    ......................................................................Guugaguuacuuugccuuaucc...................  1       1    seq
    ......................................................................uuugaguuacuuugccuuaucc...................  18      0    seq
    .......................................................................uuugaguuacuuugccuuau.....................  1       0    seq
    .......................................................................uuugaguuacuuugccuuauc....................  3       0    seq
    ......................................................................uuugaguuacGuugccuuaucc...................  1       1    seq
    .......................................................................uuugaguuacuuugccuuaucc...................  40      0    seq
    .......................................................................uuugaguuacuuugccuuaucU...................  3       1    seq
    ......................................................................uuugaguuacuuugccuuauccc..................  6       0    seq
    .......................................................................uuugaguuacuuugccuuauccU..................  1       1    seq
    .......................................................................uuugaguuacuuugccuuaucccU.................  1       1    seq
    ......................................................................ugaguuacuuugccuuauc......................  1       0    seq
    .......................................................................ugaguuacuuugccuuauccc....................  4       0    seq
    .......................................................................ugaguuacuuugccuuaucccU...................  1       1    seq
```

novel-mir-candidate-63

Provisional ID	:	chr11_27027
Score total	:	70.6
Score for star read(s)	:	3.9
Score for read counts	:	60.3
Score for mfe	:	1.9
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	130
Mature read count	:	73
Loop read count	:	0
Star read count	:	57

Mature Star

```
5'- ucuuucuucacuuagcucucccuggacuucuuauuuuggcucuugagcugccugagcaaaaauaggaaguccaaggacugauaggugaagcucgucccauccaaaauccuag  -3'    obs
    ucuuucuucacuuagcucucccuggacuucuuauuuuggcucuugagcugccugagcaaaaauaggaaguccaaggacugauaggugaagcucgucccauccaaaauccuag         exp
    .....(((((((((.(..(((.(((((((((((((((.((((...........)))).))))))))))))))).)))..).))))))))).....................  reads     mm        sample
    ..................ucccuggacuucuuauuu.......................................................................  14        0         seq
    ..................ucccuggacuucuuauuuug.....................................................................  1         0         seq
    ..................ucccuggacuucuuauuuugA....................................................................  1         1         seq
    ..................ucccuggacuucuuauuuuggc...................................................................  8         0         seq
    ..................ucccuggacuucuuauuuAggcu..................................................................  1         1         seq
    ..................ucccuggacuucuuauuuuggcu..................................................................  10        0         seq
    ..................ucccuggacuucuuauuuuggcA..................................................................  1         1         seq
    ...................ccuggacuucuuauuuuggc....................................................................  2         0         seq
    ...................ccuggacuucuuauuuuggcA...................................................................  2         1         seq
    ...................ccuggacuucuuauuuuggcu...................................................................  26        0         seq
    ...................ccuggacuucuuauuuuggcuA..................................................................  1         1         seq
    ...................ccuggacuucuuauuuuggcuc..................................................................  6         0         seq
    ..........................................................gcaaaaauaggaaguccaag...........................  2         0         seq
    ..........................................................gcaaaaauaggaaguccaaggaU........................  6         1         seq
    ..........................................................caaaaauaggaaguccaagga..........................  1         0         seq
    ..........................................................caaaaauaggaaguccaaggaU........................  1         1         seq
    ..........................................................caaaaauaggaaguccaaggac.........................  5         0         seq
    ..........................................................caaaaauaggaaguccaaggacu........................  7         0         seq
    ..........................................................caaaaauaggaaguccaaggacA........................  1         1         seq
    ...........................................................aaaaauaggaaguccaaggac.........................  4         0         seq
    ...........................................................aaaaauaggaaguccaaggacu........................  20        0         seq
    ...........................................................aaaaauaggaaguccaaggacA........................  3         1         seq
    ..............................................................auaggCaguccaaggacug........................  7         1         seq
```

novel-mir-candidate-55

Provisional ID	:	chr1_3793
Score total	:	88.5
Score for star read(s)	:	3.9
Score for read counts	:	81.2
Score for mfe	:	2.4
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	171
Mature read count	:	170
Loop read count	:	0
Star read count	:	1

```
                    Mature                    Star
5'- cuaaaugaguaaacauaugcacacucaucaacugugccugacauguggcacuuuguguugcaggcacaguugaugaugugcauguguuucucaugugcauguuagcucuugua  -3'   obs
    cuaaaugaguaaacauaugcacacucaucaacugugccugacauguggcacuuuguguugcaggcacaguugaugaugugcauguguuucucaugugcauguuagcucuugua        exp
    ....(((((.(((((((((((((.(((((((((((((((((.((....((((...)))))))))))))))))))))))))))))))))))))))))(.((.......)).).....  reads   mm   sample
    ....................acacucaucaacugugccug.......................................................................  1       0    seq
    ....................acacucaucaacugugccuga......................................................................  20      0    seq
    ....................acacucaucaacugugccugaA.....................................................................  1       1    seq
    ....................acacucaucaacugugccugac......................................................................  35      0    seq
    ....................Ccacucaucaacugugccugac......................................................................  1       1    seq
    ....................acacucaucaacugugccugacG.....................................................................  2       1    seq
    ....................acacucaucaacugugccugacU.....................................................................  7       1    seq
    ....................acacCcaucaacugugccugaca.....................................................................  1       1    seq
    ....................acacucaucaacugugccNgaca......................................................................  2       1    seq
    ....................acacucaucaacugugcAugaca......................................................................  1       1    seq
    ....................acacucaucaacugugAcugaca......................................................................  1       1    seq
    ....................acacucaucaacugugccugaca......................................................................  89      0    seq
    ....................acacucaucaacugugccugaAa.....................................................................  2       1    seq
    .....................acucaucaacugugccugaca......................................................................  6       0    seq
    .....................acucaucaacugugccugacaugu...................................................................  1       0    seq
    ............................................................caggcacaguugaugaugug...............................  1       0    seq
```

novel-mir-candidate-17

Provisional ID	:	chr8_21358
Score total	:	254.5
Score for star read(s)	:	3.9
Score for read counts	:	246.9
Score for mfe	:	2.7
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	496
Mature read count	:	488
Loop read count	:	0
Star read count	:	8

```
                                   Star                                   Mature
5'- uugggagguaacugggccaaccagcucugguuccccagccuacuggaggauaagaggauauaaaggucucuuauccuccaguagacuagggagccagagcugguaauaaaag  -3'    obs
    uugggagguaacugggccaaccagcucugguuccccagccuacuggaggauaagaggauauaaaggucucuuauccuccaguagacuagggagccagagcugguaauaaaag         exp
    ......(((......)))).((((((((((((((((.((.((((((((((((((((((.........)))))))))))))))))).)).))))))))))))))))).........   reads      mm         sample
    ...................................cccagccuacuggaggauaagU.................................................   1          1          seq
    ...................................cccagccuacuggaggauaaga.................................................   1          0          seq
    ...................................cccagccuacuggaggauaagagU...............................................   1          1          seq
    ...................................ccagccuacuggaggauaaga..................................................   1          0          seq
    ...................................ccagccuacuggaggauaagag.................................................   2          0          seq
    ...................................ccagccuacuggaggauaagagU................................................   1          1          seq
    ...................................ccagccuacuggaggauaagagA................................................   1          1          seq
    ......................................................................cuuauccuccaguagacuag.......................   2          0          seq
    ......................................................................cuuGuccuccaguagacuagg......................   2          1          seq
    ......................................................................cuuGuccuccaguagacuaggg.....................   1          1          seq
    ......................................................................cuuGuccuccaguagacuaggga....................   23         1          seq
    ......................................................................cuuauccuccaguagacuaggga....................   3          0          seq
    .....................................................................uuauccuccaguagacuag........................   1          0          seq
    .....................................................................uuauccuccaguagacuagg.......................   2          0          seq
    .....................................................................uuGuccuccaguagacuagg.......................   4          1          seq
    .....................................................................uuauccuccUguagacuaggg......................   1          1          seq
    .....................................................................uuGuccuccaguagacuaggg......................   18         1          seq
    .....................................................................uuauccuccaguagacuaggA......................   1          1          seq
    .....................................................................uuauccuccaguagacuaggga.....................   90         0          seq
    .....................................................................uuGuccuccaguagacuaggga.....................   284        1          seq
    .....................................................................uuauccuccaguGgacuagggag....................   1          1          seq
    .....................................................................uuauccuccaguagacuagggaU....................   1          1          seq
    .....................................................................uuauccuccaguagacuagggaC....................   1          1          seq
    .....................................................................uuGuccuccaguagacuagggag....................   4          1          seq
    .....................................................................uuauccuccaguagacuagggaA....................   4          1          seq
    .....................................................................uuauccuccaguagacuagggag....................   3          0          seq
    .....................................................................uuauccuccaguagacuagggagU...................   2          1          seq
    .....................................................................uGuccuccaguagacuaggg.......................   1          1          seq
    .....................................................................uauccuccagGagacuaggga......................   1          1          seq
    .....................................................................uauccuccaguagacuaggga......................   5          0          seq
    .....................................................................uauccuccaguagacuagCga......................   1          1          seq
    .....................................................................uGuccuccaguagacuaggga......................   9          1          seq
    .....................................................................uGuccuccaguagacuagggag.....................   3          1          seq
```

```
                                   Star                                   Mature
uugggagguaacugggccaaccagcucugguuccccagccuacuggaggauaagaggauauaaaggucucuuauccuccaguagacuagggagccagagcugguaauaaaag
.....................................................................uauccuccaguagacuagggag.....................   5          0          seq
.....................................................................uauccuccaguagacuagggagU....................   1          1          seq
.....................................................................uauccuccaguagacuagggagA....................   3          1          seq
.....................................................................uauccuccaguagacuagggagc....................   3          0          seq
.....................................................................uGuccuccaguagacuagggagc....................   6          1          seq
.....................................................................auccuccaguagacuagggagc.....................   1          0          seq
.....................................................................Guccuccaguagacuagggagc.....................   1          1          seq
```

novel-mir-candidate-310

Provisional ID	:	chr9_23024
Score total	:	1.9
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	62
Mature read count	:	62
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- augcacuauaauuguuuuuaaaguaguuucacuuaacagguuccaagagccugagaggcaggaacagcgcuucucaggcucuuggaaucugccucagcccagugcagauca  -3'   exp
    .((((((.............((((......))))..((((((((((((((((((((((.(......)))))))))))))))))))))))).........))))))..... reads     mm        sample
    ................................cuuaacaggAuccaagag.......................................................... 1         1         seq
    ....................................aacagguuccaagUgccu...................................................... 1         1         seq
    ............................................................gcaggaacagcgcuucucaggcu............................ 1         0         seq
    ..................................................................uucucaggcucuuggaaucu..................... 1         0         seq
    ...................................................................uucucaggcucuuggaaucug.................... 19        0         seq
    ...................................................................uucucaggcucuuggaaucugA................... 3         1         seq
    ..................................................................uucucaggcucuuggaaucugc.................... 7         0         seq
    ...................................................................uucucaggcucuuggaaucugcU.................. 5         1         seq
    ...................................................................uucucaggcucuuggaaucugcc.................. 4         0         seq
    ..................................................................uucucaggcucuuggaaucugccu................. 2         0         seq
    ....................................................................ucucaggcucuuggaaucu..................... 1         0         seq
    ...................................................................ucucaggcucuuggaaucug.................... 3         0         seq
    ..................................................................ucucaggcucuuggaaucugU.................... 1         1         seq
    ...................................................................ucucaggcucuuggaaucugcc................... 3         0         seq
    ...................................................................ucucaggcucuuUgaaucugccu.................. 1         1         seq
    ..................................................................ucucaggcucuuggaaucugccu................. 4         0         seq
    ....................................................................cucaggcucuuggaaucugccu.................. 1         0         seq
    ...................................................................cGcaggcucuuggaaucugccu................... 1         1         seq
    ....................................................................ucaggcucuuggaaucugccu................... 6         0         seq
```

novel-mir-candidate-441

Provisional ID	:	chr17_37248
Score total	:	1
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.3
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	117
Mature read count	:	117
Loop read count	:	0
Star read count	:	0

Mature Star

```
5'- ccauuggaaaaaugaguguuaugacuaaugagauuauucuggccaagccagaaugucugguuagcauuauucuggauagacuuauaucccgcccuccuuuagggaaaacucucu  -3'    exp
    .............(((.(((((((.(((((.((((.(((((((((...)))))))))))).)))))))).....(((((......)))))..((((.....))))..)))).))).   reads      mm         sample
    ..auuggaaaaaugaguguuaugacuaaugagauuauucuggcc.....................................................................   1          0          seq
    ..............aguguuaugacuaaugagauuauucuggcc.....................................................................   1          0          seq
    ....................augacuaaugagauuauuAuggcc.....................................................................   2          1          seq
    ....................augacuaaugagauuauucuggUc.....................................................................   1          1          seq
    ....................Cugacuaaugagauuauucuggcc.....................................................................   4          1          seq
    ....................augacuaaGgagauuauucuggcc.....................................................................   1          1          seq
    ....................augacuaaugagauuauuNuggcc.....................................................................   1          1          seq
    ....................augacuaaugagauuauucuggcc.....................................................................   99         0          seq
    ....................augacuaaugagauuauucugAcc.....................................................................   1          1          seq
    .....................ugacuaaugagauuauucuggcc.....................................................................   1          0          seq
    ......................acuaaugagauuauucuggcc.......................................................................   2          0          seq
    ........................aaugagauuauucuggcc........................................................................   5          0          seq
```

novel-mir-candidate-241

Provisional ID	:	chr3_10519
Score total	:	2.3
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.6
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	343
Mature read count	:	311
Loop read count	:	0
Star read count	:	32

```
                    Mature                  Star
5'- uuucaaaagcacauauccucuguuuagcauccuguagccugcauccuacucuguaggUUGUAGGAUGCUAAACAGGGAUAUGCGCUUUUAACGGUCGUUCUGACCAGAUGA  -3'   obs
    uuucaaaagcacauauccucuguuuagcauccuguagccugcauccuacucuguagguuguaggaugcuaaacagggauaugcgcuuuuaacggucguucugaccagauga        exp
    ....((((((.((((((((((((((((((((((((((((((.......)))))))))))))))))))))))))))))))))))).)))))))...((((.....)))).......   reads   mm   sample
    ..................ucuguuuagcauccuguag.......................................................................   2       0    seq
    ..................ucuguuuagcauccuguagc......................................................................   1       0    seq
    ..................ucuguuuagcauccuguagcA.....................................................................   1       1    seq
    ..................ucuguuuagcauccGguagcc.....................................................................   1       1    seq
    ..................ucuguuuagcauccuguagcc.....................................................................   7       0    seq
    ..................ucuguuuagcauccuguagccG....................................................................   1       1    seq
    ..................ucuguuuagcauccuguagccu....................................................................   53      0    seq
    ..................ucuguuuagcauccuguaCccu....................................................................   1       1    seq
    ..................Gcuguuuagcauccuguagccu....................................................................   1       1    seq
    ..................ucuguuuagcauccuguaAccu....................................................................   1       1    seq
    ..................ucuguuuagcauccuguagccuU...................................................................   3       1    seq
    ...................uguuuagcauccuguagc.......................................................................   2       0    seq
    ...................uguuuagcauccuguagcc......................................................................   5       0    seq
    ...................uguuuagcauccuguagccu.....................................................................   23      0    seq
    ...................uguuuagcauccuguagccuU....................................................................   1       1    seq
    ...................uguuuagcauccuguagccug....................................................................   9       0    seq
    ...................uguuuagcauccuguagccugc...................................................................   94      0    seq
    ...................uguuuagcauccuguagccugU...................................................................   31      1    seq
    ...................uguuuagcauccuguagcNugc...................................................................   1       1    seq
    ...................uguuuagcauccuguagccugA...................................................................   10      1    seq
    ...................uguuuagcauccuguagcNugca..................................................................   1       1    seq
    ...................uguuuagcauccuguagccugAa..................................................................   4       1    seq
    ...................uguuuagcauccuguagccugcC..................................................................   1       1    seq
    ...................uguuuagcauccuguagccugcU..................................................................   6       1    seq
    ...................uguuuagcauccuguagccugca..................................................................   26      0    seq
    ...................uguuuagcauccuguagccugUa..................................................................   5       1    seq
    ...................uguuuagcauccuguagccugcau.................................................................   4       0    seq
    ...................uguuuagcauccuguagccugUau.................................................................   6       1    seq
    ...................uguuuagcauccuguagccugcaA.................................................................   3       1    seq
    ...................uguuuagcauccuguagccugcaG.................................................................   1       1    seq
    ...................uguuuagcauccuguagccugAau.................................................................   1       1    seq
    ....................guuuagcauccuguagccugc...................................................................   2       0    seq
    .......................uagcauccuguagccugcauccu...............................................................   1       0    seq
```

```
                    Mature                  Star
uuucaaaagcacauauccucuguuuagcauccuguagccugcauccuacucuguaggUUGUAGGAUGCUAAACAGGGAUAUGCGCUUUUAACGGUCGUUCUGACCAGAUGA
.........................cUuccuguagccugcaucc.......................................................   1       1    seq
.........................Uuccuguagccugcaucc........................................................   1       1    seq
.............................................uagguuguaggaugcuaaaA.....................................   1       1    seq
.............................................uagguuguaggaugcuaaac......................................   1       0    seq
.............................................uagguuguaggaugcuaaacag....................................   2       0    seq
.............................................uagguuguaggaugcuaaacagU...................................   3       1    seq
.............................................uagguuguaggaugcuaaacaga...................................   3       0    seq
............................................Gggguuguaggaugcuaaacaga....................................   1       1    seq
.............................................guuguuaggaugcuaaacagagA...................................   1       1    seq
.............................................uuguuaggaugcuaaacaga......................................   14      0    seq
.............................................uuguuaggaugcuaaacagU......................................   2       1    seq
.............................................uuguuaggaugcuaaacagaA.....................................   1       1    seq
.............................................uuguuaggaugcuaaacagaggU...................................   1       1    seq
.............................................uuguuaggaugcuaaacagaggau..................................   2       0    seq
```

novel-mir-candidate-163

Provisional ID	:	chr4_11526
Score total	:	20.3
Score for star read(s)	:	3.9
Score for read counts	:	13.4
Score for mfe	:	2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	38
Mature read count	:	18
Loop read count	:	0
Star read count	:	20

Mature **Star**

```
5'- agaggcagagcugcugcaggacuggaugucgggcugcaugugaauguuuguggguggcagcaaggccaugcagcucugcaguggccuuucaugggaguaggguugccaca  -3'   obs
    agaggcagagcugcugcaggacuggaugucgggcugcaugugaauguuuguggguggcagcaaggccaugcagcucugcaguggccuuucaugggaguaggguugccaca        exp
    ...(((((.(((((((((((.(((.(((((..(((((((.((........)).)))))))..)).))).))).))).))))))))))))(((((....))).)).)))))...  reads   mm   sample
    ....Acagagcugcugcaggacu.......................................................................................  1       1    seq
    ....................acuggaugucgggcugca........................................................................  14      0    seq
    ....................acuggaugucgggcugcaA.......................................................................  1       1    seq
    ....................acuggaugucgggcugcau.......................................................................  2       0    seq
    ....................acuggaugucgggcugcauU......................................................................  1       1    seq
    ....................acuggaugucgggcugcaugugaauguuuguggguggcagcaaggccau.........................................  1       0    seq
    ..........................................................cagcaaggccaugcagcucug...............................  2       0    seq
    ..........................................................cagcaaggccaugcagcucugA..............................  2       1    seq
    ..........................................................cagcaaggccaugcagcucugU..............................  2       1    seq
    ..........................................................cagcaaggccaugcagcucugc..............................  14      0    seq
```

novel-mir-candidate-129

Provisional ID	:	chr19_39733
Score total	:	34.5
Score for star read(s)	:	3.9
Score for read counts	:	28.2
Score for mfe	:	1.5
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	67
Mature read count	:	66
Loop read count	:	0
Star read count	:	1

Star **Mature**

```
5'- ucauagauccacauguccauacauagugagugugguccacuucuguuguguuaaaguggaaaagaaagacgcuaacucugcuauguguggcagcuggcacugaggacuauga  -3'   obs
    ucauagauccacauguccauacauagugagugugguccacuucuguuguguuaaaguggaaaagaaagacgcuaacucugcuauguguggcagcuggcacugaggacuauga        exp
    ((((((.(((.(((((((((((((((((((((((...((((.((.(.........).)).)))).)))))..)))).)))))))))))).......))).)).)))))))))   reads    mm       sample
    .............uguccauacauagugagugu.......................................................................   1        0        seq
    ............................................................aaagaaagacgcuaacucugcuauguguggcag...................   1        0        seq
    ............................................................aaagaaagacgcuaacucugcuauguguggcagcu.................   1        0        seq
    ...............................................................aagacgcuaacucugcuauguug.........................   1        0        seq
    ................................................................acgcuaacucugcuauguug..........................   1        0        seq
    ...............................................................cgcuaacucugcuauguug............................   2        0        seq
    ...............................................................cgcuaacucugcuauguguggc.........................   6        0        seq
    ...............................................................cgcuaacGcugcuauguguggc.........................   1        1        seq
    ...............................................................cgcuaacucugcuauguguggca........................   1        0        seq
    ...............................................................cgcuaacucugcuauguguggcag.......................   1        0        seq
    ..............................................................cuaacucugcuauguguggc...........................   1        0        seq
    ..............................................................cuaacucugcuauguguggcU..........................   1        1        seq
    ..............................................................cuaacucugcuauguguggca.........................   8        0        seq
    ..............................................................cuaacucugcuauguguggcaA........................   1        1        seq
    ..............................................................cuaacucugcuauguguggcaU........................   16       1        seq
    ..............................................................cuaacucugcuauguguggcag........................   3        0        seq
    ..............................................................cuaacucugcuauguguggcaC........................   1        1        seq
    ..............................................................cuaacucugcuauguguggcagU.......................   19       1        seq
    ..............................................................cuaacucugcuauguguggcagA.......................   2        1        seq
    ..............................................................cuaacucugcuauguguggcagUu......................   3        1        seq
```

novel-mir-candidate-113

Provisional ID	:	chr3_9954
Score total	:	41.8
Score for star read(s)	:	3.9
Score for read counts	:	35.3
Score for mfe	:	1.6
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	81
Mature read count	:	62
Loop read count	:	0
Star read count	:	19

Star Mature

```
5'- gcagcacuucauugguuuuugcuuauagaaacuguccaccuguuuaauuuucaaugucauuccaaugucauugaaagcuaaacaguuggagaauuucuaugaccaaaaaaaa  -3'   obs
    gcagcacuucauugguuuuugcuuauagaaacugucccaccuguuuaauuuucaaugucauuccaaugucauugaaagcuaaacaguuggagaauuucuaugaccaaaaaaaa        exp
    ...............((((((.(((((((((.(.((((.(((((((.(((((((((.(((....)))).)))))))))..))))))).))))).).))))))))).))))))...   reads    mm       sample
    ..........auugguuuuugcuuauagaaacugu.......................................................................   1        0        seq
    ...............................acuguccaccuguuuaauuuuca.....................................................   1        0        seq
    ...............................uguccaccuguuuaauuu..........................................................   2        0        seq
    ...............................uguccaccuguuuaauuuu.........................................................   1        0        seq
    ...............................uguccaccuguuuaauuuuc........................................................   3        0        seq
    ...............................uguccaccuguuuaauuuuca.......................................................   1        0        seq
    ...............................uguccaccuguuuaauuuucaa......................................................   1        0        seq
    ...............................uguccaccuguuuaauuuucaau.....................................................   1        0        seq
    ................................guccaccuguuuaauuuuca......................................................   1        0        seq
    ................................guccaccuguuuaauuuucaa.....................................................   3        0        seq
    ................................guccaccuguuuaauuuucaau....................................................   3        0        seq
    ................................guccaccuguuuaauuuucaaug...................................................   1        0        seq
    ................................guccaccuguuuaauuuucaauA...................................................   1        1        seq
    ................................guccaccuguuuaauuuucaaugA..................................................   1        1        seq
    ......................................................................ucauugaaagcuaaacagu.................   3        0        seq
    ......................................................................uNauugaaagcuaaacagu.................   1        1        seq
    ......................................................................ucauugaaagcuaaacaguug...............   1        0        seq
    ......................................................................ucauugaaagcuaaacaguuggAa............   1        1        seq
    .........................................................................uugaaagcuaaacaguuggag............   3        0        seq
    .........................................................................uugaaGgcuaaacaguuggaga...........   1        1        seq
    .........................................................................uugaaagcuaaacaguuggGga...........   1        1        seq
    .........................................................................uugaaagcuaaacaguugAaga...........   3        1        seq
    .........................................................................uugaaagcuaaacaguuggagU...........   1        1        seq
    .........................................................................uugaaagcuaaacaguugNaga...........   1        1        seq
    .........................................................................uugaaagcuaaacaguuggaga...........   50       0        seq
    .........................................................................uugaaagcuaaacaguuggagaa..........   1        0        seq
    ............................................................................gaaagcuaaacaguuggagaau.........   1        0        seq
```

novel-mir-candidate-121

Provisional ID	:	chr12_30112
Score total	:	38.9
Score for star read(s)	:	3.9
Score for read counts	:	31.7
Score for mfe	:	2.2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	74
Mature read count	:	48
Loop read count	:	0
Star read count	:	26

Star **Mature**

```
5'- augagccuuuccuggugcacugggcccaggu ccaggcucagggaaacugaga caguggacaagcauugag cccccuuucccugagccugcau uuguggccaguggccucauc -3'   obs
    augagccuuuccuggugcacugggcccaggu ccaggcucagggaaacugagac aguggacaagcauugag cccccuuucccugagccugcau uuguggccaguggccucauc        exp
    .............(((.(((((((.(((((((.(((((((((((((((.....(((((.....)))))).......)))))))))))))).))))).))))))))))).....   reads    mm       sample
    ................................ccaggcucagggaaacugag.......................................................   1        0        seq
    ................................ccaggcucagggaaacugaga......................................................   16       0        seq
    ................................Acaggcucagggaaacugaga......................................................   1        1        seq
    ................................ccaggcucagggaaacugaAa......................................................   1        1        seq
    ................................ccaggcucagggaaacugagaA.....................................................   2        1        seq
    ................................ccaggcucagggaaacugagaca....................................................   3        0        seq
    ................................ccaggcucagggaaacugagacU....................................................   2        1        seq
    ............................................acugagaGaguggacaagc............................................   1        1        seq
    ...........................................cugagaGaguggacaagc.............................................   1        1        seq
    ......................................................................uugagccccuuucccug.......................   1        0        seq
    ......................................................................cccccuuucccugagccu......................   1        0        seq
    ......................................................................cccccuuucccugagccug.....................   1        0        seq
    ......................................................................cccccuuucccugagccugA....................   1        1        seq
    ......................................................................cccccuuucccugagccugc....................   2        0        seq
    ......................................................................cccccuuucccugagccugca...................   11       0        seq
    ......................................................................cccccuuucccugagccuNca...................   1        1        seq
    ......................................................................cccccuuucccugagccugcaA..................   1        1        seq
    ......................................................................cccccuuucccugagccuNcau..................   1        1        seq
    ......................................................................cccccuuucccugagccugcau..................   24       0        seq
    ......................................................................cccccuuucccugagccCgcau..................   1        1        seq
    ......................................................................cccccuuucccugagccugcauu.................   2        0        seq
    ......................................................................cccccuuucccugagccugcauuu................   1        0        seq
    ......................................................................ccccuuucccugagccugcaA...................   1        1        seq
```

novel-mir-candidate-208

Provisional ID	:	chr14_31121
Score total	:	5
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.7
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	248
Mature read count	:	248
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- ccuugagcuuuaaggcuuuucuuaggugggagucggggaggcugggugggcaguauauucagauauuggaucugagcccuguucucccuaggguccugacuuccaguccuug  -3'   exp
    ....(((((....)))))).....(((((((((((((.....(((.((((((....(((((((.....)))))))..)))))))..))).....)))))))).))))..))).. reads     mm        sample
    ...............................ucggggaggacugggugggcaguauauucaga.............................................. 1         0         seq
    ......................................................uauauucagauauuggaucugagcccuguucucccuagA................... 1         1         seq
    .......................................................ucagauauuggaucugagcccuguucucccuagA.................... 1         1         seq
    ............................................................auuggaucugagcccuguucucccuagUu.................. 1         1         seq
    ....................................................................ucugagcccuguucucccuag..................... 12        0         seq
    ....................................................................ucugagcccuguucucccuagU.................... 12        1         seq
    ....................................................................ucugagcccuguucucccuagA.................... 221       1         seq
    ....................................................................ucugagcccuguucucccuagAu................... 3         1         seq
```

novel-mir-candidate-81

Provisional ID	:	chr1_4416
Score total	:	53.7
Score for star read(s)	:	3.9
Score for read counts	:	52.1
Score for mfe	:	0.5
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	114
Mature read count	:	111
Loop read count	:	0
Star read count	:	3

Star Mature

```
5'- uguuuagucagggugacugugcccucuuccuagacagaguguucucaucagucagaaaugcguuauuugauuuucuggucuggaagaaugcucaaauuaccauuagccguuugu  -3'   obs
    uguuuagucagggugacugugcccucuuccuagacagaguguucucaucagucagaaaugcguuauuugauuuucuggucuggaagaaugcucaaauuaccauuagccguuugu        exp
    .((((((..(((((.....)))))....)))))))(((((((..(((((((((((..((.....))..)))))))).)))).)))))))).....................   reads    mm       sample
    ................................acagguguucucaucagucagaa.......................................................   1        0        seq
    ...................................caguguucucaucagucaga.......................................................   1        0        seq
    ...................................aguguucucaucagucagaaaug....................................................   1        0        seq
    ..................................................................auuuucuggucuggaagaaug.......................   1        0        seq
    .................................................................uuucuggucuggaagaaug.........................   1        0        seq
    .................................................................uuucuggucuggUagaaugcu......................   1        1        seq
    .................................................................uuucuggucuggaagaaugcu......................   20       0        seq
    .................................................................uuucuggucuggaagaaugcuc.....................   4        0        seq
    .................................................................uuucuggucuggaagaaugcuU.....................   1        1        seq
    .................................................................uuucuggucuggaagaaugcucC....................   1        1        seq
    .................................................................uuucuggucuggaagaaugcuca....................   4        0        seq
    .................................................................uuucuggucuggaagaaugcucU....................   58       1        seq
    ................................................................uucuggucuggaagaaugcu.......................   1        0        seq
    ................................................................uucuggucuggaagaaugcuc......................   1        0        seq
    ................................................................uucuggucuggaagaaugcuca.....................   2        0        seq
    ................................................................uucuggucuggaagaaugcucU.....................   7        1        seq
    ................................................................uucuggucuggaagaaugcucaa....................   1        0        seq
    ................................................................uucuggucuggaagaaugcucUa....................   1        1        seq
    ...............................................................ucuggucuggaagaaugcu........................   1        0        seq
    ...............................................................ucuggucuggaagaaugcucU......................   2        1        seq
    ...............................................................ucuggucuggaagaaugcuca......................   1        0        seq
    ...............................................................ucuggucuggaagaaugcucUa.....................   1        1        seq
    ...............................................................ucuggucuggaagaaugcucaa.....................   2        0        seq
```

novel-mir-candidate-127

Provisional ID	:	chr8_20144
Score total	:	34.6
Score for star read(s)	:	3.9
Score for read counts	:	28.2
Score for mfe	:	1.5
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	67
Mature read count	:	64
Loop read count	:	0
Star read count	:	3

Mature Star

```
5'- uuugacaacguuuccauuuaucugguaaugcgggugggaugaaguucacccucauccacccacauuaccaaggaacuaaggaauugugcguuugcaguaacagaagaaauug  -3'   obs
    uuugacaacguuuccauuuaucugguaaugcgggugggaugaaguucacccucauccacccacauuaccaaggaaccuaaggaauugugcguuugcaguaacagaagaaauug        exp
    .(((..(((((((((.....(((((((((.(((((((((.........)))))))))..)))))))..))).....))))....)))))..))).................
```

	reads	mm	sample
....aucugguaaugcgggugggauga....	3	0	seq
....ucugguaaugcgggugggau....	2	0	seq
....ucugguaaugcgggugggaug....	5	0	seq
....ucugguaaugcgggugggauA....	1	1	seq
....ucugguaaugcgggugggauga....	25	0	seq
....ucugguaaugcgggugggauUa....	1	1	seq
....ucugguaaugcgggugggaugaU....	1	1	seq
....ucugguaaugUgggugggaugaa....	1	1	seq
....ucugguaaugcgggugggaugaa....	13	0	seq
....ucugguaaugcgggugggaugaaU....	1	1	seq
....ucugguaaugcgggugggaugaaA....	4	1	seq
....ucugguaaugcgggugggaugaagu....	1	0	seq
....cugguaaugcgggugggauga....	1	0	seq
....cugguaaugcgggugggaugaa....	2	0	seq
....cugguaaugcgggugggaugaaA....	1	1	seq
....cugguaaugcgggugggaugaagu....	1	0	seq
....ugguaaugcgggugggaugaa....	1	0	seq
....cucauccacccacauuaccaaU....	1	1	seq
....cucauccacccacauuaccaagg....	1	0	seq
....ucauccacccacauuaccaagg....	1	0	seq
....cauccacccacauuaccaagg....	1	0	seq
....auccacccacauuaccaagg....	1	0	seq

novel-mir-candidate-169

Provisional ID	:	chr17_37842
Score total	:	19.3
Score for star read(s)	:	3.9
Score for read counts	:	16.4
Score for mfe	:	1.8
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	44
Mature read count	:	43
Loop read count	:	0
Star read count	:	1

Star Mature

```
5'- uggucauuggcaaaggggcagauucggaacaguaggagccagggugcuuuuuggcuuucuuuucugagccaugggcauucugucucuugcucacccccacaggacaugaug  -3'   obs
    uggucauuggcaaaggggcagauucggaacaguaggagccagggugcuuuuuggcuuucuuuucugagccaugggcauucugucucuugcucacccccacaggacaugaug        exp
    ..(((((.......((((..((.........(((((((.((((((((((..((((((........)))))).))))))))))).))))))))..))))).......)))))).   reads   mm   sample
    ................................uaggagccagggugcuuuuuggcu.................................................   1       0    seq
    ...............................................................caugggcauucugucucuugcu...................   5       0    seq
    ...............................................................Gugggcauucugucucuugcu....................   1       1    seq
    ...............................................................augggcaAucugucucuugcu....................   1       1    seq
    ...............................................................augggcauucugucucuugcu....................   32      0    seq
    ...............................................................augggcauucugucucuugcA....................   1       1    seq
    ...............................................................augggcauucugucucuugcU....................   1       1    seq
    ...............................................................augggcauucugucucuugcuA...................   1       1    seq
    ...............................................................ugggcauucugucucuugcu.....................   1       0    seq
```

novel-mir-candidate-429

Provisional ID	:	chr20_42346
Score total	:	1.1
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.4
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	23
Mature read count	:	23
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- ucccuggcaaccugcuugcauccaugacucccagcuggaggccuagcuguaaacagcaggaagucauuuaagaugccugagccaggggacggacccagcacauuugcg  -3'   exp
    ((((((((...(.....(((((.((((((.(((((((((....)))))))).........))).)))))).....)))))..).)))))))).........(((....))).   reads   mm   sample
    ...........................................................uuuaagaugccugagcca.......................   7       0    seq
    ...........................................................uuuaagaugccugagccag......................   13      0    seq
    ...........................................................uuaagaugccugagccag.......................   3       0    seq
```

novel-mir-candidate-389

Provisional ID	:	chr7_18239
Score total	:	1.5
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.8
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	29
Mature read count	:	29
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- aauauccuuaaaccuugccugggagacaaagauagggaggcuggggacuuuggaaaugggaucuuguccccauaaccaaccugagccucucuguuuugcuucccucucucucugc  -3'   exp
    ....................(((((.(((.((((((((((((.(((...((((..((((........))))..)))))))).)))))))))))))))).)))))..........   reads    mm       sample
    ..............................................................uaaccaaccugagccucucug......................   2        0        seq
    ..............................................................uaaccaaccugagccucucugu.....................   19       0        seq
    ..............................................................uaaccaaccugagccucucugC.....................   1        1        seq
    ..............................................................uaaccaaccugagccucucugA.....................   2        1        seq
    ..............................................................uaaccaaccugagccucucuguA....................   2        1        seq
    ..............................................................uaaccaaccugagccucucuguAu...................   2        1        seq
    ..............................................................uaaccaaccugagccucucuguuu...................   1        0        seq
```

novel-mir-candidate-214

Provisional ID	:	chr8_20693
Score total	:	4.6
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.3
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	207
Mature read count	:	204
Loop read count	:	0
Star read count	:	3

Star Mature

```
5'- uugccagcagucacauugcccaggugguuuaacaugccucucuugauccuuugguccaccguguuuuggggauagaggauuaaagugaggaccugcacugguacagccuug  -3'   obs
    uugccagcagucacauugcccaggugguuuaacaugccucucuugauccuuugguccaccguguuuuggggauagaggauuaaagugaggaccugcacugguacagccuug        exp
    .(((((((((..(((((.....)))))........((((.(((((((((((((.(((.(((.....)))))))))))))))).))).))))..))))).....   reads   mm   sample
    .............cauugcccaggGguuuaacaugc.................................................................   1       1    seq
    ................................augccucucuugauccuuugguU.............................................   1       1    seq
    ................................augccucucuugauccuuugguc.............................................   1       0    seq
    ................................augccucucuugauccuuugguccc...........................................   2       0    seq
    ................................augccucucuugauccuuugguccU...........................................   3       1    seq
    ...................................ugccucucuugauccuuuggu..............................................   1       0    seq
    ................................ugccucucuugauccuuugguc..............................................   2       0    seq
    ......................................................................auagaggauuaaagugagga...................   6       0    seq
    ......................................................................auagaggauuaaagugagAa...................   1       1    seq
    ......................................................................Cuagaggauuaaagugaggac..................   1       1    seq
    ......................................................................auagaggauuaaagugaggaA..................   6       1    seq
    ......................................................................auagaggauuaaagugaggaU..................   6       1    seq
    ......................................................................auagaggauuaaagugaggac..................   50      0    seq
    ......................................................................auagaggauuaaagugaggacU.................   49      1    seq
    ......................................................................auagaggauuaaagugaggacA.................   21      1    seq
    ......................................................................auagaggauuaaagugaggacc.................   25      0    seq
    ......................................................................auagaggauuaaagugagNacc.................   1       1    seq
    ......................................................................auagaggauuaaagugagAacc.................   1       1    seq
    ......................................................................auagaggauuaaagugaggaccA................   5       1    seq
    ......................................................................auagaggauuaaagugaggacAu................   1       1    seq
    ......................................................................auagaggauuaaagugaggaccu................   18      0    seq
    ......................................................................auagaggauuaaagugaggacUu................   2       1    seq
    ......................................................................auagaggauuaaagugaggaccug...............   3       0    seq
    ......................................................................auagaggauuaaagugaggaccuA...............   1       1    seq
    ......................................................................auagaggauuaaagugaggaccuU...............   6       1    seq
    ......................................................................auagaggauuaaagugaggaccugU..............   1       1    seq
```

novel-mir-candidate-223

Provisional ID	:	chr2_7227
Score total	:	2.5
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.8
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	41
Mature read count	:	41
Loop read count	:	0
Star read count	:	0

Mature Star

```
5'- auuauguacaaucaguuauaucuguuccugaaccuagcaugagcgauugugaagccauuguggagcaauuguucaugcuaggguucaggaacagauauaacugauuacucuua  -3'    exp
    .........(((((((((((((((((((((((((((((((((((((((((((((((((...((....))...)))))))))))))))))))))))))))))))))))))))).......  reads      mm         sample
    ................uauaucuguuccugaaccuagc.......................................................................  1          0          seq
    ................uauaucuguuccugaaccuagA.......................................................................  1          1          seq
    ..................aucuguuccugaaccuagca.......................................................................  4          0          seq
    ...................ucuguuccugaaccuagca.......................................................................  1          0          seq
    ....................ucuguuccugaaccuagcaug.....................................................................  4          0          seq
    ....................ucuguuccugaaccuGgcaug.....................................................................  1          1          seq
    ....................ucuguuccugaaccuagcauga....................................................................  30         0          seq
    ....................ucuguuccugaaccuagcaugaU...................................................................  1          1          seq
```

novel-mir-candidate-147

Provisional ID	:	chr17_38303
Score total	:	27.6
Score for star read(s)	:	3.9
Score for read counts	:	21
Score for mfe	:	1.8
Score for randfold	:	-2.2
Score for cons. seed	:	3
Total read count	:	53
Mature read count	:	21
Loop read count	:	0
Star read count	:	32

Star **Mature**

```
5'- agggcuccucagccucaggUUGCCUGGGAUAGGAAGUGAGGcggcucagcucccccauuguucuuuccccccggcagaugugcugacgcccgcccagcugaauguguugucc  -3'   obs
    agggcuccucagccucaggUUGCCUGGGAUAGGAAGUGAGGcggcucagcucccccauuguucuuuccccccggcagaugugcugacgcccgcccagcugaauguguugucc        exp
    .((((...(((((..((..(((((.((((.(((((((((.((.(((...)))).)).)))).)))).)))).)))))..)))))..)).)))))).))))...((((.......))))...   reads    mm    sample
    ...................uugccugggauaggaagugag.......................................................................   7        0     seq
    ...................uugccugggauaggaaguAag.......................................................................   1        1     seq
    ...................uugccugggauaggaagugagg......................................................................   4        0     seq
    ...................uugccugggauaggaagugagU......................................................................   1        1     seq
    ...................uugccugggauaggaagugagA......................................................................   4        1     seq
    ...................uugccugggauaggaagugagGA.....................................................................   2        1     seq
    ...................uugccugggauaggaagugagGU.....................................................................   1        1     seq
    ....................ugccugggauaggaagugag.......................................................................   2        0     seq
    ....................ugccugggauaggaagugagg......................................................................   8        0     seq
    ....................ugccugggauaggaagugagA......................................................................   1        1     seq
    ....................ugccugggauaggaagugagGAg....................................................................   1        1     seq
    ..........................................................ccauguucuuuccccccggcag...............................   7        0     seq
    ..........................................................ccauguucuuuccccccggcagU..............................   11       1     seq
    .........................................................cauguucuuuccccccggcag................................   3        0     seq
```

novel-mir-candidate-187

Provisional ID	:	chr11_27531
Score total	:	10.5
Score for star read(s)	:	3.9
Score for read counts	:	9.8
Score for mfe	:	-0.3
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	31
Mature read count	:	29
Loop read count	:	0
Star read count	:	2

Mature **Star**

```
5'- gaaauguauggcuuuugaauugagggauggaaucuccuagccuggagauaauuaaauaaggcuuagaucucccucucucccuucacgcauuuccugaauaccuagaacaugcc  -3'   obs
    gaaauguauggcuuuugaauugagggauggaaucuccuagccuggagauaauuaaauaaggcuuagaucucccucucucccuucacgcauuuccugaauaccuagaacaugcc        exp
    .....(((((((...((((..((((((.(((((((...(((((.............)))))..))))..))))..))))))..))))..))).....(((.......)))..)))))).   reads   mm   sample
    ....................ugagggauggaaucuccuagcc.......................................................................   2       0    seq
    ....................ugagggauggaaucuccuagccu......................................................................   26      0    seq
    ....................ugagggauggaaucuccuagccG......................................................................   1       1    seq
    ...........................................................gcuuagaucucccucucucccu..............................   1       0    seq
    ...........................................................gcuuagaucucccucucucccuu.............................   1       0    seq
```

novel-mir-candidate-392

Provisional ID	:	chr16_34442
Score total	:	1.4
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.7
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	64
Mature read count	:	64
Loop read count	:	0
Star read count	:	0

Mature Star

```
5'- aucacugggaaauuuaaguuugcagauccccacacucacccugaauccucacucagggugggggucaggaaucugcauuuuuaacuagucgcggggauugugggggggcaguagcu  -3'    exp
    ....(((.((...(((((..(((((((((.((.((((((((((........)))))))))))..)).)))))))..))))).....)).)))..(((((.....)))))....
```

reads	mm	sample
1	0	seq
1	0	seq
1	0	seq
2	0	seq
4	0	seq
1	0	seq
1	0	seq
1	0	seq
9	0	seq
1	1	seq
1	1	seq
1	1	seq
1	1	seq
2	0	seq
1	1	seq
1	1	seq
4	1	seq
1	0	seq
2	1	seq
10	0	seq
2	0	seq
9	1	seq
1	1	seq
6	0	seq
2	1	seq

```
.........aaauuuaaguuugcagauccccacacucacccugaauccu.....................................
.................guuugcagauccccacacucaccc.............................................
.................uuugcagauccccacacuca.................................................
.................uuugcagauccccacacucacc................................................
.................uuugcagauccccacacucacccu..............................................
.................uuugcagauccccacacuca.................................................
.................uuugcagauccccacacucac................................................
.................uuugcagauccccacacucaccc..............................................
.................uuugcagauccccacacucacccu..............................................
.................uuugcagauccccacacucacccA..............................................
.................uuugcagauccccacacucaGccu..............................................
.................uuugcagauccccacacucacccAg.............................................
.................uuugcagauccccacacucacccuU.............................................
.................uuugcagauccccacacucacccug.............................................
.................uuugAagauccccacacucacccug.............................................
.................uuugcagauccccacacucacccuA.............................................
.................uuugcagauccccacacucacccugU............................................
.................uuugcagauccccacacucacccuga............................................
.................uuugcagauccccacacucacccugUa...........................................
...................ugcagauccccacacucacccu..............................................
...................ugcagauccccacacucacccug.............................................
...................ugcagauccccacacucacccugU............................................
...................ugcagauccccacacucacccugC............................................
...................ugcagauccccacacucacccuga............................................
...................ugcagauccccacacucacccugUa...........................................
```

novel-mir-candidate-137

Provisional ID	:	chr14_32460
Score total	:	31.5
Score for star read(s)	:	3.9
Score for read counts	:	24.6
Score for mfe	:	2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	60
Mature read count	:	32
Loop read count	:	0
Star read count	:	28

Star Mature

```
5'- aguacuugacacuuuucaguucacauucacauucacuguccuacuugugccuaucacaaguaaguacuuguauagucacaaguaagagagugaaugugaauguauuguucugu -3'   obs
    aguacuugacacuuuucaguucacauucacauucacuguccuacuugugccuaucacaaguaaguacuuguauagucacaaguaagagagugaaugugaauguauuguucugu        exp
    ................(((..(((((((((((((((.((.(((((((((.(((((((..(((....)))))))))).))))))))).))).))))))))))))))...)..))).   reads     mm        sample
    ...................................acuguccuacuugugccuau.......................................................   4         0         seq
    ...................................acuguccuacuugugccuNuc.......................................................   1         1         seq
    ...................................acuguccuacuugugccuauc.......................................................   15        0         seq
    ...................................acugGccuacuugugccuauc.......................................................   1         1         seq
    ...................................acuguccuacuugugccuaucU......................................................   1         1         seq
    ...................................acuguccuacuugugccuauca......................................................   5         0         seq
    ....................................uguccuacuugugccuaucac......................................................   1         0         seq
    ......................................................................auagucacaaguaagagag......................   1         0         seq
    ......................................................................auagucacaaguaagagagu.....................   1         0         seq
    ......................................................................auagucacaaguaagagagug....................   8         0         seq
    ......................................................................auagucacaaguaagagaguga...................   21        0         seq
    ......................................................................uagucacaaguaagagaguga....................   1         0         seq
```

novel-mir-candidate-443

Provisional ID	:	chr17_36276
Score total	:	1
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.5
Score for randfold	:	-2.2
Score for cons. seed	:	3
Total read count	:	35
Mature read count	:	34
Loop read count	:	1
Star read count	:	0

Mature Star

```
5'- ccaaguggcccgcaagcccaccuggauucugcucccacacagccuguuccaggcccugcucacaguggugucccaggugcuguguuuccuggccaucgaugguaccugcc  -3'   exp
    (((.(((((((.(.(((((((((((((((.(((((....((..(((((...)))))..))).....)))))).)).)))))))..).)))).).)).)))))))....)))........  reads   mm   sample
    ...aguggcccgcaagcccaccuggauucugcuccc.......................................................................  1       0    seq
    ...................accuggauucugcucccacac.....................................................................  1       0    seq
    ...................accuggauucugcucccacaca....................................................................  3       0    seq
    ....................ccuggauucugcucccaca......................................................................  2       0    seq
    ....................ccuggauucugcucccacacU....................................................................  1       1    seq
    ....................ccuggauucugcucccacaca....................................................................  13      0    seq
    ....................Acuggauucugcucccacacag...................................................................  1       1    seq
    ....................ccuggauucugcucccacacag...................................................................  3       0    seq
    ....................ccuggauucugcucccacacagG..................................................................  1       1    seq
    ....................ccuggauucugcucccacacagU..................................................................  6       1    seq
    ....................ccuggauucugcucccacacagA..................................................................  3       1    seq
    ........................................Uccuguuccaggcccugc...................................................  1       1    seq
    ..........................................................................gugcuguguuuccuggccauc..............  1       0    seq
```

novel-mir-candidate-104

Provisional ID	:	chr10_23939
Score total	:	44.4
Score for star read(s)	:	3.9
Score for read counts	:	36.8
Score for mfe	:	2.6
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	84
Mature read count	:	74
Loop read count	:	1
Star read count	:	9

Star Mature

```
5'- cugacagaugggcacucgcaccacaggaggcaggccauuccccaucagaugggcccaaacugcuaggacucaucugauggggaauggccugccucauguugcuuuuaauca  -3'   obs
    cugacagaugggcacucgcaccacaggaggcaggccauuccccaucagaugggcccaaacugcuaggacucaucugauggggaauggccugccucauguugcuuuuaauca        exp
    .........((((....)).))))((.((((((((((((((((((((((((((((.((.........)).)))))))))))))))))))))))))).))).............  reads   mm   sample
    ...............................gcaggccauuccccaucagau.......................................................................  1       0    seq
    ...............................caggccauuccccaucag.........................................................................  3       0    seq
    ...............................caggccauuccccaucaga........................................................................  3       0    seq
    ...............................caggccauuccccaucagau.......................................................................  1       0    seq
    ...............................caggccauuccccaucagaA......................................................................  1       1    seq
    ..................................................................ccaaacugcuaggacucU.....................................  1       1    seq
    ......................................................................acucaucugauggggaauggcA...................................  1       1    seq
    .......................................................................caucugauggggaauggccu....................................  1       0    seq
    .......................................................................caucugauggggaauggccug...................................  3       0    seq
    .......................................................................caucugauggggaauggccugU..................................  13      1    seq
    .......................................................................caucugauggggaauggccugA..................................  3       1    seq
    .......................................................................caucugauggggaauggccugc..................................  8       0    seq
    .......................................................................caucugauggggaauggccugcU.................................  1       1    seq
    .......................................................................caucugauggggaauggccugcA.................................  1       1    seq
    ........................................................................aucugauggggaauggcc.....................................  1       0    seq
    .......................................................................aucugauggggaauggccugU...................................  4       1    seq
    .......................................................................aucugauggggaauggccugcc..................................  1       0    seq
    ........................................................................ucugauggggaauggccu.....................................  2       0    seq
    .......................................................................ucugauggggaauggccug....................................  2       0    seq
    .......................................................................ucugauggggaauggccugA...................................  2       1    seq
    .......................................................................ucugauggggaauggccugU...................................  2       1    seq
    .......................................................................ucugauggggaauggccugc...................................  3       0    seq
    .......................................................................ucugauggggaauggccugcA..................................  1       1    seq
    .......................................................................ucugauggggaauggccugcc..................................  1       0    seq
    .......................................................................ucugauggggaauggccugcU..................................  1       1    seq
    .......................................................................ucugauggggaauggccugccA.................................  1       1    seq
    .......................................................................ucugauggggaauggccugccu.................................  10      0    seq
    .......................................................................ucugauggggaauggccugcAu.................................  1       1    seq
    .......................................................................ucugauggggaauggccugccuc................................  1       0    seq
    .......................................................................ucugauggggaauggccugccucU...............................  1       1    seq
    .......................................................................ucugauggggaauggccugccuUau..............................  1       1    seq
    ........................................................................ugauggggaauggccugc.....................................  1       0    seq
    ........................................................................ugauggggaauggccugccu...................................  3       0    seq
```

Star Mature

```
cugacagaugggcacucgcaccacaggaggcaggccauuccccaucagaugggcccaaacugcuaggacucaucugauggggaauggccugccucauguugcuuuuaauca
.......................................................................ugauggggaauggccugccG.................  1       1       seq
.......................................................................ugauggggaauggccugccuc................  4       0       seq
```

novel-mir-candidate-333

Provisional ID	:	chr10_24197
Score total	:	1.8
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	109
Mature read count	:	105
Loop read count	:	0
Star read count	:	4

Star Mature

```
5'- gcaaggcugaugggauagagcuaugguggguga aauggggugacagugaggcagggggacacaagccguucc cauugucuuucugucucuccaca gcgccgccccuggcugggg  -3'   obs
    gcaaggcugaugggauagagcuaugguggguga aaaggggugacagugaggcaggggacacaagccguucc cauugucuuucugucucuccaca gcgccgccccuggcugggg        exp
    .((.((((..........)))).))...((((...((((((.((((((.(((((((((((.......)))))).)))))))..)))))).)))))...)))).((((.....))))   reads     mm        sample
    ................................aauggggCgacagugaggca.................................................   1         1         seq
    ................................aauggggugacagugaggcag................................................   1         0         seq
    ................................aauggggugacagugaggcagA...............................................   1         1         seq
    ................................aauggggugacagugaggcagU...............................................   1         1         seq
    ...................................................................cauugucuuucugucucucc.....................   2         0         seq
    ...................................................................cauugucuuucugucucucca....................   1         0         seq
    ...................................................................cauugucuuucugucucuccac...................   6         0         seq
    ...................................................................cauugucuuucugucucuccaU...................   1         1         seq
    ...................................................................cauugucuuucugucucuccaA...................   1         1         seq
    ...................................................................cauugucuuucugucucuccaUa..................   1         1         seq
    ...................................................................cauugucuuucugucucuccacU..................   11        1         seq
    ...................................................................cauugucuuucugucucuccaca..................   26        0         seq
    ...................................................................cauugucuuucugucucuccacaA.................   1         1         seq
    ...................................................................cauugucuuucugucucuccacagU................   3         1         seq
    ...................................................................auugucuuucugucucuccaU....................   1         1         seq
    ...................................................................auugucuuucugucucuccac....................   1         0         seq
    ...................................................................auugucuuucugucucuccacG...................   1         1         seq
    ...................................................................auugucuuucugucucuccacU...................   7         1         seq
    ...................................................................auugucuuucugucucucNaca...................   1         1         seq
    ...................................................................auugucuuucugucucuccaca...................   13        0         seq
    ...................................................................auugucuuucugucucuccacaA..................   2         1         seq
    ...................................................................auugucuuucugucucuccacagU................   6         1         seq
    ...................................................................auugucuuucugucucuccacagG................   1         1         seq
    ...................................................................auugucuuucugucucuccacagA................   2         1         seq
    ....................................................................uugucuuucugucucuccaU....................   1         1         seq
    ....................................................................uugucuuucugucucuccaca...................   4         0         seq
    ....................................................................uugucuuucugucucuccacag..................   2         0         seq
    ....................................................................uugucuuucugucucuccacagA................   5         1         seq
    ....................................................................uugucuuucugucucuccacagU................   5         1         seq
```

novel-mir-candidate-101

Provisional ID	:	chr3_9462
Score total	:	45.3
Score for star read(s)	:	3.9
Score for read counts	:	38.4
Score for mfe	:	2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	87
Mature read count	:	84
Loop read count	:	0
Star read count	:	3

Mature **Star**

```
5'- aacaacaaaaaugggaauuaaccgauuccuucuaaaagcugaaggcuccuuggcaguggauauugacccuucaacuuuuagaaggaaucaguuaauuuuuguuguugaaa  -3'   obs
    aacaacaaaaaugggaauuaaccgauuccuucuaaaagcugaaggcuccuuggcaguggauauugacccuucaacuuuuagaaggaaucaguuaauuuuuguuguugaaa        exp
    (((((((((.....(((((((((.(((((((((((((((.((((((.((..(((........)).)).)))))))).))))))))))))))).))))))))))))))))....  reads   mm   sample
    ....................aaccgauuccuucuaaaagcug.......................................................................  6       0    seq
    ....................accgauuccuucuaaaag...........................................................................  1       0    seq
    ....................accgauuccuucuaaaagcug........................................................................  75      0    seq
    ....................Gccgauuccuucuaaaagcug........................................................................  2       1    seq
    ..............................cuucuaaaagcugaaggcuccu.............................................................  1       0    seq
    ...............................................................ugacccuucaacuuuuagaag...........................  1       0    seq
    ..................................................................uucaacuuuuagaaggaaucag.....................  1       0    seq
    .................................................................uucaacuuuuagaaggaaucagu.....................  1       0    seq
    ...............................................................ucaacuuuuagaaggaaucagu.......................  4       0    seq
    ..................................................................aacuuuuagaaggaaucagu.......................  3       0    seq
```

novel-mir-candidate-371

Provisional ID	:	chr19_40147
Score total	:	1.6
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.9
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	66
Mature read count	:	65
Loop read count	:	0
Star read count	:	1

Star Mature

```
5'- cuuaagagacugagggguuccaggagcuuugugggggcagcauugggagugugaacccccauccaggguucucaccucucaaacuuccucagaugcugagccccacuuauaa  -3'   obs
    cuuaagagacugagggguuccaggagcuuugugggggcagcauugggagugugaacccccauccaggguucucaccucucaaacuuccucagaugcugagccccacuuauaa        exp
    ..........((((((((((....(((..(.(((((.((..((((((((((.(((((........)))))..))..)))))))..))..)))))).).))))))))))..))))...   reads   mm   sample
    ...............................ugugggggcagcauugggagugugaa.............................................   1       0    seq
    ................................uggggcagcUuugggagugugaacccccc..........................................   1       1    seq
    ..................................................................cucaccucucaaacuuccuca....................   1       0    seq
    ..................................................................cucaccucucaaacuuccucag...................   1       0    seq
    ..................................................................cucGccucucaaacuuccucag...................   1       1    seq
    ..................................................................cucaccucucaaacuuccucaga..................   1       0    seq
    ..................................................................cucaccucucaaacuuccucagU..................   6       1    seq
    ..................................................................Gucaccucucaaacuuccucaga..................   1       1    seq
    ..................................................................cucaccucucaaacuuccucagCu.................   1       1    seq
    ....................................................................ucaccucucaaacuuccu.....................   1       0    seq
    ....................................................................ucaccucucaaacuuccuca....................   2       0    seq
    ....................................................................ucaccucucaaacuuccucag...................   3       0    seq
    ....................................................................ucaccucucaaacuuccucaA..................   2       1    seq
    ....................................................................ucaccucucaaacuuccucagU.................   36      1    seq
    ....................................................................ucaccucucaaacuuccucaga.................   7       0    seq
    ....................................................................ucaccucucaaacuuccucagUu................   2       1    seq
```

novel-mir-candidate-50

Provisional ID	:	chr4_12073
Score total	:	91.1
Score for star read(s)	:	3.9
Score for read counts	:	83.7
Score for mfe	:	2.5
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	176
Mature read count	:	112
Loop read count	:	0
Star read count	:	64

```
                    Mature                  Star
5'- uagaaguaagcaucacucagcauaaacugcaugccugcacaccaggcaugcagugaugugcaggcaugcaguuuauguuaagugaugcuuucuuuguuccuauacugcuuucc  -3'   obs
    uagaaguaagcaucacucagcauaaacugcaugccugcacaccaggcaugcagugaugugcaggcaugcaguuuauguuaagugaugcuuucuuuguuccuauacugcuuucc        exp
    ..((((.(((((((((((.(((((((((((((((((((((((((.((.........)).)))))))))))))))))))))))).))))))))))).)))).................   reads   mm   sample
    ..................agcauaaacugcaugccugcac.................................................................................   2       0    seq
    ....................cauaaacugcaugccugca...................................................................................   4       0    seq
    ....................cauaaacugcaugccugcac...................................................................................   2       0    seq
    ....................cauaaacugcaugccugcacU..................................................................................   1       1    seq
    ....................cauaaacugcaugccugcaAa..................................................................................   2       1    seq
    ....................cauaaacugcaugccugcaca..................................................................................   19      0    seq
    ....................cauaaacugUaugccugcaca..................................................................................   1       1    seq
    ....................cauaaacugcaugccugcacaA.................................................................................   2       1    seq
    ....................cauaaacugcauUccugcacac.................................................................................   1       1    seq
    ....................cauaaacugcaugccugcacac.................................................................................   6       0    seq
    ....................cauaaacugcaugcGugcacacc................................................................................   1       1    seq
    ....................cauaaacugcaugccugcacacc................................................................................   33      0    seq
    ....................cauaaacugcaugccugcaGacc................................................................................   1       1    seq
    ....................cauaaacugcauUccugcacacc................................................................................   1       1    seq
    ....................cauaaacugcaugccugcacacU................................................................................   14      1    seq
    ....................cauaaacugcaugccugcacacA................................................................................   6       1    seq
    ....................cauaaacugcaugccugcacacGa...............................................................................   1       1    seq
    ....................cauaaacugcaugccugcacacca...............................................................................   1       0    seq
    ....................cauaaacugcaugccugcacaccU...............................................................................   3       1    seq
    ....................cauaaacugcaugccugcacaccaU..............................................................................   1       1    seq
    .....................uaaacugcaugccugcaca...................................................................................   2       0    seq
    .....................uaaacugcaugccugcacU...................................................................................   1       1    seq
    .....................uaaacugcauCccugcacacc.................................................................................   1       1    seq
    .....................uaaacugcaugccugcacacc.................................................................................   3       0    seq
    .....................uaaacugcaugccugcacacU.................................................................................   1       1    seq
    .....................uaaacugcaugccugcacaccaU...............................................................................   1       1    seq
    .....................uaaacugcaugccugcacaccaA...............................................................................   1       1    seq
    ..........................................ugugcaggcaugcaguuuaug...............................................................   3       0    seq
    ..........................................uUugcaggcaugcaguuuaugu..............................................................   1       1    seq
    ..........................................ugugcaggcaugcaguuuaugu...............................................................   4       0    seq
    ..........................................uUugcaggcaugcaguuuauguu.............................................................   1       1    seq
    ..........................................ugugcaggcaugcaguuuauguu..............................................................   30      0    seq
    ..........................................ugugcaggcaugcaguuCauguu..............................................................   1       1    seq
```

```
                    Mature                  Star
uagaaguaagcaucacucagcauaaacugcaugccugcacaccaggcaugcagugaugugcaggcaugcaguuuauguuaagugaugcuuucuuuguuccuauacugcuuucc
..........................................................ugugcaggcaugcaguuuauguuU...................................   6       1    seq
..........................................................gugcaggcaugcaguuuauguuA....................................   2       1    seq
..........................................................gugcaggcaugcaguuuauguu.....................................   1       0    seq
..........................................................ugcaggcaugcaguuuaug........................................   1       0    seq
..........................................................ugcaggcaugcaguuuauguu......................................   9       0    seq
..........................................................ugcGggcaugcaguuuauguu......................................   1       1    seq
..........................................................caggcaugcaguuuauguuG.......................................   1       1    seq
..........................................................caggcaugcaguuuauguuU.......................................   1       1    seq
..........................................................caggcaugcaguuuauguuaa......................................   2       0    seq
```

novel-mir-candidate-387

Provisional ID	:	chr3_9723
Score total	:	1.5
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.8
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	319
Mature read count	:	310
Loop read count	:	0
Star read count	:	9

```
                    Mature                    Star
5'- agcagggccucgcguaaggaacugcuggaacccacugagccccuucccgggguuucccgccgcacucaguguguuccuucaggcuagugaggguuucauucuguuuuauuug  -3'    obs
    agcagggccucgcguaaggaacugcuggaacccacugagccccuucccgggguuucccgccgcacucaguguguuccuucaggcuagugaggguuucauucuguuuuauuug         exp
    .(((((((((((........(((..(((((.(((((((.......((((....))))).....)))))))..)))))..)))....)))))))).....)))))........   reads      mm         sample
    ..cagggccucgcguaaggaacugcuggaaccc.......................................................................................   1          0          seq
    ..........cgcguaaggaacugcuggaacccacugagc................................................................................   1          0          seq
    ..........cgcguaaggaacugcuggaacccacugagccc..............................................................................   1          0          seq
    ..........cgcguaaggaacugcuggaacccacugagcccuuccc.........................................................................   1          0          seq
    ................Caacugcuggaacccacuga....................................................................................   1          1          seq
    ................gaacugcuggaacccacugagc..................................................................................   1          0          seq
    ................gaacugcuggaacccacugagcccu...............................................................................   1          0          seq
    ................gaacugcuggaacccacugagcccuuccc...........................................................................   1          0          seq
    ................aacugcuggaacccacug......................................................................................   1          0          seq
    ................aacugcuggaacccacuga.....................................................................................   4          0          seq
    ................Gacugcuggaacccacugag....................................................................................   1          1          seq
    ................Cacugcuggaacccacugag....................................................................................   1          1          seq
    ................aacugcuggaacccacugaA....................................................................................   6          1          seq
    ................aacugcuggaacccacugag....................................................................................   47         0          seq
    ................aacugcuggaacccacugagU...................................................................................   15         1          seq
    ................aacugcuggaacccacugagc...................................................................................   40         0          seq
    ................aacugcuggaacccacugagA...................................................................................   78         1          seq
    ................Cacugcuggaacccacugagc...................................................................................   1          1          seq
    ................aacugcuggaacccacugagcc..................................................................................   33         0          seq
    ................aNcugcuggaacccacugagcc..................................................................................   1          1          seq
    ................aacugcuggaacccacugagcA..................................................................................   4          1          seq
    ................aacugcuggaacccacugagccA.................................................................................   2          1          seq
    ................aacugcuggaacccacugagccc.................................................................................   5          0          seq
    ................aacugcuggaacccacugagccG.................................................................................   1          1          seq
    ................aacugcuggaacccacugagccU.................................................................................   12         1          seq
    ................aacugcuggaacccacugagccUu................................................................................   1          1          seq
    ................aacugcuggaacccacugagcccA................................................................................   1          1          seq
    ................Cacugcuggaacccacugagcccu................................................................................   1          1          seq
    ................aacugcuggaacccacugagcccu................................................................................   21         0          seq
    ................aacugcuggaacccacugagcccuu...............................................................................   3          0          seq
    ................aacugcuggaacccacugagcccuuc..............................................................................   1          0          seq
    ................aacugcuggaacccacugagcccuuU..............................................................................   1          1          seq
    ...................acugcuggaacccacugag...................................................................................   1          0          seq
```

```
                    Mature                    Star
agcagggccucgcguaaggaacugcuggaacccacugagccccuucccgggguuucccgccgcacucaguguguuccuucaggcuagugaggguuucauucuguuuuauuug
...................acugcuggaacccacugagA.......................................................   1          1          seq
...................acugcuggaacccacugagcc......................................................   3          0          seq
...................acugcuggaacccacugagccc.....................................................   1          0          seq
...................Ccugcuggaacccacugagccc.....................................................   1          1          seq
...................acugcuggaacccacugagccU.....................................................   2          1          seq
...................acugcuggaacccacugaNcccu....................................................   1          1          seq
...................acugcuggaacccacugagcccu....................................................   6          0          seq
...................acugcuggaacccacugagcccuG...................................................   1          1          seq
...................acugcuggaacccacugagcccuu...................................................   1          0          seq
...................acugcuggaacccacugagcccuC...................................................   1          1          seq
...................acugcuggaacccacugagcccuuU..................................................   1          1          seq
...................acugcuggaacccacugagcccuuccc................................................   1          0          seq
...................acugcuggaacccacugagcccuucccgU..............................................   1          1          seq
....................cugcuggaacccacugagcc......................................................   1          0          seq
....................ugcuggaacccacugagc........................................................   1          0          seq
....................ugcuggaacccacugagcc.......................................................   1          0          seq
....................ugcuggaacccacugagcccu.....................................................   2          0          seq
....................ugcuggaGcccacugagcccuuc...................................................   1          1          seq
.....................cuggaacccacugagcccuucc...................................................   1          0          seq
.......................gaacccacugagcccuucccggg.................................................   1          0          seq
.......................acccacugagcccuucccggA...................................................   1          1          seq
.......................acccacugagcccuucccggggA.................................................   1          1          seq
........................cccacugagcccuucccgggguuucc.............................................   2          0          seq
...................................................acucaguguguuccuucaggcu......................   8          0          seq
...................................................Ccucaguguguuccuucaggcu......................   1          1          seq
```

novel-mir-candidate-41

Provisional ID	:	chr10_24951
Score total	:	114.7
Score for star read(s)	:	3.9
Score for read counts	:	107.2
Score for mfe	:	2.6
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	222
Mature read count	:	195
Loop read count	:	0
Star read count	:	27

```
                    Mature                    Star
5'- guucuuugcucaggguuaugcaugguccauuuugcucugcuucugaaagcugaguacuuugcaagcagagcaaaacggaccaugcauaaccugggcaaaaccaugaaccauug  -3'   obs
    guucuuugcucaggguuaugcaugguccauuuugcucugcuucugaaagcugaguacuuugcaagcagagcaaaacggaccaugcauaaccugggcaaaaccaugaaccauug        exp
    ((((((((((((((((((((((((((.(((((((((((((...((((.......))))..)))))))))))))).))))))))))))))))))))))).....))))).....   reads   mm   sample
    ................ugcaugguccauuuugcuc.......................................................................   1       0    seq
    ................ugcaugguccauuuugcucug.....................................................................   1       0    seq
    ................ugcaugguccauuuugcucugc....................................................................   5       0    seq
    ................ugcauAguccauuuugcucugc....................................................................   2       1    seq
    ................ugcauAguccauuuugcucugcu...................................................................   1       1    seq
    ................ugcaugguccauuuugcucugcu...................................................................   1       0    seq
    ................ugcaugguccauuuugcucugcA...................................................................   2       1    seq
    ................cauAguccauuuugcucugc......................................................................   1       1    seq
    ................cauAguccauuuugcucugcu.....................................................................   24      1    seq
    ................caugguccauuuugcucugcu.....................................................................   15      0    seq
    ................cauAguccauuuugcucugcuu....................................................................   29      1    seq
    ................caugguccauuuugcucugcuu....................................................................   12      0    seq
    ................cauggucAauuuugcucugcuu....................................................................   1       1    seq
    ................caugguccauuuugcucugcuA....................................................................   2       1    seq
    ................caugguccauuuugcucugcuuA...................................................................   8       1    seq
    ................caugguccauuuugcucugcuuU...................................................................   8       1    seq
    ................caugguccauuuugcucugcuuUu..................................................................   3       1    seq
    ...............augguccauuuugcucugcu.......................................................................   3       0    seq
    ...............auAguccauuuugcucugcu.......................................................................   3       1    seq
    ...............auAguccauuuugcucugcuu......................................................................   17      1    seq
    ...............augguccauuuugcucugcuu......................................................................   14      0    seq
    ...............augguccauuuugcucugAuu......................................................................   1       1    seq
    ...............augguccauuuuUcucugcuu......................................................................   1       1    seq
    ...............augguccauuuugcuGugcuuc.....................................................................   1       1    seq
    ...............augguccauuuugcucugcuuA....................................................................   2       1    seq
    ...............augguccauuuugcucugcuuU....................................................................   5       1    seq
    ...............auAguccauuuugcucugcuuc.....................................................................   17      1    seq
    ...............augguccauuuugcucugcuuc.....................................................................   5       0    seq
    ...............auAguccauuuugcucugcuucu....................................................................   2       1    seq
    ...............augguccauuuugcucugcuucu....................................................................   2       0    seq
    ...............augguccauuuugcucugcuuAu....................................................................   1       1    seq
    ...............augguccauuuugcucugcuucA....................................................................   4       1    seq
    ...............augguccauuuugcucugcuuUu....................................................................   1       1    seq
```

```
                    Mature                    Star
guucuuugcucaggguuaugcaugguccauuuugcucugcuucugaaagcugaguacuuugcaagcagagcaaaacggaccaugcauaaccugggcaaaaccaugaaccauug
.......................................................agcagagcaaaacggaccNug.............................   1       1    seq
.......................................................agcagagcaaaacggaccaug.............................   1       0    seq
.......................................................agcagagNaaaacggaccaug.............................   1       1    seq
.......................................................agcagagcaaaacggaccaugc............................   6       0    seq
.......................................................agcagagcaaaacggaccaugU............................   1       1    seq
.......................................................gcagagcaaaacggaccaug..............................   4       0    seq
.......................................................Ucagagcaaaacggaccaug..............................   1       1    seq
.......................................................gcagagcaaaacggaccaugc.............................   7       0    seq
.......................................................gcagagcaaaacggaccaugU.............................   1       1    seq
.......................................................gcagagcaaaacggaccaugcU............................   1       1    seq
.......................................................gcagagcaaaacggaccaugca............................   1       0    seq
.......................................................gcagagcaaaacggaccaugcaA...........................   1       1    seq
.......................................................cagagcaaaacggaccaugc..............................   1       0    seq
.............................................................aaaacggaccaugcauaaccu.......................   2       0    seq
```

novel-mir-candidate-78

Provisional ID	:	chr5_13887
Score total	:	56.9
Score for star read(s)	:	3.9
Score for read counts	:	49.6
Score for mfe	:	2.5
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	109
Mature read count	:	41
Loop read count	:	0
Star read count	:	68

```
                    Mature                  Star
5'- cucagacugaccuucuucucucugccauugacccauuauugauuucuugggagaucaauaaugggccaauggcagagagaaggagagauccuucuuugcagaauccuucu  -3'   obs
    cucagacugaccuucuucucucugccauugacccauuauugauuucuugggagaucaauaaugggccaauggcagagagaaggagagauccuucuuugcagaauccuucu        exp
    ...(((..((((((((((((((((((((((.((((((((((((((((....))))))))))))))))))).))))))))))))))))))))))).).)).)).))).............   reads     mm        sample
    ....................ucugccauugacccauuau.......................................................................   1         0         seq
    ....................ucugccauugacccauuauu......................................................................   2         0         seq
    ....................ucugccauugGcccauuauug.....................................................................   1         1         seq
    ....................ucugccauugacccauuauug.....................................................................   2         0         seq
    ....................ucugccauugacccauuauuga....................................................................   18        0         seq
    ....................ucugccauugGcccauuauuga....................................................................   10        1         seq
    ....................ucugccauugacccauuauugA....................................................................   1         1         seq
    ......................cugccauugGcccauuauuga....................................................................   1         1         seq
    ......................cugccauugacccauuauugau...................................................................   2         0         seq
    ......................cugccauugacccauuauugauu..................................................................   1         0         seq
    ......................cugccauugacccauuauugauG..................................................................   1         1         seq
    .......................ugccauugacccauuauugauG..................................................................   1         1         seq
    ...................................uuauugGuuucuugggag.........................................................   1         1         seq
    ..........................................................aucaauaaugggccaauggc...............................   1         0         seq
    ..........................................................ucaauaaugggccaauggcagU.............................   1         1         seq
    ..........................................................ucaauaaugggccaauggcaga.............................   2         0         seq
    ..........................................................ucaauaaugggUcaauggcaga.............................   9         1         seq
    ..........................................................ucaauaaugggUcaauggcagag............................   2         1         seq
    ..........................................................ucaauaaugggccaauggcagaU............................   1         1         seq
    ..........................................................ucaauaaugggccaauggcagaga...........................   1         0         seq
    ...........................................................caauaaugggccaauggcagagU...........................   1         1         seq
    ...........................................................aauaaugggUcaauggcaga..............................   4         1         seq
    ...........................................................aauaaugggccaauggcaga..............................   2         0         seq
    ...........................................................aauaaugggUcaauggcagag.............................   3         1         seq
    ...........................................................aauaaugggUcaauggcagaga............................   8         1         seq
    ...........................................................aauaaugggccaauggcagaga............................   4         0         seq
    ...........................................................aauaaugggccaauggcaAaga............................   1         1         seq
    ...........................................................aauaaugggccaauggcagagU............................   3         1         seq
    ...........................................................aauaaugggccaauggcagagaA...........................   1         1         seq
    ............................................................auaaugggUcaauggcagaga...........................   2         1         seq
    ............................................................auaaugggccaauggcagaga...........................   1         0         seq
    ............................................................auaaugggUcaauggcagagag..........................   5         1         seq
    ............................................................auaaugggUcaauggcagagaga.........................   11        1         seq
```

```
                    Mature                  Star
cucagacugaccuucuucucucugccauugacccauuauugauuucuugggagaucaauaaugggccaauggcagagagaaggagagauccuucuuugcagaauccuucu
.......................................................auaaugggccaauggcagagaAa...............................   1         1         seq
.......................................................uaaugggUcaauggcagagag.................................   1         1         seq
.......................................................uaaugggUcaauggcagagaga................................   3         1         seq
.......................................................uaaugggUcaauggcagagagaa...............................   1         1         seq
.........................................................aauggcagagagaaggag..................................   2         0         seq
.........................................................auggcagagagaaggaga..................................   1         0         seq
.........................................................auggcagagagaaggagaA.................................   1         1         seq
```

novel-mir-candidate-56

Provisional ID	:	chr7_18838
Score total	:	87.6
Score for star read(s)	:	3.9
Score for read counts	:	80.7
Score for mfe	:	2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	170
Mature read count	:	166
Loop read count	:	0
Star read count	:	4

Mature **Star**

```
5'- guugacucugggcaguagcaucuuuuccucaccucguauugccaguaacuggagcaauaugagguagggagaagaugucuccaugaccugcuccuucagaagcucugugcu  -3'   obs
    guugacucugggcaguagcaucuuuuccucaccucguauugccaguaacuggagcaauaugagguagggagaagaugucuccaugaccugcuccuucagaagcucugugcu        exp
    ......((((((.(((((((((((((((.((((((((((((((...)))..)))))))))))).))))))))))).........)))))))..)))))((.....)))   reads     mm        sample
    ....................ucuuuuccucaccucguauu.......................................................................   6         0         seq
    ....................ucuuuuccucaccucguaNug......................................................................   1         1         seq
    ....................ucuuuuccucaccucguauug......................................................................   98        0         seq
    ....................ucuuuuccucaccucguCuug......................................................................   1         1         seq
    ....................ucuuuuccucaccucguauugU.....................................................................   3         1         seq
    ....................ucuuuuccucaccucguauugc.....................................................................   10        0         seq
    ....................ucuuuuccucaccucguauugA.....................................................................   32        1         seq
    ....................ucuuuucAucaccucguauugc.....................................................................   1         1         seq
    ....................ucuuuuccucaccucguauugcA....................................................................   1         1         seq
    ....................cuuuuccucaccucguauu........................................................................   2         0         seq
    ....................cuuuuccucaccucguauug.......................................................................   5         0         seq
    ....................cuuuuccucaccucguauugc......................................................................   2         0         seq
    ....................cuuuuccucaccucguauugA......................................................................   1         1         seq
    ....................cuuuuccucaccucguauugcU.....................................................................   1         1         seq
    ....................uuuuccucaccucguauugA.......................................................................   2         1         seq
    ..........................................................aauaugagguagggagaaA...............................   1         1         seq
    ..........................................................aauaugagguagggagaagau.............................   1         0         seq
    ..........................................................auaugagguagggagaagaugu............................   2         0         seq
```

novel-mir-candidate-255

Provisional ID	:	chr6_16638
Score total	:	2.2
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.5
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	33
Mature read count	:	33
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- gugcucagggauuaagggaaaaauccuuaacagaucucaaaaggccucgcauggcuccagcggcuaugugGAUCCAUGCAAGGCCUUUUGGGGUCUGUUAAGGAAUUUUC  -3'   exp
    ................(((((.(((((((((((((((((((((.((((((.((((.((....)))))).)))))).)))))))))))))))))))))).)))))   reads     mm        sample
    ...........................................................GAUCCAUGCAAGGCCUUU.....................   2         0         seq
    ...........................................................GAUCCAUGCAAGGCCUUUUG....................   14        0         seq
    ...........................................................GAUCCAUGCAAGUCCUUUUGGG..................   1         1         seq
    ...........................................................GAUCCAUGCAAGGCCUUUUGGG..................   1         0         seq
    ...........................................................GAUCCAUGCAGGGCCUUUUGGG..................   1         1         seq
    ...........................................................GAUCCAUGCAAGGCCUUUUGGGA.................   7         1         seq
    ...........................................................GAUCCAUGCAAGGCCUUUUGGGU.................   4         1         seq
    ............................................................AUCCAUGCAAGGCCUUUUG....................   1         0         seq
    ............................................................AUCCAUGCAAGGCCUUUUGGGA.................   1         1         seq
    ............................................................AUCCAUGCAAGGCCUUUUGGGC.................   1         1         seq
```

novel-mir-candidate-433

Provisional ID	:	chr22_44470
Score total	:	1.1
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.6
Score for randfold	:	-2.2
Score for cons. seed	:	3
Total read count	:	45
Mature read count	:	45
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- gaccuucugggagccagcggagccuucacaggucagcuuggggccucuggguacagcaugaaugaagcugcauccuuugggccguggccaacuccccccugcccccgucucccc  -3'   exp
    ........(((((...((((.((.......(((..(((...(((((..((((.((((.........)))).))))..)))))..)))..)))......))..)))))))))).   reads    mm       sample
    ...........................................................caucccuuugggccguggcca.......................   2        0        seq
    ...........................................................caucccuuugggccUuggcca.......................   1        1        seq
    ...........................................................caucccuuugggccguggccaa......................   2        0        seq
    ...........................................................caucccuuugggccguggccaac.....................   4        0        seq
    ...........................................................caucccuuugggccguggccaaA.....................   1        1        seq
    ...........................................................caucccuuugggccguggccNacu....................   1        1        seq
    ...........................................................caucccuuugggccguggccaacu....................   28       0        seq
    ...........................................................caucccuuugCgccguggccaacu....................   1        1        seq
    ...........................................................caucccuuugggccUuggccaacu....................   1        1        seq
    ...........................................................caucccuuugggccguggccaacuU...................   1        1        seq
    ...........................................................caucccuuugggccguggccaacuA...................   1        1        seq
    ...........................................................caucccuuugggccguggccaacuc....................   1        0        seq
    ...........................................................caucccuuugggccguggccaacucU...................   1        1        seq
    ..................................................................ccguggccaacucccccugcccc.........   1        0        seq
```

novel-mir-candidate-438

Provisional ID	:	chr9_22559
Score total	:	1.1
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.4
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	16
Mature read count	:	16
Loop read count	:	0
Star read count	:	0

Mature Star

```
5'- uacauugagugccuuggaugagacacugagacuuucugguuuuaaguaccagcucagccacagugggguaaggcaucaaguggcucuuggguccuugauuccaggac  -3'   exp
    ..((((..(((((((((.......(((((.(.((..(((((.......)))))...)).).)))))..)))))))..))))...((((((((((...)))))))))).   reads    mm    sample
    ....................agacacugagacuuucug.......................................................................   16       0     seq
    ......................................................................gcaCcaaguggcucuug...................   1        1     seq
```

novel-mir-candidate-145

Provisional ID	:	chr13_30709
Score total	:	27.8
Score for star read(s)	:	3.9
Score for read counts	:	21
Score for mfe	:	1.9
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	53
Mature read count	:	49
Loop read count	:	0
Star read count	:	4

Mature Star

```
5'- caucaagaggcauuucagcaauugcaauggacaugaacucuuuugauagaauaguuuauugucgauugcaauuucugaaauagccuacugaauuaaaaaaagcuaugaaagc  -3'   obs
    caucaagaggcauuucagcaauugcaauggacaugaacucuuuugauagaauaguuuauugucgauugcaauuucugaaauagccuacugaauuaaaaaaagcuaugaaagc        exp
    ..(((..((((((((((.(((((((((.(((((((((.((((...)))).))))))))))).))))))))).))))))).))))..)))..........(((.....)))   reads    mm    sample
    ...............cagcaauugcaauggacaugaacu.......................................................................   1        0     seq
    ................gcaauugcaauggacaugaac........................................................................   1        0     seq
    ................gcaauugcaauggacaugaacu.......................................................................   1        0     seq
    ..................caauugcaauggacaugaacu......................................................................   3        0     seq
    ..................aauugcaaugAacaugaacucu.....................................................................   1        1     seq
    ..................aauugcaauggacaugaacucu.....................................................................   1        0     seq
    ...................auugcaauggacaugaacuc......................................................................   1        0     seq
    ...................Cuugcaauggacaugaacucu.....................................................................   2        1     seq
    ...................auugcaGuggacaugaacucu.....................................................................   1        1     seq
    ...................auugcaauggacaugaacucu.....................................................................   37       0     seq
    .....................ugcaaAggacaugaacuc......................................................................   3        1     seq
    ......................................................uaguuuauugucgauugcaauuu...............................   2        0     seq
    .......................................................aguuuauugucgauugcaauuu................................   1        0     seq
    ........................................................uauguc gauugcaauuucuga...............................   1        0     seq
    ............................................................auugcaauuucugaaauagccu..........................   1        0     seq
```

novel-mir-candidate-8

Provisional ID	:	chr19_41452
Score total	:	569.2
Score for star read(s)	:	3.9
Score for read counts	:	566.5
Score for mfe	:	1.6
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	1123
Mature read count	:	1076
Loop read count	:	2
Star read count	:	45

```
                                   Star                                   Mature
5'- uccccuucccuuggguaguccgcggccgccuugcucuaugguc gggu accugacgguggaacgggcgcucugcacgcgaccauagagccuucccccuccc gaaagacauccag  -3'    obs
    uccccuucccuuggguaguccgcggccgccuugcucuaugguc gggu accugacgugguggaacgggcgcucugcacgcgaccauagagccuucccccuccc gaaagacauccag         exp
    ...........(((((.(((..(((.......((((((((((.(((.(..(((((.......))).)).).)).))))))))))))..........)))...)))))))).   reads     mm        sample
    .ccccuucccuuggguaguccgcggccg.......................................................................................   1         0         seq
    .ccccuucccuuggguaguccgcggccgccuugc.................................................................................   1         0         seq
    ..cccuucccuuggUuaguccgcggcc........................................................................................   1         1         seq
    ....cuucccuuggguaguccgcggccg.......................................................................................   1         0         seq
    ......uccccuuggguaguccgcggc........................................................................................   1         0         seq
    .......cccuuggguaguccgcggc.........................................................................................   1         0         seq
    .......cccuuggguaguccgcggccgccuu...................................................................................   1         0         seq
    ..........uuggguaguccgcggccg.......................................................................................   1         0         seq
    ..............guaguccgcggccgccuugcuc..............................................................................   1         0         seq
    ...................ccgcggccgccuugcucu..............................................................................   1         0         seq
    ...................ccgcggccgccuugcucuauggucggg.....................................................................   1         0         seq
    ....................cgcggccgccuugcucuaug...........................................................................   1         0         seq
    ....................cgcggccgccuugcucuauggucggguaccuga..............................................................   1         0         seq
    .....................cggccgccuugcucuauggucggg......................................................................   2         0         seq
    .....................cggccgccuugcucuauggucggguaccug................................................................   3         0         seq
    ......................gccgccuugcucuauggucggguaccu...................................................................   1         0         seq
    ......................gccgccuugcucuauggucggguaccuga.................................................................   1         0         seq
    .......................ccgccuugcucuauggucggguaccuga................................................................   1         0         seq
    .......................cgccuugcucuauggucgggua......................................................................   1         0         seq
    .......................cgccuugcucuauggucggguaccuga.................................................................   2         0         seq
    .......................cgccuugcucuauggucggguaccgac.................................................................   1         0         seq
    .......................gccuugcucuauggucgggua......................................................................   1         0         seq
    ........................cuugcucuauggucggguacc.....................................................................   2         0         seq
    ........................uugcucuauggucgggua........................................................................   2         0         seq
    ........................uugcucuauggucggguacc......................................................................   1         0         seq
    ........................uugcucuauggucggguaccug....................................................................   3         0         seq
    ........................uugcucuauggucggguaccuga...................................................................   5         0         seq
    ........................uugcucuauggucggguaccugacg.................................................................   1         0         seq
    ........................uugcucuauggucggguaccugacguggaacggg........................................................   1         0         seq
    .........................ugcucuauggucggguaccu.....................................................................   1         0         seq
    .........................ugcucuauggucggguaccuga...................................................................   11        0         seq
    .........................ugcucuauggucUgguaccuga...................................................................   1         1         seq
    ..........................gcucuauggucggguaccu....................................................................   1         0         seq
```

```
                                   Star                                   Mature
uccccuucccuuggguaguccgcggccgccuugcucuaugguc gggu accugacgugguggaacgggcgcucugcacgcgaccauagagccuucccccuccc gaaagacauccag
.............................gcucuauggucgggu accug.....................................................   1         0         seq
.............................gcucuauggucgggu accuga....................................................   2         0         seq
.............................gcucuauggucgggu acGugac...................................................   1         1         seq
.............................gcucuauggucgggu accugac...................................................   1         0         seq
.............................cucuauggucgggu accug......................................................   3         0         seq
.............................cucuauggucgggu accuga.....................................................   1         0         seq
.............................cucuauggucgggu accugacg...................................................   1         0         seq
.............................cucuauggucgggu accugacguggaacgggcgc.......................................   1         0         seq
.............................ucuauggucgggu accuga......................................................   1         0         seq
.............................ucuauggucgggu accugacg....................................................   1         0         seq
.............................ucuauggucgggu accugacguggaacgggGgcuc......................................   1         1         seq
............................cuauggucgggu accuga.......................................................   3         0         seq
............................cuauggucgggu accugacguggCacggg............................................   1         1         seq
...........................uauggucgggu accugac........................................................   1         0         seq
...........................uauggucgggu accugacg.......................................................   1         0         seq
..........................uggucgggu accugacguggaacggg.................................................   1         0         seq
..........................uggucgggu accugacguggaacggcgcu..............................................   1         0         seq
..........................uggucgggu accugacguggaacggcgcucug...........................................   1         0         seq
.........................gucgggu accugacguggaacggg....................................................   1         0         seq
.........................gucgggu accugacguggaacggcgcu................................................   1         0         seq
........................cgggu accugacguggaacggcgcuc.................................................   1         0         seq
.......................accugacguggaacggcgcuc........................................................   1         0         seq
.......................accugacguggaacggcgcucu.......................................................   1         0         seq
.......................accugacguggaacggcgcucugc.....................................................   1         0         seq
.......................accugacguggaacggcgcucugcacU..................................................   1         1         seq
.......................accugacguggaacggcgcucugcacgcgaccauagaA.......................................   1         1         seq
.......................accugacguggaacggcgcucugcacgcgaccauagagccuuG..................................   1         1         seq
.......................ccugacguggaacggcgcucu........................................................   1         0         seq
.......................gacguggaacggcgcucugcacgcgaccaua..............................................   1         0         seq
.......................gacguggaacggcgcucugcacgcgaccauagagccu........................................   1         0         seq
.......................acguggaacggcgcucugcacgcgacca................................................   1         0         seq
.......................guggaacggcgcucugc...........................................................   1         0         seq
.......................guggaacggcgcucugcac.........................................................   1         0         seq
.......................gaacggcgcucugcacg...........................................................   3         0         seq
.......................gaacggcgcucugcacgcgac.......................................................   1         0         seq
.......................aacggcgcucugcacgcgaccauCgagccu..............................................   1         1         seq
.......................acggcgcucugcacgcgaccauagagccu...............................................   2         0         seq
.......................cggcgcucugcacgcgaccauag.....................................................   1         0         seq
.......................cggcgcucugcacgcgaccauagagccu................................................   1         0         seq
.......................gcucugcacgcgaccauagagccuuccccu..............................................   2         0         seq
.......................cgcucugcacgcgaccauagagc.....................................................   1         0         seq
.......................gcucugcacgcgaccauagagccu....................................................   1         0         seq
.......................cucugcacgcgaccauagagcc......................................................   4         0         seq
.......................cucugcacgcgaccauagagccu.....................................................   4         0         seq
.......................cucugcacgcgaccauagagccuu....................................................   1         0         seq
.......................cucugcacgcgaccauagagccuuc...................................................   1         0         seq
.......................cucugcacgcgaccauagagccuuccc.................................................   1         0         seq
.......................cucugcacgcgaccauagagccuuccccu...............................................   2         0         seq
.......................ucugcacgcgaccauaga..........................................................   1         0         seq
.......................ucugcacgcgaccauagagc........................................................   2         0         seq
.......................ucugcacgcgaccauagagccA......................................................   1         1         seq
.......................ucugcacgcgaccauagagccu......................................................   1         0         seq
.......................ucugcacgcgaccauagagccuu.....................................................   2         0         seq
.......................cugcacgcgaccauagag..........................................................   1         0         seq
.......................cugcacgcgaccauagagc.........................................................   5         0         seq
.......................cugcacgcgaccauagagcc........................................................   4         0         seq
.......................cugcacgcgaccauagagccu.......................................................   6         0         seq
.......................cugcacgcgaccauagagccuu......................................................   7         0         seq
.......................cugcacgcgaccauagagccuuc.....................................................   2         0         seq
.......................cugcacgcgaccauagagccuuA.....................................................   1         1         seq
.......................cugcacgcgaccauagagccuuU.....................................................   1         1         seq
.......................cugcacgcgaccauagagccuucc....................................................   1         0         seq
.......................cugcacgcgaccauagagccuuccc...................................................   2         0         seq
.......................cugcacgcgaccauagagccuuccccu.................................................   1         0         seq
.......................cugcacgcgaccauagagccuuccccucccga............................................   1         0         seq
.......................ugcacgcgaccauagagc..........................................................   4         0         seq
.......................ugcacgcgaccauagagUc.........................................................   2         1         seq
.......................ugcacgcgaccauagagcc.........................................................   10        0         seq
.......................ugcacgcgaccauagagccA........................................................   4         1         seq
.......................ugcacgcgaccauCgagccu........................................................   1         1         seq
```

Star Mature

uccccuuccccuuggguaguccgcggccgccuugcucuaugguc gggua ccuga cguggaacgggcgcucugcacgcgaccauagagccuucccccuccgaaagacauccag

.....ugcacgcgaccauagagccu.....	121	0	seq
.....ugcacgcgaccauagagccG.....	3	1	seq
.....ugcacgcgaccauagagcNuu.....	2	1	seq
.....Agcacgcgaccauagagccuu.....	1	1	seq
.....ugUacgcgaccauagagccuu.....	1	1	seq
.....ugcacgcgaccauagagccCu.....	1	1	seq
.....ugcacgcgaccauagagccAu.....	3	1	seq
.....ugcacgcgaccauagagccuu.....	149	0	seq
.....ugcacgGgaccauagagccuu.....	1	1	seq
.....ugcacgcgacAauagagccuu.....	1	1	seq
.....ugcacgcgaccauagagccuA.....	4	1	seq
.....ugcacgcgaccauaAagccuu.....	1	1	seq
.....ugcaGgcgaccauagagccuu.....	1	1	seq
.....ugcacgcgaccauagagccuuU.....	138	1	seq
.....ugUacgcgaccauagagccuuc.....	1	1	seq
.....ugcacgcgaccauagagccuuA.....	16	1	seq
.....uUcacgcgaccauagagccuuc.....	2	1	seq
.....Ggcacgcgaccauagagccuuc.....	1	1	seq
.....ugcacgcgaccauagagcUuuc.....	1	1	seq
.....ugcacgcgaccauagagccuuG.....	1	1	seq
.....ugcacgcgaccauagagUcuuc.....	2	1	seq
.....ugcacgcgUccauagagccuuc.....	1	1	seq
.....ugcacgcgaccauagagccuuc.....	339	0	seq
.....ugcacgcgaccauagagAcuuc.....	1	1	seq
.....ugcacgcgaccauagagcAuuc.....	1	1	seq
.....uAcacgcgaccauagagccuuc.....	2	1	seq
.....ugcacCcgaccauagagccuucc.....	1	1	seq
.....ugcaNgcgaccauagagccuucc.....	1	1	seq
.....ugcacgcgaccauagagccuucU.....	53	1	seq
.....ugcacgcgaccauagagccuucc.....	56	0	seq
.....ugcacgcgaccauagagccuucA.....	38	1	seq
.....ugcacgcgaccauagagccuuUc.....	2	1	seq
.....Ggcacgcgaccauagagccuucc.....	1	1	seq
.....uUcacgcgaccauagagccuucc.....	1	1	seq
.....ugcacgcgaccauagagccuucG.....	1	1	seq
.....ugcacgcgaccauagagccuuccc.....	14	0	seq
.....ugcacgcgaccauagagccuuccU.....	7	1	seq
.....ugcacgcgaccauagagccuuccA.....	3	1	seq
.....ugcacgcgaccauagagccuucccU.....	2	1	seq
.....ugcacgcgaccauagagccuucccA.....	1	1	seq
.....ugcacgcgaccauagagccuuccccu.....	1	0	seq
.....ugcacgcgaccauagagccuucccAu.....	1	1	seq
.....gcacgcgaccauagagcc.....	1	0	seq
.....gcacgcgaccauagagccuuc.....	2	0	seq
.....gcacgcgaccauagagccuuccc.....	2	0	seq
.....gcacgcgaccauagagccuuccccu.....	1	0	seq
.....gcacgcgaccauagagccuuccccucccg.....	1	0	seq
.....cacgcgaccauagagccu.....	5	0	seq
.....cacgcgaccauagagccuu.....	2	0	seq
.....cacgcgaccauagagccuucc.....	2	0	seq
.....cacgcgaccauagagccuuccc.....	4	0	seq
.....cacgcgaccauagagccuuccccucccg.....	1	0	seq
.....acgcgaccauagagccuuc.....	1	0	seq
.....acgcgaccauagagccuuccc.....	3	0	seq
.....acgcgaccauagagccuuccccu.....	3	0	seq
.....acgcgaccauagagccuuccccucccc.....	1	0	seq
.....acgcgaccauagagccuuccccucccgaa.....	1	0	seq
.....acgcgaccauagagccuuccccucccgaaa.....	1	0	seq
.....acgcgaccauagagccuuccccucccgaaagacauccag	1	0	seq
.....cgcgaccauagagccuucc.....	1	0	seq
.....cgcgaccauagagccuuccc.....	4	0	seq
.....cgcgaccauagagccuuccccc.....	1	0	seq
.....cgcgaccauagagccuuccccuc.....	1	0	seq
.....cgcgaccauagagccuuccccucccgaa.....	1	0	seq
.....cgcgaccauagagccuuccccucccgaaagac.....	1	0	seq
.....gcgaccauagagccuuccccucccgaaagacauccag	2	0	seq
.....gcgaccauagagccuuccccucccgaaagacCuccag	1	1	seq
.....cgaccauagagccuuccc.....	3	0	seq
.....cgaccauagagccuuccccu.....	1	0	seq
.....accauagagccuuccccu.....	2	0	seq

Star Mature

uccccuuccccuuggguaguccgcggccgccuugcucuaugguc gggua ccuga cguggaacgggcgcucugcacgcgaccauagagccuucccccuccgaaagacauccag

.....cccucccgaGagacauccag	1	1	seq

novel-mir-candidate-409

Provisional ID	:	chr1_2361
Score total	:	1.3
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.6
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	515
Mature read count	:	515
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- aagggcacauauuggucuguugucaggcucagcagcauggcugacuaaagacauugacaucaugacauugucauguugcucugcuguugcccccuggcucuagcuggccu  -3'   exp
    .............((((.(((((((((..(((((((((.(((.(((....((((.((.(((...)).)).)))).)))))))..))))))).))))))))..))))))...))).)))).
```

reads	mm	sample
1	0	seq
1	0	seq
5	0	seq
1	1	seq
1	0	seq
1	1	seq
1	0	seq
1	0	seq
1	0	seq
1	1	seq
1	0	seq
8	0	seq
1	1	seq
27	0	seq
1	1	seq
4	1	seq
1	1	seq
165	0	seq
7	1	seq
1	1	seq
2	1	seq
2	1	seq
1	1	seq
3	1	seq
1	1	seq
1	1	seq
1	1	seq
91	1	seq
5	1	seq
190	1	seq
1	1	seq

novel-mir-candidate-294

Provisional ID	:	chr19_39735
Score total	:	1.9
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	406
Mature read count	:	394
Loop read count	:	0
Star read count	:	12

Star Mature

```
5'- ucgagggucuccugugcacgacccucgggggcucucccagaggccgcacagcaggaaccucacauuggaugguaucugcuguuguccccucaggcccagcccccaagccacc  -3'    obs
    ucgagggucuccugugcacgacccucgggggcucucccagaggccgcacagcaggaaccucacauuggaugguaucugcuguuguccccucaggcccagcccccaagccacc          exp
    ..(((((((..........)))))))(((((((..((.((((..((((((((((.((.((.......)).)).)))))))..)))..))))..))...)))))))........
```

	reads	mm	sample
....gacccucgggCgcucuccag....	1	1	seq
....cuccagaggccgcacagcagga....	1	0	seq
....uccagaggccgcacagcagga....	2	0	seq
....uccagaggccgcacagcaggaa....	2	0	seq
....uccagaggccgcacagcaggaaA....	1	1	seq
....uccagaggccgcacagcaggaac....	1	0	seq
....ccagaggccgcacagcaggaac....	6	0	seq
....ccagaggccgcacagcaggaacc....	1	0	seq
....cagaggccgcacagcaggaacc....	3	0	seq
....cagaggccgcacagcaggaacU....	1	1	seq
....agaggccgcacagcaggaacc....	1	0	seq
....auuggauguaucugcuguuguccccucU....	1	1	seq
....auuggauguaucugcuguuguccccucagA....	2	1	seq
....uuggauguaucugcuguuguccccu....	1	0	seq
....uuggauguaucugcuguuguccccucag....	1	0	seq
....uaucugcuguuguccccu....	3	0	seq
....uaucugcuguuguccccuU....	1	1	seq
....uaucugcuguuguccccucU....	1	1	seq
....uaucugcuguuguccccuca....	5	0	seq
....uaucugcuguuguccAcuca....	1	1	seq
....uaucugcuguuguccccucaU....	1	1	seq
....uaucugcuguuguccccucaA....	2	1	seq
....uaucugcuguuguccccucag....	112	0	seq
....Naucugcuguuguccccucag....	1	1	seq
....uaucugcuguuguccccucaAg....	3	1	seq
....uaucugcuguuguccccucagg....	2	0	seq
....uaucugcuguuguccccucagA....	164	1	seq
....uaucugcuguuguccccucagU....	95	1	seq
....uaucugcuguuguccccAcagg....	1	1	seq
....ucugcuguuguccccucag....	1	0	seq
....gcuguugucGccucaggc....	1	1	seq

novel-mir-candidate-12

Provisional ID	:	chr19_40046
Score total	:	417.5
Score for star read(s)	:	3.9
Score for read counts	:	410
Score for mfe	:	2.6
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	816
Mature read count	:	803
Loop read count	:	0
Star read count	:	13

```
                    Mature                  Star
5'- gccuauuggagugugugucugugugugcaccugugucugucuguauucguguguauagacagacgcagguacacacagauacauacucagauccaugggucucugugcucuc  -3'   obs
    gccuauuggagugugugucugugugugcaccugugucugucuguauucguguguauagacagacgcagguacacacagauacauacucagauccaugggucucugugcucuc        exp
    ((((((..((((((((((((((((((..((((((((((((((((.......)))))))))))))))))))))))))))))))))))))))))))))))))))))))))).....  reads   mm   sample
    ........gUgugugugucugugugug.....................................................................................  1       1    seq
    ................ugucugugugugcacAug.............................................................................  1       1    seq
    ................ucugugugugcaccugugucuguc........................................................................  1       0    seq
    ...................cugugugugcaccugugucugu.......................................................................  1       0    seq
    ...................ugugugugcaccugugucugu.......................................................................  1       0    seq
    ...................ugugugugcaccugugucugcug.....................................................................  1       0    seq
    ...................gugugugcaccugugucugu........................................................................  10      0    seq
    ...................gugugugcaccugugucuguA.......................................................................  1       1    seq
    ...................gugugugcaccugugucuguc.......................................................................  19      0    seq
    ...................Ugugugugcaccugugucugucu.....................................................................  1       1    seq
    ...................gugugugcaccugugucugucA......................................................................  6       1    seq
    ...................gugugugcaccugugucugucu......................................................................  56      0    seq
    ...................gugugugcaccugugucugucug.....................................................................  20      0    seq
    ...................gugugugcaccugugucugucuA.....................................................................  1       1    seq
    ...................Cugugugcaccugugucugucugu....................................................................  1       1    seq
    ...................gugugugcaccugugucuNucugu....................................................................  1       1    seq
    ...................gugugugcaccugugucugucugA....................................................................  108     1    seq
    ...................gGugugugcaccugugucugucugu...................................................................  1       1    seq
    ...................Augugugcaccugugucugucugu....................................................................  1       1    seq
    ...................gugugugcaccugugucGgucugu....................................................................  1       1    seq
    ...................gugugugcaccugugucugucugu....................................................................  181     0    seq
    ...................Uugugugcaccugugucugucugu....................................................................  2       1    seq
    ...................gugugugcaccuUugucugucugu....................................................................  3       1    seq
    ...................gugugAgcaccugugucugucugu....................................................................  1       1    seq
    ...................gugugugcaccugugucugucugC....................................................................  7       1    seq
    ...................guguUugcaccugugucugucugu....................................................................  2       1    seq
    ...................gugugugcaccugugucugucugua...................................................................  5       0    seq
    ...................gugugugcaccugugucugucguU....................................................................  15      1    seq
    ...................gugugugcaccugugucugucgAa....................................................................  6       1    seq
    ...................gugugugcaccugugucugucguUu...................................................................  3       1    seq
    ...................gugugugcaccugugucugucguaA...................................................................  12      1    seq
    ...................gugugugcaccugugucugucguau...................................................................  2       0    seq
    ...................gugugugcaccugugucugucgAau...................................................................  3       1    seq
```

```
                    Mature                  Star
gccuauuggagugugugucugugugugcaccugugucugucuguauucguguguauagacagacgcagguacacacagauacauacucagauccaugggucucugugcucuc
....................gugugugcaccugugucugucuguaAu...................................................  1       1    seq
....................gugugugcaccugugucugucuguauu...................................................  2       0    seq
....................ugugugugcaccugugucugu.........................................................  1       0    seq
....................ugugugugcaccugugucuguc........................................................  4       0    seq
....................ugugugugcaccugugucuguA........................................................  1       1    seq
....................ugugugugcaccugugucugucG.......................................................  1       1    seq
....................ugugugugcaccugugucugucA.......................................................  1       1    seq
....................ugugugugcaccugugucugucu.......................................................  12      0    seq
....................ugugugugcaccugugucugucug......................................................  14      0    seq
....................ugugugugcaccugugucugAcug......................................................  1       1    seq
....................uAugugugcaccugugucugucug......................................................  1       1    seq
....................uCugugugcaccugugucugucugu.....................................................  1       1    seq
....................ugugugugcaccugugucugNcugu.....................................................  1       1    seq
....................ugugugugcacCgugucugucugu......................................................  1       1    seq
....................ugugugugcaccugugucuguGugu.....................................................  1       1    seq
....................uUugugugcaccugugucugucugu.....................................................  2       1    seq
....................ugugugugcaccugugucugucugu.....................................................  110     0    seq
....................Ggugugugcaccugugucugucugu.....................................................  2       1    seq
....................ugugugugcaccugugucugucugA.....................................................  70      1    seq
....................ugugugugcaccugugucugucguU.....................................................  5       1    seq
....................ugugugugcaccugugucugucgua......................................................  8       0    seq
....................ugugugugcaccugugucugucgAa......................................................  5       1    seq
....................ugugugugcaccugugucugucgCa......................................................  1       1    seq
....................ugugugugcaccugugucugucguau.....................................................  5       0    seq
....................ugugugugcaccugugucugucguaA.....................................................  12      1    seq
....................ugugugugcaccugugucugucguaC.....................................................  1       1    seq
....................ugugugugcaccugugucugucgAauu....................................................  1       1    seq
....................ugugugugcaccugugucugucgu.......................................................  30      0    seq
....................ugugugugcaccugugucugucugu......................................................  1       1    seq
....................ugugugugcaccugugucugucgA.......................................................  5       1    seq
....................ugugugugcaccugugucugucgua......................................................  5       0    seq
....................ugugugugcaccugugucugucgAa......................................................  1       1    seq
....................ugugugugcaccugugucugucguau.....................................................  2       0    seq
....................ugugugugcaccugugucugucguaA.....................................................  10      1    seq
....................gugugugcaccugugucugucguauu.....................................................  1       0    seq
....................ugugugugcaccugugucugucguU......................................................  2       1    seq
....................ugugugugcaccugugucugucgua......................................................  3       0    seq
....................ugugugugcaccugugucugucguaA.....................................................  1       1    seq
....................ugugugugcaccugugucugucguauu....................................................  1       0    seq
....................ugugugugcaccugugucugucguau.....................................................  1       0    seq
....................gcaccugugucugucguaA............................................................  1       1    seq
....................gcaccugugucugucguauu...........................................................  1       0    seq
....................gcaccugugucugucguauuucg........................................................  1       0    seq
.......................................uagacagacgcagguacaca.........................................  1       0    seq
.......................................uagacagacgcagguacacac........................................  1       0    seq
.......................................uagacagacgcagguacacaca.......................................  3       0    seq
.......................................uagacagaUgcagguacacacag......................................  1       1    seq
.......................................agacagaUgcagguacaca..........................................  1       1    seq
.......................................agacagacgcagguacacaca........................................  1       0    seq
.......................................agacagaUgcagguacacacag......................................  1       1    seq
.......................................agacagacgcagguacacacagU.....................................  3       1    seq
.......................................acagacgcagguacacacagaA......................................  1       1    seq
...........................................acagauacauacucagauccaugggucucug...........................  1       0    seq
```

novel-mir-candidate-444

Provisional ID	:	chr7_18334
Score total	:	1
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.3
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	57
Mature read count	:	56
Loop read count	:	0
Star read count	:	1

Mature **Star**

```
5'- uuggguaauuagaguccauacaugcaagccauugagagacuuguuugcucaaaugcaaguuugcucaaaaacaggguccugaaggcuugcuuaggauuacagggaugcuggg  -3'   obs
    uuggguaauuagaguccauacaugcaagccauugagagacuuguuugcucaaaugcaaguuugcucaaaaacaggguccugaaggcuugcuuaggauuacagggaugcuggg        exp
    ............((((((.((...(((((((.((.((.((((((((((...(((((....)))))).....)))))))))))).)))))))))).))))))).(((.....))).. reads   mm   sample
    ...................acaugcaagccauugagagac.......................................................................  1      0    seq
    ...................acaugcaagccauugagagacu......................................................................  1      0    seq
    ...................acaugcaagccauugagagacuug....................................................................  3      0    seq
    ....................caugcaagccauugagagacu......................................................................  13     0    seq
    ....................caugcaagccauugagagacA......................................................................  1      1    seq
    ....................caugcaagccauugagagacuu.....................................................................  1      0    seq
    ....................caugNaagccauugagagacuug....................................................................  1      1    seq
    ....................caugcaagccauugagagacuug....................................................................  34     0    seq
    .....................augcaagccauugagagacuug.....................................................................  1      0    seq
    ..............................cauugagagacuuguuugcuc............................................................  1      0    seq
    ......................................................................aaaaacagguccugaaggcuugcuu......................  1      0    seq
    .......................................................................uccugaaggcuugcuuagg..................  1      0    seq
```

novel-mir-candidate-233

Provisional ID	:	chr14_32513
Score total	:	2.4
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.7
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	113
Mature read count	:	94
Loop read count	:	0
Star read count	:	19

Mature **Star**

```
5'- caugguauguaucugcuuuuccggaguuguaaguguugacaauauccagaaugacauugucuuuugucaacacuuacaacucuggaaaagcagauacauaccauaaggguau  -3'   obs
    caugguauguaucugcuuuuccggaguuguaaguguugacaauauccagaaugacauugucuuuugucaacacuuacaacucuggaaaagcagauacauaccauaaggguau        exp
    .((((((((((((((((((((((((((((((((((((((.....................)))))))))))))))))))))))))))))))))))))).........  reads   mm   sample
    ...........ucugcuuuuccgUaguugua.......................................................................  1       1    seq
    ...........ucugcuuuuccggaguuguaaA.....................................................................  1       1    seq
    ...............cuuuuccggaguuguaaguguuA...............................................................  2       1    seq
    .................uuuccggaguuguaaguguug................................................................  1       0    seq
    .................uuuccggaguuguaaguguugA...............................................................  1       1    seq
    .................uuuccggaguuguaaguguugac..............................................................  2       0    seq
    .................uuuccggaguuguaaguguugaca.............................................................  2       0    seq
    ..................uuccggaguuguaaguguuga...............................................................  1       0    seq
    ..................uuccggaguuguaaguguugac..............................................................  3       0    seq
    ..................Guccggaguuguaaguguugac..............................................................  1       1    seq
    ..................uuccggaguuguaaguguugA...............................................................  1       1    seq
    ..................uuccggaguuguaaguguugaca.............................................................  4       0    seq
    ..................uccggaguuguaaguguuga................................................................  4       0    seq
    ..................uccggaguuguaaguguugac...............................................................  4       0    seq
    ..................uccggaguuguaaguguuCaca..............................................................  1       1    seq
    ..................uccggaguuguaaguguugaca..............................................................  28      0    seq
    ..................uccggaguuguaaguguugacaa.............................................................  3       0    seq
    ...................ccggaguuguaaguguugacU...............................................................  3       1    seq
    ...................ccggaguuguaaUuguugaca...............................................................  2       1    seq
    ...................ccggaguuguaaguguugacG...............................................................  1       1    seq
    ...................ccggaguuguaaguguugaca...............................................................  15      0    seq
    ...................ccggaguuguaaguguugacaa..............................................................  5       0    seq
    ...................ccggaguuguaaguguugacaau.............................................................  2       0    seq
    ...................ccggaguuguaaguguugacaauU............................................................  1       1    seq
    ....................cggaguuguaaguguugac................................................................  2       0    seq
    ....................cggaguuguaaguguugaca...............................................................  2       0    seq
    ....................cggaguuguaaguguugacaa..............................................................  4       0    seq
    .....................ggaguuguaaguguugacaaua............................................................  1       0    seq
    ..........................................ugucaacacuuacaacuc...........................................  4       0    seq
    ...........................................ucaacacuuacaacucuggaaG......................................  1       1    seq
    ..........................................ucaacacuuacaacucuggaaa.......................................  1       0    seq
    ...........................................ucaaUacuuacaacucuggaaa......................................  1       1    seq
    ............................................caacacuuacaacucuggaaa.....................................  1       0    seq
```

Mature **Star**

```
caugguauguaucugcuuuuccggaguuguaaguguugacaauauccagaaugacauugucuuuugucaacacuuacaacucuggaaaagcagauacauaccauaaggguau
.......................................................caacacuuacaacucuggaaaa.......................  1   0   seq
.......................................................caacacuuacaacucuggaaaU.......................  1   1   seq
.......................................................acacuuacaacucuggaaaag........................  1   0   seq
.......................................................acacuuacaacucuggaaaagc.......................  4   0   seq
.......................................................acacuuacaacucuggaaaagU.......................  3   1   seq
.......................................................acuuacaacucuggaaaagcaga......................  1   0   seq
.......................................................cuuacaacucuggaaaagcag........................  1   0   seq
.......................................................cuuacaacucuggaaaagcaga.......................  4   0   seq
.......................................................cuuacaacucuggaaaagcagau......................  1   0   seq
.......................................................uuacaacucuggaGaagcaga........................  1   1   seq
.......................................................uacaacucuggaaaagcagau........................  1   0   seq
```

novel-mir-candidate-323

Provisional ID	:	chr12_30050
Score total	:	1.8
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	110
Mature read count	:	37
Loop read count	:	0
Star read count	:	73

Star Mature

```
5'- ucuggugaccuggaccaagggaggacagcgagaggcagcucuggggcugugucccugacuccagcuaacccaggguacccucucgugcagcagugaggacagugacgagga  -3'   obs
    ucuggugaccuggaccaagggaggacagcgagaggcagcucugggcugugucccugacuccagcuaacccaggguacccucucgugcagcagugaggacagugacgagga        exp
    (((.((.((.((..(((..(...(.(((((((((((..(((((((((((((.(........)))))...)))))))))..))))))))))))..)..))).)..)))).)).))).
```

	reads	mm	sample
.....Ugacagcgagaggcagcu.....	1	1	seq
.....ggacagcgagaggcagcuc.....	3	0	seq
.....ggacagcgagaggcagcucug.....	1	0	seq
.....ggacagcgagaggcagcucuggg.....	1	0	seq
.....ggacagcgagaggcagcucugggU.....	1	1	seq
.....gacagcgagaggcagcAc.....	1	1	seq
.....gacagcgagaggcagcuc.....	6	0	seq
.....gacagcgagaggcagcucugU.....	1	1	seq
.....gacagcgagaggcagcucuggg.....	2	0	seq
.....acagcgagaggcagcucu.....	1	0	seq
.....acagcgagaggcagcuUu.....	1	1	seq
.....acagcgagaggcagcucug.....	4	0	seq
.....acagcgagaggcagcucugU.....	9	1	seq
.....acagcgagaggcagcucuggg.....	13	0	seq
.....acagcgagaggcagcucuggU.....	3	1	seq
.....Ccagcgagaggcagcucuggg.....	1	1	seq
.....acagcgagaggcagcucugggA.....	13	1	seq
.....acagcgagaggcagcucugggU.....	3	1	seq
.....acagcgagaggcagcucugggAcu.....	1	1	seq
.....cagcgagaggcagcucug.....	1	0	seq
.....cagcgagaggcagcucuggg.....	2	0	seq
.....cagcgagaggcagcucuggggcuA.....	2	1	seq
.....agcgagaggcagcucuggggcu.....	1	0	seq
.....Ugagaggcagcucuggggc.....	1	1	seq
.....caggguacccucucguugcag.....	4	0	seq
.....caggguacccucucguugcagU.....	28	1	seq
.....caggguacccucucguugcagA.....	1	1	seq
.....caggguacccucucguugcagUa.....	3	1	seq
.....caggguacccucucguugcagUag.....	1	1	seq

novel-mir-candidate-329

Provisional ID	:	chr8_21129
Score total	:	1.8
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	4322
Mature read count	:	4322
Loop read count	:	0
Star read count	:	0

Mature **Star**

```
5'- gccaauggggcgaaucugccaucuguggguauugacugaacauguccaagucagaauccccacucaggugggaaccuauggcagcgccacagagccuccaugggccuuguugg  -3'   exp
    .(((((((((.......((((((((((((((.(((((...........)))))).))))))))..)))))))...((((((.((.((......)))))))))))))))))))   reads    mm       sample
    ..caauggggcgaaucuAcc.......................................................................................   1        1        seq
    ..........cgaaGcugccaucuguggguauugacug.....................................................................   1        1        seq
    ..............ucuAccaucuguggguauugacuga...................................................................   3        1        seq
    ...............cugccaucuguggguauugacu.....................................................................   1        0        seq
    ................uCccaucuguggguauugac......................................................................   1        1        seq
    ................ugccaucuguggguauugacu.....................................................................   1        0        seq
    .................Cccaucuguggguauugac......................................................................   3        1        seq
    .................gccaucuguggguauugac......................................................................   1        0        seq
    .................gccaucuguggguauugaA......................................................................   1        1        seq
    .................gccaucuguggguauugacu.....................................................................   6        0        seq
    .................Cccaucuguggguauugacu.....................................................................   24       1        seq
    .................Nccaucuguggguauugacu.....................................................................   2        1        seq
    .................Uccaucuguggguauugacu.....................................................................   1        1        seq
    .................gccaucuguggguauugacA.....................................................................   1        1        seq
    .................gccCucuguggguauugacu.....................................................................   1        1        seq
    .................gccaucuguggguauugacug....................................................................   17       0        seq
    .................Cccaucuguggguauugacug....................................................................   2        1        seq
    .................gccaucuNugggauuaugacuga..................................................................   1        1        seq
    .................Cccaucuguggguauugacuga...................................................................   21       1        seq
    .................Uccaucuguggguauugacuga...................................................................   2        1        seq
    .................gccaucuguggguauugacuga...................................................................   82       0        seq
    .................gccaucuguggguauugacugC...................................................................   1        1        seq
    .................gccGucuguggguauugacuga...................................................................   1        1        seq
    .................gccaucuguggguauugNcuga...................................................................   1        1        seq
    .................Nccaucuguggguauugacuga...................................................................   1        1        seq
    .................gccaucuguggguauugacAga...................................................................   1        1        seq
    .................gccaucuguggguauugacugaU..................................................................   1        1        seq
    .................Cccaucuguggguauugacugaa..................................................................   3        1        seq
    .................gccaucuguggguauugacugCa..................................................................   1        1        seq
    .................gccaucuguggguauugUcugaa..................................................................   1        1        seq
    .................gccaucuguggguauGugacugaa.................................................................   1        1        seq
    .................gccaucuguggguauugacugaa..................................................................   54       0        seq
    .................gccaucuguggguauugacugaC..................................................................   2        1        seq
    .................Uccaucuguggguauugacugaa..................................................................   1        1        seq
```

Mature **Star**

```
gccaauggggcgaaucugccaucuguggguauugacugaacauguccaagucagaauccccacucaggugggaaccuauggcagcgccacagagccuccaugggccuuguugg
.................gccaucuguggguauugaAugaac.....................................   1        1        seq
.................gccaucuguggguauugacugaCc.....................................   3        1        seq
.................gccaucuguggguauugacugaac.....................................   53       0        seq
.................gccaucuguggguauugacugaacU....................................   1        1        seq
.................gccaucuguggguauugacugaacG....................................   20       1        seq
.................Accaucuguggguauugacugaaca....................................   10       1        seq
.................Gcaucuguggguauuaga...........................................   1        1        seq
.................ccaucuguggguauuaga...........................................   13       0        seq
.................Gcaucuguggguauugac...........................................   1        1        seq
.................ccaucuguggguauugac...........................................   4        0        seq
.................cGaucuguggguauugac...........................................   1        1        seq
.................ccaucuguggguauugacu..........................................   40       0        seq
.................Acaucuguggguauugacu..........................................   1        1        seq
.................Ucaucuguggguauugacu..........................................   2        1        seq
.................ccaucuguggguauugaGu..........................................   1        1        seq
.................ccaucuguggguauugaUug.........................................   1        1        seq
.................ccaucuguggguauugaNug.........................................   1        1        seq
.................ccaucuguggguauugacug.........................................   24       0        seq
.................ccaucuguAggauuaugacuga.......................................   1        1        seq
.................Gcaucuguggguauugacuga........................................   3        1        seq
.................ccaucuguggguauuaCacuga.......................................   2        1        seq
.................ccaucuguggguauugacAga........................................   2        1        seq
.................ccaucuguggCuuaugacuga........................................   2        1        seq
.................ccaucuguggguauugacuga........................................   451      0        seq
.................ccGucuguggguauugacuga........................................   1        1        seq
.................Ncaucuguggguauugacuga........................................   1        1        seq
.................ccaucuguggguauugacugU........................................   1        1        seq
.................ccaucuguggguauugaGuga........................................   1        1        seq
.................ccaucuguggGauugacuga.........................................   1        1        seq
.................ccaucuguggguauugaAuga........................................   6        1        seq
.................cUaucuguggguauugacuga........................................   1        1        seq
.................ccaucuguggguauuaUacuga.......................................   1        1        seq
.................ccauGuguggguauugacuga........................................   1        1        seq
.................ccaucuguggguauugUcuga........................................   1        1        seq
.................ccaucuguggguauugaNuga........................................   3        1        seq
.................Acaucuguggguauugacuga........................................   3        1        seq
.................ccaucuguggguauugacugaa.......................................   38       0        seq
.................Gcaucuguggguauugacugaac......................................   1        1        seq
.................ccaucuguggguauugacugaaG......................................   2        1        seq
.................ccaucuguggguauugacugaaA......................................   2        1        seq
.................ccaucuguggguauugacugaac......................................   15       0        seq
.................ccaucuguggguauugacugaacU.....................................   5        1        seq
.................ccaucuguggguauugacugaaca.....................................   1        0        seq
.................ccaGcuguggguauugacugaaca.....................................   1        1        seq
.................ccaucuguggguauugacugaacGu....................................   5        1        seq
.................caucuguggguauugac............................................   78       0        seq
.................cauNuguggguauugac............................................   1        1        seq
.................caucuguggguauugaG............................................   1        1        seq
.................caucuguggguauugacu...........................................   32       0        seq
.................cUucuguggguauugacu...........................................   1        1        seq
.................caucuguggguauugacug..........................................   12       0        seq
.................caucuguggguauugacuga.........................................   228      0        seq
.................Uaucuguggguauugacuga.........................................   8        1        seq
.................Naucuguggguauugacuga.........................................   1        1        seq
.................caucuguggguauugacGga.........................................   1        1        seq
.................caucuguggguauugUcuga.........................................   1        1        seq
.................caucuguggguauugacNga.........................................   1        1        seq
.................caucuguggguauugaGuga.........................................   1        1        seq
.................caucuguggguauugacAga.........................................   3        1        seq
.................caucuguAggauuaugacuga........................................   1        1        seq
.................caucuguggguauugacugaa........................................   11       0        seq
.................caucuguggguauugacNgaac.......................................   1        1        seq
.................caucuguggguauugacugaaA......................................   1        1        seq
.................caucuguggguauugacugaac......................................   50       0        seq
.................caucuguggguauugacugaacU.....................................   1        1        seq
.................caucuguggguauugacugaacGu....................................   1        1        seq
.................caucuguggguauugacugaacaC....................................   1        1        seq
...................aucuguggguauugacA.........................................   2        1        seq
...................Cucuguggguauugacu.........................................   6        1        seq
...................aucuguAggauuaugacu........................................   1        1        seq
```

Mature Star

```
gccaauggggcgaaucugccaucuguggguauugacugaacauguccaagucagaaucccacucaggugggaaccuauggcagcgccacagagccuccaugggccuuguugg
.....................aucugugCgauuaugacu..... 1   1   seq
.....................aucugugggauuaugacu..... 167 0   seq
.....................auGugugggauuaugacu..... 1   1   seq
.....................aAcugugggauuaugacu..... 1   1   seq
.....................Gucugugggauuaugacu..... 2   1   seq
.....................aucugCgggauuaugacug..... 1   1   seq
.....................Cucugugggauuaugacug..... 1   1   seq
.....................aucugugggauuaugacuU..... 1   1   seq
.....................aucugugAgauuaugacug..... 1   1   seq
.....................aucugugggauuaugacug..... 79  0   seq
.....................aucugugggauuaugacugU..... 1   1   seq
.....................auGugugggauuaugacuga..... 1   1   seq
.....................Cucugugggauuaugacuga..... 6   1   seq
.....................aucugugggauuagAuga..... 1   1   seq
.....................aCcugugggauuaugacuga..... 1   1   seq
.....................aucugugggauuaugacuga..... 640 0   seq
.....................aucugugggauuaugacuCa..... 2   1   seq
.....................Gucugugggauuaugacuga..... 4   1   seq
.....................aucugCgggauuaugacuga..... 1   1   seq
.....................aucugugggauuaugacuNaa..... 2   1   seq
.....................aucugugggauuaugacugU..... 2   1   seq
.....................aucugugggauuaugacugaa..... 92  0   seq
.....................Cucugugggauuaugacugaa..... 2   1   seq
.....................Nucugugggauuaugacugaac..... 2   1   seq
.....................aucugugggauuaugUcugaac..... 1   1   seq
.....................aucugugggauuaugAUgaac..... 1   1   seq
.....................aucugugggauuaugacugaaG..... 1   1   seq
.....................aucugugggauuaugacuCaac..... 2   1   seq
.....................auGugugggauuaugacugaac..... 1   1   seq
.....................aucugugGauuaugacugaac..... 1   1   seq
.....................aucugugAgauuaugacugaac..... 1   1   seq
.....................aucuAugggauuaugacugaac..... 1   1   seq
.....................aGcugugggauuaugacugaac..... 2   1   seq
.....................aucugugggauuaugacugaaA..... 10  1   seq
.....................aucugugggauuaugacugGac..... 1   1   seq
.....................aucugugggauuaugacAgaac..... 1   1   seq
.....................aucugugggauuaugacugaac..... 795 0   seq
.....................aucugugggauuaugacugaaU..... 4   1   seq
.....................Gucugugggauuaugacugaac..... 5   1   seq
.....................aucugugGUuuaugacugaac..... 1   1   seq
.....................Cucugugggauuaugacugaac..... 23  1   seq
.....................aucugugggauuaugacGgaac..... 1   1   seq
.....................aucugugggauuaugacugaacU..... 41  1   seq
.....................aucugugggauuaugacugaaca..... 19  0   seq
.....................aucugugggauuaugacugaacGu..... 56  1   seq
.....................aucugugggauuaugacugaacUu..... 2   1   seq
.....................ucugugggauuaugacug..... 21  0   seq
.....................ucugugggauuaugacuga..... 33  0   seq
.....................ucugugggauuaugacugaa..... 8   0   seq
.....................ucugugggauuaugacugaaA..... 1   1   seq
.....................ucuguAggauuaugacugaac..... 1   1   seq
.....................ucugugggauuaugacugNac..... 2   1   seq
.....................ucugugggauuaugacugaac..... 91  0   seq
.....................ucugugggauuaugacugGac..... 1   1   seq
.....................ucugugggauuaugacugaacU..... 5   1   seq
.....................ucugugggauuaugacugaaca..... 1   0   seq
.....................ucugugggauuaugacugaacGu..... 4   1   seq
.....................cugugggCuuaugacuga..... 1   1   seq
.....................cGugugggauuaugacuga..... 1   1   seq
.....................cugugggauuaugacuga..... 40  0   seq
.....................cugugggauuaugacugaa..... 44  0   seq
.....................cugugggauuauUacugaac..... 1   1   seq
.....................cugugggauuaugacugaaU..... 1   1   seq
.....................cugugggauuaugacugaac..... 131 0   seq
.....................cGugugggauuaugacugaac..... 2   1   seq
.....................Guguugggauuaugacugaac..... 1   1   seq
.....................cugugggauuaugacugaacU..... 4   1   seq
.....................cugugggauuaugacugaaca..... 4   0   seq
.....................cugugggauuaugacugaacGu..... 5   1   seq
.....................uguugggauuaugacugaa..... 61  0   seq
```

Mature Star

```
gccaauggggcgaaucugccaucuguggguauugacugaacauguccaagucagaaucccacucaggugggaaccuauggcagcgccacagagccuccaugggccuuguugg
.....................uAugggauuaugacugaac..... 1   1   seq
.....................uguugggauuaugaUugaac..... 1   1   seq
.....................uguugggauuaugacugaac..... 136 0   seq
.....................uguugggauuaugacugaUc..... 1   1   seq
.....................uUuugggauuaugacugaac..... 1   1   seq
.....................uguugggauuaugacugaGc..... 1   1   seq
.....................uguugggauuaugacugaacU..... 7   1   seq
.....................uguugggauuaugacugaaca..... 1   0   seq
.....................uguugggauuaugacugaacaC..... 1   1   seq
.....................uguugggauuaugacugaacGu..... 1   1   seq
.....................uguugggauuaugacugaacauC..... 5   1   seq
.....................gugggauuaugacugaac..... 580 0   seq
.....................gugggauuGugacugaac..... 1   1   seq
.....................gugCgauuaugacugaac..... 2   1   seq
.....................gGgggauuaugacugaac..... 2   1   seq
.....................guggAauuaugacugaac..... 1   1   seq
.....................gugggauuaugaAugaac..... 1   1   seq
.....................gugAgauuaugacugaac..... 1   1   seq
.....................gugggUuuaugacugaac..... 1   1   seq
.....................gugggauuaugacugaaA..... 1   1   seq
.....................guCggauuaugacugaac..... 1   1   seq
.....................gugggauuaugacugCac..... 1   1   seq
.....................Augggauuaugacugaac..... 2   1   seq
.....................Uugggauuaugacugaac..... 2   1   seq
.....................gugggauCaugacugaac..... 1   1   seq
.....................guUggauuaugacugaac..... 1   1   seq
.....................gugggauGaugacugaac..... 1   1   seq
.....................gugggauuaugacugaaca..... 11  0   seq
.....................Uugggauuaugacugaaca..... 1   1   seq
.....................gugggauuaugUcugaaca..... 1   1   seq
.....................gugggauuaugacugaacU..... 6   1   seq
.....................gugggauuaugacugaacGu..... 3   1   seq
.....................gggauuaugacugaacGu..... 2   1   seq
.....................gggauuaugacugaacauC..... 8   1   seq
.....................ggauuaugacugaacauC..... 2   1   seq
```

novel-mir-candidate-95

Provisional ID	:	chr20_41955
Score total	:	47.2
Score for star read(s)	:	3.9
Score for read counts	:	45.5
Score for mfe	:	0.6
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	101
Mature read count	:	100
Loop read count	:	0
Star read count	:	1

Star Mature

```
5'- ccugggaccuccuuaaaaggacuuuaaggucuguugcucaccuggugcagggcacagcauuugugacaguucccuguucucuguguuugcagcuuuaaggauuuuuaugaa  -3'   obs
    ccugggaccuccuuaaaaggacuuuaaggucguugcucaccuggugcagggcacagcauuugugacaguucccuguucucuguguuugcagcuuuaaggauuuuuaugaa        exp
    ((((((....)))....)))).(((((((.((((....(((..((.((((((((((.....))))).....)))))).))..)))...))))))))))).........  reads   mm   sample
    ......................uuaaggucuguugcucaccuggugcagggcac.............................................  1       0    seq
    ................................uugcucaccuggugcagggcacU.............................................  1       1    seq
    ......................................................uucccuguucucuguguuug.......................  1       0    seq
    ......................................................uucccuguucucuguguuugca....................  12      0    seq
    .....................................................Cucccuguucucuguguuugca....................  1       1    seq
    ......................................................uucccuguucucuguguuugcaU...................  2       1    seq
    ......................................................uucccuguucucuguguuugcag...................  2       0    seq
    ......................................................uucccuguucucuguguuugcagU..................  3       1    seq
    ......................................................ucccuguucucuguguuu........................  1       0    seq
    ......................................................ucccuguucucuguguuugA......................  2       1    seq
    ......................................................ucccuguucucuguguuugc......................  2       0    seq
    ......................................................uUccuguucucuguguuugca.....................  1       1    seq
    ......................................................Ccccuguucucuguguuugca.....................  1       1    seq
    ......................................................ucccuguucucuguguuuNca.....................  1       1    seq
    ......................................................ucccuguucucuguguuugca.....................  36      0    seq
    ......................................................ucccuguucucugAguuugca.....................  1       1    seq
    ......................................................ucccuguucucuUuguuugca.....................  1       1    seq
    ......................................................ucccuguucucuguguuugcaA....................  2       1    seq
    ......................................................ucccuguucucuguguuugcag....................  7       0    seq
    ......................................................ucccuguucucuguguuugcaU....................  1       1    seq
    ......................................................ucccuguucucuguguuugcagU...................  16      1    seq
    ......................................................ucccuguucucuguguuugcagA...................  6       1    seq
    ......................................................ucccuguucucuguguuugcagUu..................  1       1    seq
```

novel-mir-candidate-30

Provisional ID	:	chr3_10480
Score total	:	151.2
Score for star read(s)	:	3.9
Score for read counts	:	148
Score for mfe	:	-1.6
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	302
Mature read count	:	275
Loop read count	:	0
Star read count	:	27

```
                                   Star                                   Mature
5'- gacaagugagucacaaacauucuguugaagggaaaucuagucaguugcuugaaagagcacagcccaaauaaaacaaggacugacuaggugguaaugaaauaaccugugauuu  -3'    obs
    gacaagugagucacaaacauucuguugaagggaaucuagucaguugcuugaaagagcacagcccaaauaaaacaaggacugacuaggugguaaugaaauaaccugugauuu         exp
    .......((((((((....((((.......))))((((((((((((.((((.......................))))))))))))))).............)))))))))   reads      mm         sample
    .acaUgugagucacaaacauucuguugaaggg.......................................................................   1          1          seq
    ...........cacaaacauucuguugaagggaa.....................................................................   3          0          seq
    ...........cacaaacauucuguugaagggaaau...................................................................   1          0          seq
    ...............aacauucuguugaagggaaaucu.................................................................   1          0          seq
    .......................guugaagggaaaucuagucaguugcu......................................................   1          0          seq
    ................................aaaucuagucaguugcuug....................................................   1          0          seq
    ................................aaaucuagucaguugcuuga...................................................   4          0          seq
    ................................aaaucuagucaguugcuugaa..................................................   1          0          seq
    ................................aaaucuagucaguugcuugaaag................................................   6          0          seq
    ................................aaaucuagucaguugcuugaaaga...............................................   1          0          seq
    ................................aaucuagucaguugcuuga....................................................   8          0          seq
    ................................aaucuagucaguugcuugaaa..................................................   2          0          seq
    ................................aaucuagucaguugcuugaaag.................................................   3          0          seq
    ................................aaucuagucaguugcuugaaaga................................................   1          0          seq
    ...............................................................gcccaaauaaaacaaggacugacuaggu.............   1          0          seq
    ..............................................................cccaaauaaaacaaggacugacu....................   1          0          seq
    ..............................................................cccaaauaaaacaaggacugacuaggugua.............   1          0          seq
    ...............................................................aaauaaaacaaggacugaG......................   1          1          seq
    ..................................................................auaaaacaaggacugacuaggguaaugaaauaacc.......   1          0          seq
    ..................................................................auaaaacaaggacugacuaggguaaugaaauaaccuA.....   1          1          seq
    ...............................................................aaaacaaggacugacuagg.......................   2          0          seq
    ...............................................................aaaacaaggacugacuaggu......................   2          0          seq
    ...............................................................aaaacaaggacugacuaggug.....................   2          0          seq
    ...............................................................aaaacaaggacugacuaggugA....................   1          1          seq
    ...............................................................aaaacaaggacuUacuaggugu....................   1          1          seq
    ...............................................................aaaacaaggacugacuaggugu....................   22         0          seq
    ...............................................................aaaacaaggacugacuaggugua...................   1          0          seq
    ...............................................................aaaacaaggacugacuagguguaau.................   1          0          seq
    ...............................................................aaaacaaggacugacuaggguaaugaaauaacc.........   1          0          seq
    ...............................................................aaacaaggacugacuagg........................   6          0          seq
    ...............................................................Caacaaggacugacuagg........................   1          1          seq
    ...............................................................aaacaaggacugacuaggu.......................   3          0          seq
    ...............................................................aaacaaggacugacuaggug......................   5          0          seq
```

```
                                   Star                                   Mature
gacaagugagucacaaacauucuguugaagggaaaucuagucaguugcuugaaagagcacagcccaaauaaaacaaggacugacuaggugguaaugaaauaaccugugauuu
.......................................................................aaacaaggacugacuaggNgu.....................   1          1          seq
.......................................................................aUacaaggacugacuaggugu.....................   1          1          seq
.......................................................................aaacaaggacugacuaggugA.....................   1          1          seq
.......................................................................aaacaaggacugacuaggugu.....................   154        0          seq
.......................................................................aaacaaggacugacuaggAgu.....................   1          1          seq
.......................................................................Gaacaaggacugacuaggugu.....................   1          1          seq
.......................................................................Caacaaggacugacuaggugu.....................   2          1          seq
.......................................................................aaGcaaggacugacuaggugua....................   1          1          seq
.......................................................................aaacaaggacugacuaggugua....................   7          0          seq
.......................................................................Gaacaaggacugacuaggugua....................   1          1          seq
.......................................................................aaacaaggacugacuaggguguU...................   10         1          seq
.......................................................................aaacaaggacugacuaggguguG...................   1          1          seq
.......................................................................aaacaaggacugacuaggguguaa..................   5          0          seq
.......................................................................Gaacaaggacugacuaggguguaa..................   1          1          seq
.......................................................................aaacaaggacugacuaggguguaU..................   1          1          seq
.......................................................................aUacaaggacugacuaggguguaau.................   1          1          seq
.......................................................................aaacaaggacugacuaggguguaau.................   10         0          seq
.......................................................................aaacaaggacugacuaggguguaUu.................   1          1          seq
.......................................................................aaacaaggacugacuaggguguaCug................   1          1          seq
.......................................................................aaacaaggacugacuaggguguaaugU...............   1          1          seq
.......................................................................aUacaaggacugacuaggguguaauga...............   1          1          seq
.......................................................................aacaaggacugacuaggugA......................   1          1          seq
.......................................................................aacaaggacugacuaggugu......................   11         0          seq
.......................................................................aacaaggacugacuaggguguaau..................   3          0          seq
.......................................................................aacaaggacugacuaggguguaaug.................   1          0          seq
.......................................................................acaaggacugacuaggugu......................   1          0          seq
.......................................................................acaaggacugacuaggguguaa...................   2          0          seq
.......................................................................acaaggacugacuaggguguaau..................   4          0          seq
.......................................................................acaaggacugacuaggguguaaug.................   2          0          seq
```

novel-mir-candidate-299

Provisional ID	:	chr10_24046
Score total	:	1.9
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	27
Mature read count	:	27
Loop read count	:	0
Star read count	:	0

Mature Star

```
5'- cagugcccugcccauucuucuugcacuggccugcccucaggagacaggugugaggucccugagcuuggccaguguaagaguaggggacagguuucucuccuuguaggugu  -3'   exp
    .((...(((((((....(((((((((((((((...(((((((..((........)).)))))))..))))))))))))))))....)))))))...))(.(((...))).).
    ..........uccauucuucuugcCcug.....................................................................................
    ....................uugcacuggccuguAccuc.............................................................................
    ....................uugcacuggccugucccucag...........................................................................
    ....................uugcacuggccugucccucagg..........................................................................
    ....................uugcacuggccugucccucaggC.........................................................................
    ....................uugcacuggccugucccucagga.........................................................................
    ....................uugcacuggccugucccucagAa.........................................................................
    ....................uugcacuggccugucccucaggU.........................................................................
    ....................uugcacuggccugucccucaggaU........................................................................
    ....................uugcacuggccugucccucaggaA........................................................................
    .....................ugcacuggccugucccucagga.........................................................................
```

reads	mm	sample
1	1	seq
1	1	seq
1	0	seq
2	0	seq
1	1	seq
13	0	seq
1	1	seq
1	1	seq
1	1	seq
3	1	seq
3	0	seq

novel-mir-candidate-320

Provisional ID	:	chr5_14952
Score total	:	1.8
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	609
Mature read count	:	609
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- ccccuggcuuguggaguucugggauacugagggggaggggacagggcaugggagugcggugcucucaccuuugacuugaacucauuccccagggggacaggggaggccuccuca  -3'    exp
    (((((((...(((.(((((.((.....((((.(((((.((...((((....)))).)).)))))).))))...)).)))))))...)))))))...(((((....))))).   reads     mm        sample
    ........................acugaggggaggggacUg.......................................................................   1         1         seq
    ...........................................................uuugacuugaacucauucccc.......................   2         0         seq
    ...........................................................uuugacuugaacucauucccca......................   4         0         seq
    ...........................................................uuugacuugaacucauuccccaU.....................   5         1         seq
    ...........................................................uuugacuugaacucauuccccaA.....................   4         1         seq
    ...........................................................uuugacuGgaacucauuccccag.....................   1         1         seq
    ...........................................................uuugacuugaacucauuccccag.....................   53        0         seq
    ...........................................................uuugacuugaacucauuccccagC....................   16        1         seq
    ...........................................................uuugacuugaacucauuccccagg....................   1         0         seq
    ...........................................................uuugacuugaacucauuccccagU....................   277       1         seq
    ...........................................................uuugacuugaacucauuccccagA....................   117       1         seq
    ............................................................uugacuugaacucauucccca......................   1         0         seq
    ............................................................uugacuugaacucauucGccag.....................   1         1         seq
    ............................................................uugacuugaacucauuccAcag.....................   1         1         seq
    ............................................................uugacuugaacucauuccccag.....................   17        0         seq
    ............................................................uugacuugaacucauuccccagU....................   66        1         seq
    ............................................................uugacuugaacucauuccccagA....................   40        1         seq
    ............................................................uugacuugaacucauuccccagg....................   1         0         seq
    .............................................................ugacuugaacucauuccccag.....................   1         0         seq
    .............................................................ugacuugaacucauuccccagA....................   1         1         seq
    ...................................................................................caggggacaggggaggGcu.....   1         1         seq
```

novel-mir-candidate-442

Provisional ID	:	chr10_24028
Score total	:	1.1
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.4
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	23
Mature read count	:	23
Loop read count	:	0
Star read count	:	0

Mature Star

```
5'- cagugaggagacuacacccuggcacacagcaaggacuagggacaugucaguccuuuuccucaagggugcuaggacccaccuuucuccccacacaccucaguuuccac -3'    exp
    ..(((.(((((.......(((((((.(....((((..((((((.....)))))).))))....)))))))))).........)))))..))).................   reads     mm        sample
    ....................uggcacacagcaaggacu.......................................................................   21        0         seq
    ....................uggcacacGgcaaggacu.......................................................................   1         1         seq
    ....................uggcacacagcaaAgacu.......................................................................   1         1         seq
```

novel-mir-candidate-217

Provisional ID	:	chr1_4205
Score total	:	4
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	0.7
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	580
Mature read count	:	580
Loop read count	:	0
Star read count	:	0

Mature Star

```
5'- auaaaggcaauuaugggcugcucaaacugcugacagcaugcagucagcugcagggccguuggugguaacugaugcuaccugugccacaaaacccccucccuccuaaug  -3'    exp
    .....((((....((((..(((((.(((((((((.((.(((((....)))))..)).)))))))))...))).)).)))))))).......................   reads      mm         sample
    ..................uAcucaaacugcugacagca.......................................................................   1          1          seq
    ....................cucaaacGgcugacagca.......................................................................   2          1          seq
    ....................cucaaacugcugacagcU.......................................................................   1          1          seq
    ....................cucaaaAugcugacagca.......................................................................   1          1          seq
    ....................cucaaacugcugacagcG.......................................................................   6          1          seq
    ....................cCcaaacugcugacagca.......................................................................   1          1          seq
    ....................cucaaacugcugacagAa.......................................................................   51         1          seq
    ....................cucaaacugcugacagGa.......................................................................   1          1          seq
    ....................cuGaaacugcugacagca.......................................................................   1          1          seq
    ....................cucaGacugcugacagca.......................................................................   1          1          seq
    ....................cucaaacugcugacagca.......................................................................   511        0          seq
    ....................cucaaacugcugacagcaG......................................................................   1          1          seq
    ....................cucaaacugcugacagcaA......................................................................   2          1          seq
```

novel-mir-candidate-19

Provisional ID	:	chr7_18169
Score total	:	219.5
Score for star read(s)	:	3.9
Score for read counts	:	212.2
Score for mfe	:	2.4
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	428
Mature read count	:	381
Loop read count	:	0
Star read count	:	47

```
                    Star                                Mature
5'- aaucuccguuuugugguuucuccucaggcuaccucucuggguucuguuucuuucccuguaaaauacuuuagcaacagaacccagagagucagccugaguggaaagcacugaaaug  -3'    obs
    aaucuccguuuugugguuucuccucaggcuaccucucuggguucuguuucuccuguaaaauacuuuagcaacagaacccagagagucagccugaguggaaagcacugaaaug         exp
    ......((((((((((.(((((.(((((((((..((((((((((((((((((.((.....(((...)))...)).)))))))))))))))))..)))))))).)))))).))).))))))   reads     mm        sample
    ......................cucaggcuaccucucuggguuU.......................................................................   1         1         seq
    ......................ucaggcuaccucucuggguucu.......................................................................   1         0         seq
    ......................ucaggcuGccucucuggguucu.......................................................................   1         1         seq
    ........................gcuaccucucuggguucugu.......................................................................   1         0         seq
    ........................gcuGccucucuggguucugu.......................................................................   1         1         seq
    ........................gcuGccucucuggguucuguu......................................................................   2         1         seq
    ........................gcuaccucucuggguucuguu......................................................................   26        0         seq
    ........................gcuaccucucuggguucuguuA.....................................................................   1         1         seq
    ........................gcuaccucucuggguucuguuu.....................................................................   2         0         seq
    ........................gcuaccucucuggguucuguuucu...................................................................   2         0         seq
    .........................cuaccucucuggguucuguuu......................................................................   1         0         seq
    .........................uaccucucuggguucuguu........................................................................   1         0         seq
    .........................uaccucucuggguucuguuucu.....................................................................   6         0         seq
    .........................uaccucucuggguucuguNucu.....................................................................   1         1         seq
    ........................accucucuggguucuguuucu......................................................................   2         0         seq
    ........................ccucucuggguucuguuucu.......................................................................   1         0         seq
    ...........................................................uagcaacagaacccagagaguca...............................   1         0         seq
    ............................................................agcaacagaacccagagagu.................................   1         0         seq
    ...........................................................caacagaacccagagagu....................................   2         0         seq
    ...........................................................caacagaacccagagagaA...................................   1         1         seq
    ...........................................................caacagaacccagagaguc...................................   1         0         seq
    ...........................................................caacagaacccagagaguca..................................   10        0         seq
    ...........................................................caacagaacccagagagucag.................................   7         0         seq
    ...........................................................caacagaacccagagagucaA................................   1         1         seq
    ...........................................................caacagaacccagagagucagU...............................   3         1         seq
    ...........................................................caacGgaacccagagagucagc...............................   1         1         seq
    ...........................................................caacagaacccagagagucagA................................   10        1         seq
    ...........................................................caacagaacccagagagucagc................................   15        0         seq
    ...........................................................caacagaacccagagagucagcc...............................   30        0         seq
    ...........................................................caacagaGcccagagagucagcc...............................   1         1         seq
    ...........................................................caacagaacccagagagucagcA...............................   2         1         seq
    ...........................................................caacagaGcccagagagucagccu..............................   2         1         seq
    ...........................................................caacGgaacccagagagucagccu..............................   2         1         seq
```

```
                    Star                                Mature
aaucuccguuuugugguuucuccucaggcuaccucucuggguucuguuucuuucccuguaaaauacuuuagcaacagaacccagagagucagccugaguggaaagcacugaaaug
.......................................................caacagaacccagagagucagccu.....................   143       0         seq
.......................................................caacagaacccaAagagucagccu.....................   1         1         seq
.......................................................caacagaacccagagagucagccC.....................   1         1         seq
.......................................................caacagaacccagagaguNagccu.....................   1         1         seq
.......................................................caacagaacccagagagucagccA.....................   7         1         seq
.......................................................caacagaacccagagagucagccG.....................   1         1         seq
.......................................................caacagaacccGgagagucagccu.....................   1         1         seq
.......................................................caacagaacccagagagucagccuA....................   2         1         seq
.......................................................caacagaacccagagagucagccuU....................   5         1         seq
.......................................................caacagaacccagagagucagccug....................   1         0         seq
.......................................................caacagaacccagagagucagccAga...................   1         1         seq
.......................................................aacagaacccagagagucagccA......................   1         1         seq
.......................................................aacagaacccagagagucagccu......................   2         0         seq
.......................................................aacagaacccagagagucagccuU.....................   1         1         seq
.......................................................acagaacccagagagucagcc........................   3         0         seq
.......................................................acGgaacccagagagucagccu.......................   2         1         seq
.......................................................acagaacccagagagucagccu.......................   44        0         seq
.......................................................acagaacccagagagucagccA.......................   1         1         seq
.......................................................acagaacccagaUagucagccu.......................   2         1         seq
.......................................................acagaacccagagagucagccG.......................   1         1         seq
.......................................................acagaGcccagagagucagccu.......................   2         1         seq
.......................................................acagaGcccagagagucagccug......................   1         1         seq
.......................................................acagaacccagagagucagccuA.....................   2         1         seq
.......................................................acagaacccagagagucagccuU.....................   3         1         seq
.......................................................acagaacccagagagucagccug......................   1         0         seq
.......................................................acagaacccagagagucagccuga.....................   1         0         seq
.......................................................cagaacccagagagucagc..........................   1         0         seq
.......................................................cagaacccagagaAucagcc.........................   1         1         seq
.......................................................cagaGcccagagagucagcc.........................   1         1         seq
.......................................................cagaGcccagagagucagccu........................   2         1         seq
.......................................................cagaacccagagagucagccA........................   1         1         seq
.......................................................cagGacccagagagucagccu........................   1         1         seq
.......................................................cagaacccagagagucagccu........................   28        0         seq
.......................................................cagaaAccagagagucagccu........................   1         1         seq
.......................................................cagaacccagagagucagccuU.......................   1         1         seq
.......................................................cagaacccagagagucagccug.......................   1         0         seq
.......................................................cagaacccagagagucagccuA.......................   4         1         seq
.......................................................cagaGcccagagagucagccug.......................   1         1         seq
.......................................................cagaacccagagagucagccugU......................   4         1         seq
.......................................................cagaacccagagagucagccuga......................   2         0         seq
.......................................................cagaacccagagagucagccuAa......................   4         1         seq
.......................................................cagaacccagagagucagccuUa......................   1         1         seq
.......................................................agaacccagagagucagccuga.......................   1         0         seq
.......................................................agaacccagagagucagccugU......................   4         1         seq
.........................................................gaacccagagagucagccu........................   1         0         seq
.........................................................gaacccagagagucagccugU......................   1         1         seq
```

novel-mir-candidate-115

Provisional ID	:	chr8_21612
Score total	:	40.6
Score for star read(s)	:	3.9
Score for read counts	:	30.7
Score for mfe	:	1.4
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	72
Mature read count	:	68
Loop read count	:	0
Star read count	:	4

Star **Mature**

```
5'- ccuugguuggugcggccauacuccuaccccagaguccugcuuugaaugcacuaaaaaguauaaauauuagcauggcacuggaguagagcaugggggcaucucaggaauaug  -3'   obs
    ccuugguuggugcggccauacuccuaccccagaguccugcuugaaugcacuaaaaaguauaaauauuagcauggcacuggaguagagcaugggggcaucucaggaauaug        exp
    .(((((..(((((..((((.(((.(((.(((.((((.(((.((((....((((........))))........)))).)))).)))))).)))))).))))..)))))))))).....   reads   mm   sample
    ....................cuccuaccccagaguccugc.......................................................................   1       0    seq
    ....................cuccuaccccagaguccugcu......................................................................   1       0    seq
    ....................cuccuaccccagaguccuNcuuu....................................................................   1       1    seq
    ....................cuccuaccccagaguccugcuuuga..................................................................   1       0    seq
    ..........................................................auuagcauggcacuggaguaga...........................   1       0    seq
    ..........................................................uuagcauggcacuggaguagagA..........................   1       1    seq
    ..........................................................uagcauggcacuggaguagagc...........................   1       0    seq
    ..........................................................uagcauggcacuggaguagagca..........................   1       0    seq
    ..........................................................agcauggcacuggaguagagcU...........................   2       1    seq
    ..........................................................agcauggcacuggaguagagcaA..........................   1       1    seq
    ..........................................................cauggcacuggaguagagca.............................   2       0    seq
    ..........................................................cauggcacuggaguagagcUu............................   2       1    seq
    ..........................................................caCggcacuggaguagagcau............................   1       1    seq
    ..........................................................cauggcacuggaAuagagcau............................   1       1    seq
    ..........................................................cauggcacuggaguagagcau............................   47      0    seq
    ..........................................................Nauggcacuggaguagagcau............................   1       1    seq
    ..........................................................cauggcacuggaguagagcaA............................   6       1    seq
    ..........................................................cauggcacuggaguagagcauU...........................   1       1    seq
    ..........................................................cauggcacuggaguagagcauA...........................   3       1    seq
    ..........................................................auggcacuggaguagagcauU............................   1       1    seq
```

novel-mir-candidate-306

Provisional ID	:	chr10_24239
Score total	:	1.9
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	26
Mature read count	:	26
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- aacuggcucaaaguggguacaagauaccugcacaggguggguggugagcagaggaugggccaggccaucuucugagaccacugcccccaggccaaggaugggucacaucc  -3'   exp
   ...(((((....(((((((.....)))))).)))..((.((((((((..((((((((((.....)))))))))).....)))))))))).)))))).(((((.....)))))   reads   mm   sample
   ..........................................................................cuucugagaccacugcccccA.....................   1       0    seq
   ..........................................................................cuucugagaccacugcccccagA...................   2       1    seq
   ..........................................................................cuucugagaccacugcccccagU...................   2       1    seq
   ..........................................................................uucugagaccacugcccccU......................   1       1    seq
   ..........................................................................uucugagaccacugcccccA......................   1       0    seq
   ..........................................................................uucugagaccacugcccccagU....................   3       1    seq
   ..........................................................................uucugagaccacugcccccagA....................   9       1    seq
   ..........................................................................uucugagaccacugcccccaggU...................   1       1    seq
   ..........................................................................uucugagaccacugcccccaggA...................   5       1    seq
   ..........................................................................uucugagaccacugcccccagUc...................   1       1    seq
```

novel-mir-candidate-94

Provisional ID	:	chrX_45761
Score total	:	48.8
Score for star read(s)	:	3.9
Score for read counts	:	39.9
Score for mfe	:	0.4
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	90
Mature read count	:	89
Loop read count	:	0
Star read count	:	1

Mature **Star**

```
5'- gaugguaaaaugcucaguucuucccuuguuuuagucaaagcaaaguucuuuguuuucuuugacuaaaacaaaggaauaacuaaacacuuuauugcuaccucuuuuguuguu  -3'   obs
    gaugguaaaaugcucaguucuucccuuguuuuagucaaagcaaaguucuuuguuuucuuugacuaaaacaaaggaauaacuaaacacuuuauugcuaccucuuuuguuguu        exp
    ...((((((.((...((((.((((.((((((((((((((((.(((........)))).)))))))))))))))).)))).))))...)).)))))).................  reads   mm   sample
    ..................uUuucccuuguuuuagucaaag.......................................................................  1       1    seq
    ..................Acuucccuuguuuuagucaaag.......................................................................  1       1    seq
    ..................ucuucccuuguuuuagucaaag.......................................................................  16      0    seq
    ..................ucuucccuuguuuuagucaaagc......................................................................  13      0    seq
    ..................cuucccuugCuuuagucaaag........................................................................  1       1    seq
    ..................cuucccuuguuuuagucaaag........................................................................  8       0    seq
    ..................cuucccuuguuuuagucaaagc.......................................................................  8       0    seq
    ...................uAcccuuguuuuagucaaag........................................................................  1       1    seq
    ...................uucccuuguuuuagucaaag........................................................................  9       0    seq
    ...................uucccuuguuuuagucaaagc.......................................................................  26      0    seq
    ...................uucccuuguuuuagucaaagca......................................................................  5       0    seq
    ..........................................................uugacuaaaacaaaggaauaac..............................  1       0    seq
```

novel-mir-candidate-400

Provisional ID	:	chr15_33644
Score total	:	1.4
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.7
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	73
Mature read count	:	73
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- ucaucagcguuucuccaaacugauuccaccacauccccgcugucauccucagguggauuccuucccuccaggugcacgugaggauggcucugagaugugucagcgauggaacu  -3'    exp
    .............((((..((((......((((((.((..((((((((((.(((....(((.......)))..)))).)))))))))..)).)))))))))...))))...   reads     mm        sample
    ...................acugauuccaccacauccc.......................................................................   1         0         seq
    ......................................................................gugcacgugaggauggcucuga....................   50        0         seq
    ......................................................................gugcacgugaggauggcucuAa....................   1         1         seq
    ......................................................................gugcacgugaggauggcucugU....................   1         1         seq
    ......................................................................gugcacgugaggauggcucugaU...................   4         1         seq
    ......................................................................gugcacgugaggauggcucugag...................   1         0         seq
    ......................................................................gugcacgugaggauggcucugaA...................   9         1         seq
    ......................................................................gugcacgugaggauggcucugaAa..................   4         1         seq
    ......................................................................gugcacgugaggauggcucugaAau.................   1         1         seq
    ......................................................................ugcacgugaggauggcucugaAa...................   1         1         seq
    ........................................................................cgugaggauggcucugagaug...................   1         0         seq
```

novel-mir-candidate-388

Provisional ID	:	chr1_2658
Score total	:	1.5
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.8
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	103
Mature read count	:	103
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- acugcuuuccugcuggcaccgagggguaauggcauuggggguuauggaaccagaaaauggggaucaugccaucuggguuguuccuuggcuuccaggugcaagcuggcccaggccaa  -3'   exp
...((......))((((.(...(((.((...((((((((((((.((((((((...(((.......)))))))).....)))).))))))))).))))....)).))).)))))).
```

	reads	mm	sample
.....cauuggggguuauggaaccagaaaauggga.....	1	0	seq
.....uuggggguuauggaaccagaa.....	1	0	seq
.....uuggggguuauggaaccagaaaa.....	1	0	seq
.....uuggggguuauggaaccagaaaauggU.....	1	1	seq
.....caucuggguuguuccuuggcu.....	1	0	seq
.....caucuggguuguuccuuggcuuccag.....	1	0	seq
.....aucuggguuguuccuuggcu.....	4	0	seq
.....aucuggguuguuUcuuggcu.....	1	1	seq
.....aucuggguuguuccAuggcu.....	1	1	seq
.....aucuggguuguuccuuggcuu.....	4	0	seq
.....aucuggguuguuccuuggcuuU.....	1	1	seq
.....aucuggguuguuccuuggcuuc.....	7	0	seq
.....aucuggguuguuccuuggcuucc.....	18	0	seq
.....aucuggguuguuccuuggcuucca.....	10	0	seq
.....aucuggguuguuccuuggcuuccU.....	3	1	seq
.....aucuggguuguuccuuggcuuccG.....	1	1	seq
.....aucuggguuguuccuuggcuuccCg.....	1	1	seq
.....aucuggguuguuccuuggcuuccag.....	1	0	seq
.....aucuggguuguuccuuggcuuccagA.....	8	1	seq
.....aucuggguuguuccuuggcuuccagU.....	14	1	seq
.....aucuggguuguuccuuggcuuccagUu.....	1	1	seq
.....ucuggguuguuccuuggcu.....	4	0	seq
.....ucuggguuguuccuuggcuu.....	1	0	seq
.....ucuggguuguuccuuggcuuc.....	2	0	seq
.....ucuggguuguuccuuggcuucc.....	5	0	seq
.....ucuggguuguuccuuggcuucca.....	7	0	seq
.....ucuggguuguuccuuggcNucca.....	1	1	seq
.....ucuggguuguuccuuggcuuccaU.....	1	1	seq
.....ucuggguuguuccuuggcuuccag.....	1	0	seq
.....ucuggguuguuccuuggcuuccagA.....	3	1	seq
.....ucuggguuguuccuuggcuuccagU.....	1	1	seq

novel-mir-candidate-142

Provisional ID	:	chr11_27370
Score total	:	29.2
Score for star read(s)	:	3.9
Score for read counts	:	26.6
Score for mfe	:	1.5
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	64
Mature read count	:	63
Loop read count	:	0
Star read count	:	1

Star Mature

```
5'- auggagguaagaugucggcugccccaaaggugagggcagggugcugggaaagaaugauuggguauccacauuauucccugccuggcccccagcaccuucuggaacguuccugg  -3'   obs
    auggagguaagaugucggcugccccaaaggugagggcagggugcugggaaagaaugauuggguauccacauuauucccugccuggcccccagcaccuucuggaacguuccugg        exp
    .(((.((((..........)))))))(((((.((((.((((...(((((..(((((..((...)))))))..)))))..))))..))))....)))))).(((....))).....  reads   mm   sample
    ............................gugagggcagggugcugggaaagaaugu.............................................  1       0    seq
    ...............................................................uuauucccugccuggcccc........................  1       0    seq
    ...............................................................uuauucccugccuggccccc.......................  1       0    seq
    ...............................................................uuauucccugccuggccccca......................  2       0    seq
    ...............................................................uuauucccugccuggccccaU.....................  1       1    seq
    ...............................................................uuauucccugccuggccccccag....................  10      0    seq
    ...............................................................uuauucccugccuggccccccagU...................  41      1    seq
    ...............................................................uuauucccugccuggccccccagA...................  6       1    seq
    ...............................................................uuauucccugccuggccccccagUa..................  1       1    seq
```

novel-mir-candidate-168

Provisional ID	:	chr3_8412
Score total	:	19.7
Score for star read(s)	:	3.9
Score for read counts	:	9.8
Score for mfe	:	1.4
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	31
Mature read count	:	30
Loop read count	:	0
Star read count	:	1

Mature **Star**

```
5'- cggcuggaaauaagcccgaacugcagcuuucagaccugcuucugccuuuacucccuccucuacuaauagaaggaguuuuugaaagccacugcugagggcuucaguuuug  -3'   obs
    cggcuggaaauaagcccgaacugcagcuuucagaccugcuucugccuuuacucccuccucuacuaauagaaggaguuuuugaaagccacugcugagggcuucaguuuug        exp
    .((((.......)))).((((((.(((((((((....((((........((((((..((((....)))))))))).....))))).....)))))))).)))))).. reads    mm      sample
    ....................cugcagcuuucagaccug.......................................................................  30       0       seq
    ...........................................................................................cugcugagAgcuucaguu...  1        1       seq
```

novel-mir-candidate-300

Provisional ID	:	chr16_34731
Score total	:	1.9
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	42
Mature read count	:	41
Loop read count	:	0
Star read count	:	1

Star **Mature**

```
5'- agaggagaugaacuggguaggagucagugguugggcccugugaggucaggcagcuugcggggacccuguacugcuagaccucacagggccagagcccacaagacagacagcuu  -3'   obs
    agaggagaugaacuggguaggagucaguguugggcccugugaggucaggcagcuugcggggacccuguacugcuagaccucacagggccagagcccacaagacagacagcuu        exp
    ...................((..(((.(((.(((((((((((((((((.(((((..((((((...)))))))))))).))))))))))))))).........)))).)).)))..)).   reads     mm        sample
    ..............................uugggcccugugaggucaggc.......................................................   1         0         seq
    ........................................ugaggucaggcagcuugcggggac.............................................   1         0         seq
    ..............................................cagcuugGggggacccug.............................................   1         1         seq
    ...........................................................ugcuagaccucacagggccU......................   1         1         seq
    ...........................................................ugcuagaccucacagggccag.....................   4         0         seq
    ...........................................................ugcuagaccucacagAgccag.....................   1         1         seq
    ...........................................................ugcuagaccucacaggNccaga....................   1         1         seq
    ...........................................................uUcuagaccucacagggccaga....................   1         1         seq
    ...........................................................ugcuagaccucacagggccagU....................   1         1         seq
    ...........................................................ugcuagaccucacagggccaga....................   28        0         seq
    ...........................................................ugcuagaccucacagggccagaA...................   3         1         seq
    ...........................................................ugcuagaccucacagggccagagAc.................   1         1         seq
```

novel-mir-candidate-335

Provisional ID	:	chr1_4660
Score total	:	1.8
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	137
Mature read count	:	136
Loop read count	:	0
Star read count	:	1

Star Mature

```
5'- gaaucauguuacuucuucaaacagauaagagaggcucuaccaacagaugcacugugcuaccuguguuuccagaaucuguugguaaagccucucuuaucugggaccuagaaag  -3'   obs
    gaaucauguuacuucuucaaacagauaagagaggcucuaccaacagaugcacugugcuaccuguguuuccagaaucuguugguaaagccucucuuaucugggaccuagaaag        exp
    ............((((.....(((((((((((((((.(((((((((((...(((.(..((....)).))))).))))))))))))).(((((((((((((((.......))))).. reads     mm      sample
    ........................................aacagaugcaAugugcua........................................................ 1       1       seq
    ......................................................................agaaucuguugguaaagc........................ 1       0       seq
    ......................................................................agaaucuguugguaaagccu...................... 3       0       seq
    ......................................................................agaaucuguugguaaagAcuc..................... 1       1       seq
    ......................................................................agaaucuguugguaaagcGuc..................... 2       1       seq
    ......................................................................agaaucuguugguaaagccuc..................... 39      0       seq
    ......................................................................agaaucuguugguaaagcGucu.................... 1       1       seq
    ......................................................................aAaaucuguugguaaagccucu.................... 1       1       seq
    ......................................................................agaaucuguugguaaagcUucu.................... 1       1       seq
    ......................................................................Cgaaucuguugguaaagccucu.................... 1       1       seq
    ......................................................................agaaucuguugguaaagccucA.................... 3       1       seq
    ......................................................................agaaucuguugguaaagccucu.................... 73      0       seq
    ......................................................................agaaucuguugguaaagccucuA................... 3       1       seq
    ......................................................................agaaucuguugguaaagccucuU................... 5       1       seq
    ......................................................................gaaucuguugguaaagccucu..................... 1       0       seq
    ......................................................................gaaucuguugguaaagccucuc.................... 1       0       seq
```

novel-mir-candidate-154

Provisional ID	:	chr15_33717
Score total	:	26.3
Score for star read(s)	:	3.9
Score for read counts	:	19.5
Score for mfe	:	1.9
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	50
Mature read count	:	49
Loop read count	:	0
Star read count	:	1

Mature Star

```
5'- ggacugcucuuagcuggguc acccugaaccacugcauacacu ucuuguuucaa gugaauguggugguuuugggccag agugaguuguccgugagauaguuuaaaugccuuugc -3'   obs
    ggacugcucuuagcuggguc acccugaaccacugcauacacu ucuuguuucaa gugaauguggugguuuugggccag agugaguuguccgugagauaguuuaaaugccuuugc        exp
    ((((.((((....((((.....((((((((((((((.(((((........)))))).))))))))))))))))))...)))).)))).........................   reads     mm        sample
    ..................ucacccugaaccacugcauaca.......................................................................   1         0         seq
    ..................ucacccugaaccacugcauacacu.....................................................................   2         0         seq
    ...................cacccugaaccacugcauaca......................................................................   1         0         seq
    ...................cacccugaaccacugcauNcacu....................................................................   1         1         seq
    ...................cacccugaaccacugcauacacu....................................................................   8         0         seq
    ....................Ccccugaaccacugcauacacu....................................................................   1         1         seq
    ....................acccugaaccacugcauacacu....................................................................   30        0         seq
    ....................acccugaaccacugcauaNacu....................................................................   1         1         seq
    .....................cccugaaccacugcauacacuu...................................................................   2         0         seq
    .....................cccugaaccacugcauacacuuU..................................................................   2         1         seq
    ......................................acuucuuguuucaagugaaug...................................................   1         0         seq
    ..........................................................gugaauguggugguuuugggccaU.............................   1         1         seq
    ...................................................................gugaguuguccgugagauaguu.........................   1         0         seq
```

novel-mir-candidate-225

Provisional ID	:	chr12_29906
Score total	:	2.4
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.7
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	88
Mature read count	:	86
Loop read count	:	0
Star read count	:	2

Star Mature

```
5'- uguuuauagugaagcaaaagaguacaugguguagcuggcucugacgccaguguccuauguucauagcauaggucacugggucagagccagcuguaccaccguggccaua  -3'   obs
    uguuuauagugaagcaaaagaguacaugguguagcugcucugacgccaguguccuauguucauagcauaggucacugggucagagccagcuguaccaccguggccaua        exp
    (((((......)))))...(..(((.(((((((((((((((((((.(((((((.(((((((((...)))))))).)))))).))))))))))))))))))).)))..)...  reads   mm   sample
    ........................gugguguagcuggcucugacgcc.......................................................  1       0    seq
    ....................................uggcucugacgccaguguccu.............................................  1       0    seq
    ....................................gcucugacgccaguguccuauU............................................  1       1    seq
    ......................................................................auaggucacugggucagagcc.....................  1       0    seq
    ......................................................................uaggucacugggucaga.........................  1       0    seq
    ......................................................................uaggucacugggucagag........................  2       0    seq
    ......................................................................uaggucacugggucagagc.......................  12      0    seq
    ......................................................................uaggucacugggucagagA.......................  15      1    seq
    ......................................................................uagUucacugggucagagc.......................  1       1    seq
    ......................................................................uaggucacugggucagagU.......................  1       1    seq
    ......................................................................uaggucacugggucagagcc......................  13      0    seq
    ......................................................................Gaggucacugggucagagcc......................  1       1    seq
    ......................................................................uaggucacugggUucagagcc.....................  1       1    seq
    ......................................................................uaggucacugggucagagcU......................  3       1    seq
    ......................................................................uaggucacugggucagagccU.....................  15      1    seq
    ......................................................................uaggucacugggucagagccG.....................  1       1    seq
    ......................................................................uaggucacugggucagagcca.....................  10      0    seq
    ......................................................................uaggucacugggucagagcUa.....................  1       1    seq
    ......................................................................uaggucacugggucagagcAa.....................  1       1    seq
    ......................................................................uaggucacugggucagagccaC....................  1       1    seq
    ......................................................................uaggucacugggucagagccaU....................  2       1    seq
    ......................................................................uaggucacugggucagagccagA...................  3       1    seq
    ..........................................................................acugggucagagccUgc.....................  1       1    seq
```

novel-mir-candidate-128

Provisional ID	:	chr19_41771
Score total	:	35.7
Score for star read(s)	:	3.9
Score for read counts	:	26.1
Score for mfe	:	1.1
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	63
Mature read count	:	60
Loop read count	:	2
Star read count	:	1

Mature **Star**

```
5'- agaaauccagaaguaaguca uggcagugcauacuguuggcuc agaaauucugugcagacagag cccacagcagcagcccugcccagc aucugcuucugaaacagccucuccag  -3'   obs
    agaaauccagaaguaaguca uggcagugcauacuguuggcuc agaaauucugugcagacagag cccacagcagcagcccugcccagc caucugcuucugaaacagccucuccag        exp
    .......((((((((.(((..(((((.((...((((.(((((.......(((....)))))))).))))).....)).)))))..).).)).)))))))..............   reads    mm    sample
    ...........aguaagucauUgcagugc.......................................................................................   1        1     seq
    ....................uggcagugcauacuguuggc...........................................................................   1        0     seq
    ....................uggcagugcauacuguuggcA..........................................................................   1        1     seq
    ....................Gggcagugcauacuguuggcu..........................................................................   1        1     seq
    ....................uggcagugcauacuguuggcu..........................................................................   9        0     seq
    ....................uggcagugcauacuguuggcuA.........................................................................   1        1     seq
    ....................uggcagugcauacuguuggcuU.........................................................................   1        1     seq
    ....................uggcagugcauacuguuggcuc........................................................................   39       0     seq
    ....................uggcagugcauacuguuggcucU.......................................................................   7        1     seq
    ..............................auacuguuggcucagaauucugu...............................................................   1        0     seq
    ...............................acuguuggcucagaauucugugc..............................................................   3        0     seq
    ........................................ucagaauucugugcagacagagccc...................................................   1        0     seq
    ..............................................uucugugcagacagagccc....................................................   1        0     seq
    ............................................................cccacagcagcagcccugcccagc..............................   1        0     seq
```

novel-mir-candidate-322

Provisional ID	:	chr16_34994
Score total	:	1.8
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	24
Mature read count	:	24
Loop read count	:	0
Star read count	:	0

Mature Star

```
5'- cagacuggaggccuaguuccuagcucuguccuugggaaucgcagggagcaggagcggguucccuugccaggagcugggGAAUUGGACCAUCAGGGUCGUCUUCGAGAUUCUUU -3'   exp
    ....((((.((((...((((((((((...(..(((((((((.........)))))))))..)...)))))))))))...)).)).)))))((((........)))).....
    ....................uagcucuguccuugggaaucg.....................................................................
    ....................uagcucuguccuugggaaucgc....................................................................
    ....................uagcucuguccuugggaaucgAa...................................................................
    ....................uagcucuguccuugggaaucgca...................................................................
```

reads	mm	sample
7	0	seq
15	0	seq
1	1	seq
1	0	seq

novel-mir-candidate-360

Provisional ID	:	chr6_16353
Score total	:	1.7
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	46
Mature read count	:	46
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- ccaggagaggcuccaugaggagaacagcauucagaguccaagggggagaaccccuguuccaagugggaacuuggaacagaaguucuccugccuccagcugagaagaugaucag  -3'   exp
    ...((((.(((((.(((..(....)..)))...)))))...(.(((((((..((((((((((....)))))))))))..)))))))).)))))..((((........))))   reads   mm   sample
    ............................auucagaguccaagggggagaac.......................................................   1       0    seq
    ...........................................................uuggaacagaaguucuccugA......................   1       1    seq
    ...........................................................uuggaacagaaguucuccugcU.....................   7       1    seq
    ...........................................................uuggaacagaaguucuccugcc.....................   12      0    seq
    ...........................................................uuggaacagaaguucuccugccu....................   13      0    seq
    ...........................................................uuggaacagaaguucuccugcUu....................   2       1    seq
    ...........................................................uggaacagaaguucuccugcc......................   2       0    seq
    ...........................................................uggaacagaaguucuccugccu.....................   1       0    seq
    ..........................................................gaacagaaguucuccugccu.......................   1       0    seq
    ...........................................................gaacagaaguucuccugccucA.....................   1       1    seq
    ..........................................................aacagaaguucuccugccu........................   3       0    seq
    ..........................................................aacagaaguucuccugccucca.....................   1       0    seq
    ...........................................................aacagaaguucuccugccuccagU...................   1       1    seq
    ...........................................................acagaaguucuccugccuccagU....................   1       1    seq
```

novel-mir-candidate-246

Provisional ID	:	chr12_27987
Score total	:	2.3
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.6
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	45
Mature read count	:	45
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- gggaguugcaggcaugugggccugggguugggaggggaaggagggcagagcagccacagaccaugagcucugucugccuuccucccagaccccaggacgccccaggccu  -3'   exp
    .........((((.(((.(((((((((((((.((((..((((((.(((((((((.............)))))))))).)))))))))).))))))))).).)))))).))))   reads    mm    sample
    ................ugggccugggguuggggag.......................................................................   1        0     seq
    ..............................................gcagaUcagccacagacc.........................................   1        1     seq
    ...........................................................cagaccaugagcucugucugcc...............................   1        0     seq
    ..............................................................ccaugagcucugucugccuuccucc.........................   1        0     seq
    ....................................................................cucugucugccuuccucccagaU...................   1        1     seq
    ....................................................................ucugucugccuuccucccag......................   2        0     seq
    ....................................................................ucugucugccuuccucccagU.....................   4        1     seq
    ....................................................................ucugucugccuuccucccaga.....................   23       0     seq
    ....................................................................ucugucugccuuccucccagaA....................   8        1     seq
    ....................................................................ucugucugccuuccucccagac....................   5        0     seq
    ....................................................................ucugucugccuuccucccagacU...................   1        1     seq
    ....................................................................ucugucugccuuccucccagacA...................   1        1     seq
    ...................................................................................ucccagaccccaggaUgc.........   1        1     seq
```

novel-mir-candidate-171

Provisional ID	:	chr10_25057
Score total	:	18.3
Score for star read(s)	:	3.9
Score for read counts	:	12.9
Score for mfe	:	0.5
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	37
Mature read count	:	36
Loop read count	:	0
Star read count	:	1

Mature **Star**

```
5'- aguguuuauuuaaaaugcagauuccugaacuccaucacagaguuuuugaaccaaucucuggaagggaauccaggaaguccauuuuaaguggaguuucacuguauuaaccuaa  -3'   obs
    aguguuuauuuaaaaugcagauuccugaacuccaucacagaguuuuugaaccaaucucuggaagggaauccaggaaguccauuuuaaguggaguuucacuguauuaaccuaa         exp
    ((((((((((((((((((....((((((...(((.((.(((((.............)))))))..)))...)))))))...)))))))))))))....))))............   reads   mm   sample
    .......auuuaaaaugUagauuccuga.......................................................................................   1       1    seq
    ...................gauuccugaacuccaucaca.............................................................................   1       0    seq
    ...................gauuccugaacuccaucacaga...........................................................................   1       0    seq
    ....................auuccugaacuccaucaca..............................................................................   1       0    seq
    ....................auuccugaacuccaucacaga............................................................................   3       0    seq
    ....................auuccugaacuccaucacagaA...........................................................................   3       1    seq
    ....................auuccugaacuccaucacagag...........................................................................   16      0    seq
    ....................auuccugaacuccaucacagagA..........................................................................   9       1    seq
    ....................auuccugaacuccaucacagagu..........................................................................   2       0    seq
    ......................................................uggaagggaauccaggaCg...........................................   1       1    seq
```

novel-mir-candidate-220

Provisional ID	:	chr12_28233
Score total	:	3.7
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	0.4
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	366
Mature read count	:	366
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- gaggcuuggggugaacuuuggauuuuuguggcagaauagauaggaaacugcuuugguggaguggaaaaauaacuggauuuggagucagaagccaugagaggcauuccagcu  -3'   exp
    ..((((.((((((..(((((((((((...((((.(((.(((.....(((((((...)))))))).....)).)))..)))).....)))))))))...))).)))))))))   reads     mm        sample
    ...........................................................aacuggaCuuggagucaga.....................   1         1         seq
    ...........................................................acuggauuuggagucaga......................   1         0         seq
    ...........................................................acuggauuuggagucagaag....................   10        0         seq
    ...........................................................acuggaAuuggagucagaag....................   7         1         seq
    ...........................................................acuggaCuuggagucagaagc...................   10        1         seq
    ...........................................................acuggauuuggagucagaagU...................   2         1         seq
    ...........................................................acuggauuuggagucagaagG...................   35        1         seq
    ...........................................................acuggaCuuggagucagaagcc..................   45        1         seq
    ...........................................................acuggauuuggagucagaagGc..................   163       1         seq
    ...........................................................acuggauuuggagucagaagcU..................   1         1         seq
    ...........................................................acuggauuuggagucagaagGca.................   26        1         seq
    ...........................................................acuggaCuuggagucagaagcca.................   30        1         seq
    ...........................................................acuggaCuuggagucagaagccau................   2         1         seq
    ...........................................................acuggauuuggagucagaagGcau................   2         1         seq
    ............................................................cuggauuuggagucagaag....................   1         0         seq
    ............................................................cuggauuuggagucagaagG...................   1         1         seq
    ............................................................cuggauuuggagucagaagGc..................   16        1         seq
    ............................................................cuggaCuuggagucagaagcc..................   4         1         seq
    ............................................................cuggaCuuggagucagaagcca.................   2         1         seq
    ............................................................cuggauuuggagucagaagGca.................   6         1         seq
    ............................................................uggaCuuggagucagaagcca..................   1         1         seq
```

novel-mir-candidate-141

Provisional ID	:	chrX_46080
Score total	:	30
Score for star read(s)	:	3.9
Score for read counts	:	23.1
Score for mfe	:	2.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	57
Mature read count	:	56
Loop read count	:	0
Star read count	:	1

Star **Mature**

```
5'- acucucaggcaccucacagauuugcuggccccagaggggcaggaggggcuggcaaggcccguuccagacuuugcuaacccugccuucccacaggggcuucuucacgugccuu  -3'   obs
    acucucaggcaccucacagauuugcuggccccagaggggcaggaggggcuggcaaggcccguuccagacuuugcuaacccugccuucccacaggggcuucuucacgugccuu        exp
    ......((((((.....(((......(((((((.(.((((.(((.((((.((((((((((........).))))))))).))))).))))))).).))))))))).....))))))).   reads   mm   sample
    ................................agAggcaggaggggcuggca.......................................................   1       1    seq
    ......................................................uugcuaacccugccuucccac.....................   1       0    seq
    ......................................................uugcuaacccugccuucccaU.....................   1       1    seq
    ......................................................uugcuaacccugccuucccaAa....................   1       1    seq
    ......................................................uugcuaacccugccuucccaUa....................   1       1    seq
    ......................................................uugcuGacccugccuucccaca....................   1       1    seq
    ......................................................uugcuaacccugccuucccaca....................   21      0    seq
    ......................................................uugcuaacccugccuucccacag...................   11      0    seq
    ......................................................uCgcuaacccugccuucccacag...................   1       1    seq
    ......................................................uugcuaacccugccuucccacaA...................   1       1    seq
    ......................................................uGgcuaacccugccuucccacag...................   1       1    seq
    ......................................................uugcuaacccugccuucccacagA..................   1       1    seq
    ......................................................uugcuaacccugccuucccacagU..................   14      1    seq
    .......................................................cuaacccugccuucccacagU...................   1       1    seq
```

novel-mir-candidate-436

Provisional ID	:	chr6_16560
Score total	:	1.1
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.4
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	42
Mature read count	:	42
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- acacacaccacauccucaccuccauugccaaagcaggccuguggccauaguuaacucacagagggugaggcacaaaccugcucugcacuggaagugagagcaacagcac  -3'   exp
     ..............(((((.((((.(((...((((((..((((.((.........((((.....)))))))))..))))))..))).)))).)))))).((....)).. reads     mm        sample
     ......................................................................cacaaaccugcucugcacu.................... 38        0         seq
     ......................................................................cacaaaccuUcucugcacu.................... 3         1         seq
     ......................................................................cacaaaccugcucAgcacu.................... 1         1         seq
```

novel-mir-candidate-59

Provisional ID	:	chr19_40780
Score total	:	79.4
Score for star read(s)	:	3.9
Score for read counts	:	72
Score for mfe	:	2.5
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	153
Mature read count	:	152
Loop read count	:	0
Star read count	:	1

Star Mature

```
5'- ucuccccaguggccgggauggggggggggguggcggagguuucugagaagugacauaggcugggaugacucagaaccgaccgccucccagcucucccucccggcucuccuc  -3'   obs
    ucuccccaguggccgggauggggggggggguggcggagguuucugagaagugacauaggcugggaugacucagaaccgaccgccucccagcucucccucccggcucuccuc         exp
    ..........(((((((((.(((((((.(((.((((((.((((.(((((..((..((.....))..))..)))))))))..)))))..)))..))))))))))))))).....   reads   mm   sample
    ............................Cgggguggcggagguuucugag.............................................................   1       1    seq
    ...............................................................augacucagaaccgaccgc...........................   1       0    seq
    ...............................................................ucagaaccgaccgccuccca..........................   2       0    seq
    ...............................................................ucagaaccgaccCcccucccag........................   1       1    seq
    ...............................................................ucagaaccgaccgccucccaU........................   2       1    seq
    ...............................................................ucagaaccgCccgccucccag........................   1       1    seq
    ...............................................................ucagaaccgaccgccucccaA........................   1       1    seq
    ...............................................................ucagaaccgaccUccucccag........................   1       1    seq
    ...............................................................ucagaaccgaccgccucccag........................   16      0    seq
    ...............................................................ucagaaccgaAcgccucccagc.......................   1       1    seq
    ...............................................................ucagaaccgaccUccucccagc.......................   1       1    seq
    ...............................................................ucagaaccgaccgccucccagU.......................   18      1    seq
    ...............................................................ucagaaccgacGgccucccagc.......................   1       1    seq
    ...............................................................ucagaaccgaccgccucccagc.......................   27      0    seq
    ...............................................................ucagaaccgaccgccucccagA.......................   36      1    seq
    ...............................................................ucagaacGgaccgccucccagcu......................   1       1    seq
    ...............................................................ucagaaccgaccgccucccagUu......................   3       1    seq
    ...............................................................ucagaaccgaccgccucccaAcu......................   1       1    seq
    ...............................................................ucagaaccgaccUccucccagcu......................   2       1    seq
    ...............................................................ucagaaccgaccgccucccagcu......................   25      0    seq
    ...............................................................ucagaaccgaccgccucccagcuAu....................   3       1    seq
    ...............................................................ucagaaccgaccgccucccagcuUu....................   3       1    seq
    ................................................................cagaaccgaccgccucccagA........................   2       1    seq
    ................................................................cagaaccgaccgccucccagcu.......................   3       0    seq
    ................................................................agaaccgaccgccucccaNcuc.......................   1       1    seq
```

novel-mir-candidate-35

Provisional ID	:	chr12_29062
Score total	:	120.5
Score for star read(s)	:	3.9
Score for read counts	:	113.8
Score for mfe	:	1.7
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	235
Mature read count	:	230
Loop read count	:	0
Star read count	:	5

Star Mature

```
5'- ggcagggauucuccccgaccccccagaaggguucuccacgggcuccauucucccaugugccaaacucgugcucucggggaaugcagagcccacuaggcagacccugcagcucca  -3'   obs
    ggcagggauucuccccgaccccccagaaggguucuccaccgggcuccauucucccaugugccaaacucgugcucucggggaaugcagagcccacuaggcagacccugcagcucca        exp
    .((((((..(((.((.((((........))))......((((((((((((((...((((.......))))....)))))))))..))))))....)).)))))))))........  reads   mm   sample
    ......................................acgggcuccauucucccaugu.......................................................  1       0    seq
    ......................................acgggcuccauucucccauguA......................................................  1       1    seq
    ......................................acgggcuccauucucccaugugU.....................................................  1       1    seq
    ......................................acgggcuccauucucccaugugA.....................................................  1       1    seq
    ......................................acgggcuccauucucccaugugcU....................................................  1       1    seq
    ......................................................................ucucggggaaugcagagc.........................  1       0    seq
    ......................................................................ucucAgggaaugcagagcc........................  1       1    seq
    ......................................................................ucucggggaaugcagagcc........................  4       0    seq
    ......................................................................ucucggggaaugcagagccU.......................  1       1    seq
    ......................................................................ucucggggGaugcagagccc.......................  1       1    seq
    ......................................................................ucucggggaaugcagagccA.......................  3       1    seq
    ......................................................................ucucggggaaugcagagccc........................  20      0    seq
    ......................................................................ucucggggaaugcagagccca......................  2       0    seq
    ......................................................................ucucggggaaugcagagcAca......................  1       1    seq
    ......................................................................ucucggggaaugcagagcccac.....................  3       0    seq
    ......................................................................ucucggggaaugcagagcccaA.....................  3       1    seq
    ......................................................................ucucggggaaugcagagcccaGu....................  1       1    seq
    ......................................................................uGucggggaaugcagagcccacu....................  1       1    seq
    ......................................................................ucucggggaaugcagagcccacu....................  171     0    seq
    ......................................................................ucucggggaaugcagagcNcacu....................  1       1    seq
    ......................................................................ucucggggaaugcagagcccaAu....................  2       1    seq
    ......................................................................Ncucggggaaugcagagcccacu....................  1       1    seq
    ......................................................................ucucggggaaugcagagcccaUu....................  1       1    seq
    ......................................................................ucucggggaaugcagagcccacA....................  3       1    seq
    ......................................................................ucGcggggaaugcagagcccacu....................  1       1    seq
    ......................................................................ucucggggaaCgcagagcccacu....................  1       1    seq
    ......................................................................ucucggggaaugcagagcGcacu....................  3       1    seq
    ......................................................................ucucggggaaugcagagcccacua...................  2       0    seq
    ......................................................................cucggggaaugcagagcccacu....................  2       0    seq
```

novel-mir-candidate-356

Provisional ID	:	chr11_26607
Score total	:	1.7
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	36
Mature read count	:	36
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- guaagcacaguccagaaggucacuuggaggggaaacuuggauuggggagagggcucugcccucccuuccucauuccagggcucuccucuacccuuagauaucaucuuccau  -3'   exp
    .........(((...((((.....(((((((((..((((((.(((((((((((...)))))))...)))))))..))))))).))))))..))))))))).))))..))).............   reads   mm   sample
    ...................................acuuggauuggggagagggcucugcccucccuu.........................................   1       0    seq
    ...................................................................uuccucauuccagggcucuccucuacccuuag..............   1       0    seq
    ...................................................................ucauuccagggcucuccucuac....................   1       0    seq
    ...................................................................ucauuccagggcucuccucuacc...................   1       0    seq
    ...................................................................ucauuccagggcucuccucuacU...................   6       1    seq
    ...................................................................cauuccagggcucuccucua......................   2       0    seq
    ...................................................................cauuccagggcucuccucuac.....................   1       0    seq
    ...................................................................cauuccagggcucuccucuaU.....................   3       1    seq
    ...................................................................cauuccagggcucuccucuacU....................   22      1    seq
```

novel-mir-candidate-424

Provisional ID	:	chr7_19809
Score total	:	1.2
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.5
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	29
Mature read count	:	28
Loop read count	:	0
Star read count	:	1

Mature Star

```
5'- ugcauguccuguuuccugccacuuggaaagaggacuguggaagucaggucuucccaguccucaccaguaaagcaagcaacgaaugccuucaguccagguaaauauguccaggcuuu  -3'   obs
    ugcauguccuguuuccugccacuuggaaagaggacuguggaagucaggucuucccaguccucaccaguaaagcaagcaacgaaugccuucaguccagguaaauauguccaggcuuu        exp
    .((((....(((((.((...(((.((...((((((((.((((((......)))))))))))).)))))..)).)))))....))))....((.((.((.........)).)))).. reads   mm   sample
    ....................acuuggaaagaggacuguggaagu.......................................................................  3      0    seq
    ....................Ccuuggaaagaggacuguggaaguc.....................................................................  1      1    seq
    ....................acuuggaaagaggacuguggaaguc.....................................................................  15     0    seq
    ........................ggaaagaggacuguggaaguc.......................................................................  1      0    seq
    ........................gaaagaggacuguggaagu.........................................................................  1      0    seq
    .........................aaagaggacuguggaagu........................................................................  2      0    seq
    .........................aaagaggacuguggaaguc.......................................................................  4      0    seq
    .........................Caagaggacuguggaaguc.......................................................................  1      1    seq
    ..............................................gucuucccaguccucacc...................................................  1      0    seq
```

novel-mir-candidate-192

Provisional ID	:	chr8_20651
Score total	:	10
Score for star read(s)	:	3.9
Score for read counts	:	3.2
Score for mfe	:	1.9
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	18
Mature read count	:	17
Loop read count	:	0
Star read count	:	1

Star Mature

```
5'- ugagcugcaggagagcucaucuuaaaaucaaaaaggguugagcaaaggaugaacacaaucuacagucagauuaugucacuccuuugcccagaccuucuugauugcuucuaau  -3'   obs
    ugagcugcaggagagcucaucuuaaaaucaaaaaggguugagcaaaggaugaacacaaucuacagucagauuaugucacuccuuugcccagaccuucuugauugcuucuaau        exp
    ((((((.......)))))).....(((((((.(((((((((.((.(((((.....)))))).)))))).)))))))).)))))))).))))))).........   reads    mm    sample
    ......................................ugagcaaaggaugaacacaaucu.................................................   1        0     seq
    ......................................................................uuaugucacuccuuugcccaga...................   15       0     seq
    ......................................................................uuaugucacuccuuugcccagaA..................   2        1     seq
```

novel-mir-candidate-421

Provisional ID	:	chr8_21017
Score total	:	1.2
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.5
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	41
Mature read count	:	41
Loop read count	:	0
Star read count	:	0

Mature **Star**

```
5'- gacugcuuacaauugcuggua accuggua gauuuauuuucccu caaguaccuaguaaccuuaugaagguag ggagggguagaugcucuaccacauuc cuucagcuguauugagu  -3'   exp
    .(((...((((.(((..((....((((((((((((((((((.....((((.(((....)))..))))))))))))))))))..))))....))..)))).))))...)))   reads   mm   sample
    ....................accuggua gauuuauuuucc.......................................................................   1       0    seq
    ....................accuggua gauuuauuuuccc......................................................................   1       0    seq
    ....................accuggua gauuuauuuucccu.....................................................................   35      0    seq
    ....................accuggua gauCuauuuucccu.....................................................................   1       1    seq
    .....................ccuggua gauuuauuuucccu......................................................................   3       0    seq
    ..........................................................accuuaugaagguagggaggguaga...............................   1       0    seq
    ...........................................................................uagggaggUuagaugcucuac.......................   1       1    seq
    ...........................................................................uagggaggguagaugcucuac.......................   1       0    seq
```

novel-mir-candidate-184

Provisional ID	:	chr16_35999
Score total	:	10.6
Score for star read(s)	:	3.9
Score for read counts	:	7.8
Score for mfe	:	1.7
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	27
Mature read count	:	26
Loop read count	:	0
Star read count	:	1

Mature Star

```
5'- ggacaggcgugaccgaguugccgggucaguugguucucccuggagugcccaagcugaauccacagggcccagcugccuugcuucuuguuccuucugcgagcugguauugagcgc  -3'   obs
    ggacaggcgugaccgaguugccgggucaguugguucucccuggagugcccaagcugaauccacagggcccagcugccuugcuucuuguuccuucugcgagcugguauugagcgc        exp
    .(.((((.(.((.((((..((.(((.(((((((.(((..((((..((....))....))))..)))).))))))))))).))..)))).)))).)))))..(((.......))).. reads   mm   sample
    ..................ugccgggucaguugguucuc.................................................................... 1      0    seq
    ..................ugccgggucaguugguucucc................................................................... 2      0    seq
    ..................ugccgggucaguugguucuAcc.................................................................. 1      1    seq
    ..................ugccgggucaguugguucuccc.................................................................. 3      0    seq
    ..................ugccgggucaguugguucucccu................................................................. 2      0    seq
    ..................ugccgggucaguugguucucccuU................................................................ 2      1    seq
    ..................ugccgggucaguugguucucccug................................................................ 2      0    seq
    ..................ugccgggucaguugguucucccuAg............................................................... 1      1    seq
    ..................ugccgggucaguugguucucccugU............................................................... 6      1    seq
    ..................ugccgggucaguugguucucccugA............................................................... 4      1    seq
    ..................ugccgggucaguugguucucccugUa.............................................................. 2      1    seq
    ...........................................................cagggcccagcugccuugcuuc.......................... 1      0    seq
    ......................................................................uguuUcuucugcgagcug.......................... 1      1    seq
```

novel-mir-candidate-71

Provisional ID	:	chr1_381
Score total	:	62.8
Score for star read(s)	:	3.9
Score for read counts	:	58.8
Score for mfe	:	-0.8
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	127
Mature read count	:	108
Loop read count	:	13
Star read count	:	6

```
Star                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
Mature
auuuuaguggcaacagcuuugaacuagagagguagauguauuaaagcagcauagaaccauaacuucuagauaaguaguugccacuaggagauauuagaaaguuagaaugu
.....uaauguaguugccacuaggagau.....  4   0   seq
.....uaauguaguugccacuaggagaA.....  5   1   seq
.....uaauguaguugccacuaggagaua.....  1   0   seq
.....uaauguaguugccacuaggagauU.....  3   1   seq
.....aauguaguugccacuaggag.....  5   0   seq
.....aauguaguugccacuaggaga.....  12   0   seq
.....aauguaguugccacuaggagaA.....  3   1   seq
.....aauguaguugccacuaggagaua.....  1   0   seq
.....uugccacuaggagauauuag.....  2   0   seq
.....gagauauuagaaaguuagCaugu  1   1   seq
```

```
Star                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
Mature
5'- auuuuaguggcaacagcuuugaacuagagagguagauguauuaaagcagcauagaaccauaacuucuagauaaguaguugccacuaggagauauuagaaaguuagaaugu  -3'   obs
     auuuuaguggcaacagcuuugaacuagagagguagauguauuaaagcagcauagaaccauaacuucuagauaaguaguugccacuaggagauauuagaaaguuagaaugu        exp
     .(((((((((((.((.(((..((((((.(((.((((.........)))).)))).....)))))).))).)).))))))))))))).....  reads   mm   sample
     ..uuuaguggcaacagcuuuga.....  1   0   seq
     ..uuuaguggcaacagcuuugaa.....  1   0   seq
     ..uuuaguggcaacagcuuugaaA.....  1   1   seq
     ..uuuaguggcaacagcuuugaac.....  1   0   seq
     ..uuuaguggcaacagcuuugaacu.....  2   0   seq
     ......guggcaacagcuuugaacuagagagguagaug.....  1   0   seq
     ...........aacagcuuugaacuagagaggu.....  1   0   seq
     ......................aacuagagagguagauguauu.....  3   0   seq
     ......................aacuagagagguagauguauuaa.....  2   0   seq
     ......................aacuagagagguagauguauuaaagU.....  1   1   seq
     ......................acuagagagguagauguauuaaag.....  1   0   seq
     ......................cuagagagguagauguauu.....  1   0   seq
     ......................cuagagagguagauguauuaaagcagcauCga.....  1   1   seq
     ......................................uauuaaagcagcauagaacc.....  1   0   seq
     ......................................auuaaagcagcauagaacc.....  1   0   seq
     ........................................aagcagcauagaaccauaacuucu.....  1   0   seq
     ........................................agcagcauagaaccauaacuuc.....  1   0   seq
     ..............................................acuucuagauaauguaguugcc.....  1   0   seq
     ...............................................uucuagauaauguaguugccacu.....  2   0   seq
     ..............................................ucuagauaauguaguugccacua.....  1   0   seq
     ...............................................uagauaauguaguugccacu.....  2   0   seq
     ...............................................uagauaauguaguugccacua.....  1   0   seq
     ...............................................uagauaauguaguugccacuag.....  1   0   seq
     ...............................................uagauaauguaguugccacuagA.....  1   1   seq
     ................................................uaauguaguugccacuagg.....  1   0   seq
     ................................................uaauguaguugccacuagga.....  3   0   seq
     ................................................uaauguaguugccacuaggU.....  1   1   seq
     ................................................uGauguaguugccacuaggag.....  1   1   seq
     ................................................uaauguaguugccacuaggag.....  19   0   seq
     ................................................uaauguaguugccacuaggaA.....  1   1   seq
     ................................................uaauguaguugccacuaggaAa.....  1   1   seq
     ................................................uaauguaguugccacuaggaga.....  40   0   seq
     ................................................uaauguaguugccacuaggagU.....  7   1   seq
```

novel-mir-candidate-44

Provisional ID	:	chr11_27342
Score total	:	105.9
Score for star read(s)	:	3.9
Score for read counts	:	102.6
Score for mfe	:	2.2
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	213
Mature read count	:	209
Loop read count	:	0
Star read count	:	4

Star Mature

```
5'- acucccuacuggugaggcugcgccuggggcggaggggguaggggccacagagcaggGcacccggccauccCaucugugaccccaccucuaggauggcucccgagguggcugc  -3'   obs
    acucccuacuggugaggcugcgccuggggcgaggggguaggggccacagagcaggGcacccggccauccCaucugugaccccaccucuaggauggcucccgagguggcugc        exp
    .(((((....)).)))((.((((((((((.(((((((.((((.((((((....(((.....)))......)))))).)))))))))).....).).).)))).)).)).))  reads   mm   sample
    ...............................gagggguaggggccacagagca...............................................  1      0    seq
    ...............................gagggguaggggccacagagcag..............................................  1      0    seq
    ...............................gagggguaggggccacagagcagA.............................................  1      1    seq
    ....................................gguaggggccacagagcaA...............................................  1      1    seq
    ......................................................ccaucugugaccccaccucu.......................  10     0    seq
    ......................................................ccaucugugaccccaccucA.......................  1      1    seq
    ......................................................ccaucugugaccccaccucua......................  2      0    seq
    ......................................................ccaucugugaccccaccucuaU.....................  1      1    seq
    ......................................................ccaucugugaccccaccGcuag.....................  1      1    seq
    ......................................................ccaucugAgaccccaccucuag.....................  1      1    seq
    ......................................................ccaucugugaccccaccucuag.....................  23     0    seq
    ......................................................ccaucugugaccccaccucuaA.....................  1      1    seq
    ......................................................ccaucugugaccccaccucuagU....................  8      1    seq
    ......................................................ccaucugugaccccaccucuagAa...................  2      1    seq
    ......................................................caucugugaccccaccucu........................  1      0    seq
    ......................................................caucugugaccccaccucua......................  2      0    seq
    ......................................................caucugugaccccaccucuag.....................  41     0    seq
    ......................................................caucugugacAccaccucuag.....................  1      1    seq
    ......................................................Gaucugugaccccaccucuag.....................  1      1    seq
    ......................................................caucugugaccccaccucuaA.....................  2      1    seq
    ......................................................caucugugaccccaccucAag.....................  1      1    seq
    ......................................................caucugugaccccaccucuaU.....................  1      1    seq
    ......................................................caucugugaccccaccucuagU....................  56     1    seq
    ......................................................caucugugaccccaccucuagA....................  41     1    seq
    ......................................................caucugugaccccaccucuaAg....................  1      1    seq
    ......................................................caucugugaccccaccucuagAa...................  5      1    seq
    ......................................................caucugugaccccaccucuagga...................  2      0    seq
    ......................................................caucugugaccccaccucuagUa...................  2      1    seq
    .......................................................aucugugaccccaccucuag.....................  2      0    seq
```

novel-mir-candidate-326

Provisional ID	:	chr22_43564
Score total	:	1.8
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	111
Mature read count	:	111
Loop read count	:	0
Star read count	:	0

Mature Star

```
5'- ccucugugacugccugggaauguggggcgacaagguuugcugcugagaacaguuugaaaaccagcaaagcagguggcccagggccaggcagcucugcaacaccccugugg  -3'    exp
    ....(((((((((((((..(.(((((.((..(.((((((((((....)))........)))))))..)..))).)))))).)).))))))))).))).))).(((....))).   reads     mm        sample
    ccucugugacugccugggaa.....................................................................................   3         0         seq
    .cucugugacugccugggaa.....................................................................................   2         0         seq
    ...................auguggggcgacaagguuugcu.................................................................   1         0         seq
    ...................auguggggcgacaagguuugcug................................................................   1         0         seq
    ...................auguggggcgacaagguuugcugU...............................................................   1         1         seq
    ...................auguggggcgacaagguuugcugcA..............................................................   1         1         seq
    ....................uguggggcgacaagguuug...................................................................   2         0         seq
    ....................uguggggcgacaagguuugc..................................................................   2         0         seq
    ....................uAuggggcgacaagguuugcu.................................................................   1         1         seq
    ....................ugCgggcgacaagguuugcu..................................................................   1         1         seq
    ....................uguggggcgacaagguuugcu.................................................................   14        0         seq
    ....................uguggggcgacaagguuugcuU................................................................   1         1         seq
    ....................uguggggcgacaagguuugcuA................................................................   1         1         seq
    ....................uguggggcgacaagguuugcug................................................................   20        0         seq
    ....................uguggggcgacaagguuugcugc...............................................................   5         0         seq
    ....................uguggggcgacaagguuugcugA...............................................................   2         1         seq
    ....................uguggggcgacaagguuugcugU...............................................................   5         1         seq
    ....................uguggggcgacaagguuugcugcu..............................................................   45        0         seq
    ....................uguggggcgacaagguuugcugcA..............................................................   4         1         seq
    ....................uUuggggcgacaagguuugcugcu..............................................................   2         1         seq
    .....................gugggcgacaagguuugcugA................................................................   1         1         seq
    .....................gugggcgacaagguuugcCgcu................................................................   1         1         seq
```

novel-mir-candidate-202

Provisional ID	:	chr20_42536
Score total	:	5.2
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.9
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	48
Mature read count	:	46
Loop read count	:	0
Star read count	:	2

Star Mature

```
5'- ggaccucacccccuggauuucugacagggcuuggagggaccaggguuuccagagaugcucaccuugucucugcagcccuggagcccccugucccuggccguccucccagcc -3'   obs
    ggaccucacccccuggauuucugacagggcuuggagggaccaggguuuccagagaugcucaccuugucucugcagcccuggagcccccugucccuggccguccucccagcc        exp
    ((((.......(((((.........)))))...((.(((.(((((((((..(((((((.........)))))))).)))))))..)))))).))))((((.........)))).. reads    mm     sample
    ................................uggagggaccaggguuuccaga........................................................ 1        0      seq
    ......................................gaccaggguuuccagaga........................................................ 1        0      seq
    ..............................................................ucugcagcccuggagccccc....................... 1        0      seq
    ..............................................................ucugcagcccuggagcccccu...................... 4        0      seq
    ..............................................................ucugcagcccuggagccccug...................... 2        0      seq
    ..............................................................ucugcagcccuggagccccugu..................... 12       0      seq
    ..............................................................ucugcagcccuggagccccugA..................... 12       1      seq
    ..............................................................ucugcagcccuggagccccuguU.................... 7        1      seq
    ..............................................................ucugcagcccuggagccccuguA.................... 5        1      seq
    ..............................................................ucugcagcccuggagccccugucU................... 1        1      seq
    ...............................................................cugcagcccuggagccccug...................... 1        0      seq
    ...............................................................cugcagcccuggagccccugu..................... 1        0      seq
```

novel-mir-candidate-84

Provisional ID	:	chr11_25881
Score total	:	53.4
Score for star read(s)	:	3.9
Score for read counts	:	45.5
Score for mfe	:	3
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	101
Mature read count	:	71
Loop read count	:	0
Star read count	:	30

```
                                 Star                          Mature
5'- auggaaguuuggggcccaggcaugggguugugguucugaggucuugggccaucagugaugucacaaccagauggcccaagaccccagaccacaaccccaugucugguguugu  -3'    obs
    auggaaguuuggggcccaggcaugggguugugguucugaggucuugggccaucagugaugucacaaccagauggcccaagaccccagaccacaaccccaugucugguguugu         exp
    ..........(.((((((((((((((((((((((((.(((((((((((((.(((.----)))-----)))))))))))))).))))))))))))))))))))).)))).)   reads      mm         sample
    ............................uugugguucugaggucuugA.......................................................   1          1          seq
    ............................uugugguucugaggucuugggccauU.................................................   1          1          seq
    ............................ugugguucugaggucuugggcca....................................................   2          0          seq
    ...............................uggucugaggucuugggcc.....................................................   7          0          seq
    ...............................uggucugaggucuugggcU.....................................................   1          1          seq
    ...............................uggucugaggucuugggcca....................................................   4          0          seq
    ...............................uggucugaggucuugggcAau...................................................   1          1          seq
    ...............................uggucugaggucuugggccau...................................................   2          0          seq
    ...............................uggucugaggucuugggccauc..................................................   5          0          seq
    ...............................uggucugaggucuugggccauA..................................................   1          1          seq
    ...............................uggucugaggucuugggccauU..................................................   5          1          seq
    ...............................uggucugaggucuugggccaucU.................................................   2          1          seq
    ..................................................................auggcccaagaccccagacU.....................   1          1          seq
    ..................................................................auggcccaagaccccagaccacU..................   3          1          seq
    ..................................................................uggcccaagaccccagacc......................   2          0          seq
    ..................................................................uggcccaagaccccagaccac....................   2          0          seq
    ..................................................................uggcccaagaccccagaccaG....................   1          1          seq
    ..................................................................uggcccaagaccccagaccaca...................   33         0          seq
    ..................................................................uggcccaGgaccccagaccaca...................   2          1          seq
    ..................................................................uggcccaagaccccagaccacU..................   18         1          seq
    ..................................................................uUgcccaagaccccagaccaca...................   1          1          seq
    ..................................................................uggcccaagGccccagaccaca...................   1          1          seq
    ..................................................................uggcccaagaccccagaccaAaa..................   1          1          seq
    ..................................................................uggcccaagaccccagaccacaa..................   2          0          seq
    ..................................................................uggcccaagaccccagaccacaaAcc...............   1          1          seq
    ...................................................................cccaagaccccagaccaca....................   2          0          seq
    ......................................................................caagaccccagaccacaacccA...............   1          1          seq
    .......................................................................accacaaccccaugucuggugu...............   1          0          seq
```

novel-mir-candidate-279

Provisional ID	:	chr3_9986
Score total	:	2
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.3
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	25
Mature read count	:	25
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- uccacagauggacucuccaggccuuggaggcucccuggagauggugagggcagggagugugcugagucaugccuugcccucucccucuaggaccucagcauggcccugccc  -3'   exp
    ((((....)))).....((((((.((((((...(((((((..((.(((((((((((.(((........))).)))))))))).)))))))))).))))..)).)).)))).....
    ...acagauggacucuccaggccuuggaggcu.............................................................................
    ...............................................gcagggagugugcugagC.........................................
    ......................................................................ugccuugcccucucccucuag....................
    ......................................................................ugccuugcccucucccucuaU....................
    ......................................................................ugccuugcccucucccucuagU...................
    ......................................................................ugccuugcccucucccucuagA...................
    ......................................................................ugccuugcccucucccucuagUa..................
```

reads	mm	sample
1	0	seq
1	1	seq
2	0	seq
1	1	seq
12	1	seq
5	1	seq
5	1	seq

novel-mir-candidate-362

Provisional ID	:	chr14_32631
Score total	:	1.6
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.9
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	820
Mature read count	:	820
Loop read count	:	0
Star read count	:	0

Mature **Star**

```
5'- gggcagaagccggcuuuccugacuccuaguccagggcuggacauaaguguagccacagagagcugcagcuugacucccuaucugacaaagcugagugaggaaggcccgg  -3'   exp
    .(((....)))(((((((((.(((((((.(((.(((...(((..((((((((((.......)))))))..))))..)))...)))))))..))..))))).))))))))...
    ................Gccugacuccuaguccagggcu.....................................................................
    ................Acugacuccuaguccaggg.......................................................................
    ................Ncugacuccuaguccaggg.......................................................................
    ................Acugacuccuaguccagggc......................................................................
    ................ccugacuccAaguccagggc......................................................................
    ................ccugacuccuaguccagggc......................................................................
    ................Ncugacuccuaguccagggc......................................................................
    ................ccugacuccAaguccagggcu.....................................................................
    ................ccugacuccCaguccagggcu.....................................................................
    ................Ncugacuccuaguccagggcu.....................................................................
    ................cGugacuccuaguccagggcu.....................................................................
    ................ccugacuccuaguccagggcu.....................................................................
    ................ccugacuccuCguccagggcu.....................................................................
    ................ccugacuGcuaguccagggcu.....................................................................
    ................Acugacuccuaguccagggcu.....................................................................
    ................ccugacuccuaguccagggcuU....................................................................
    ................Gcugacuccuaguccagggcug....................................................................
    ................ccugacuccuaguccagggcuA....................................................................
    ................ccugacuccuaguccagggcuC....................................................................
    ................ccugacuccuaguccagggcuCga..................................................................
    ................ccugacuccuaguccagggcuAga..................................................................
    ................cugacuccuaguccagggc.......................................................................
    ................cugacuccuaguccagggU.......................................................................
    ................cugacuccuaguccagggcu......................................................................
    ................cugacuccuaguccagggcuU.....................................................................
    ................cugacuccuaguccagggcuA.....................................................................
    ................ugacuccuaguccagggc........................................................................
    ................uUacuccuaguccagggcu.......................................................................
    ................ugacuccuaguccagggcG.......................................................................
    ................ugacuccuaguccagggcu.......................................................................
    ................ugacuccuaguccaCggcu.......................................................................
    ................ugacuccuaguGcagggcu.......................................................................
    ................ugacNccuaguccagggcu.......................................................................
    ................Cgacuccuaguccagggcu.......................................................................
```

reads	mm	sample
2	1	seq
1	1	seq
1	1	seq
13	1	seq
1	1	seq
8	0	seq
1	1	seq
1	1	seq
1	1	seq
24	1	seq
4	1	seq
45	0	seq
1	1	seq
1	1	seq
124	1	seq
4	1	seq
107	1	seq
4	1	seq
35	1	seq
1	1	seq
1	1	seq
4	0	seq
1	1	seq
26	0	seq
8	1	seq
1	1	seq
27	0	seq
4	1	seq
3	1	seq
277	0	seq
1	1	seq
1	1	seq
1	1	seq
1	1	seq

Mature **Star**

```
gggcagaagccggcuuuccugacuccuaguccagggcuggacauaaguguagccacagagagcugcagcuugacucccuaucugacaaagcugagugaggaaggcccgg
..................ugacuccuaguccagggAu.......................................................................
..................ugacuccuaguccagggcuU......................................................................
..................ugacuccuaguccagggcuA......................................................................
..................ugacuccuaguccagggcuAg.....................................................................
..................ugacuccuaguccagggcuCga....................................................................
..................ugacuccuaguccagggcugAa....................................................................
..................ugacuccuaguccagggcuAga....................................................................
...................gacuccuaguccagggcu.......................................................................
...................gacuccuaguccagggcuU......................................................................
```

1	1	seq
45	1	seq
19	1	seq
3	1	seq
1	1	seq
2	1	seq
6	1	seq
7	0	seq
3	1	seq

novel-mir-candidate-324

Provisional ID	:	chr5_13691
Score total	:	1.8
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	306
Mature read count	:	302
Loop read count	:	0
Star read count	:	4

```
                                   Star                                   Mature
5'- ccacgguguguaagggugccuggggugggucaggugggggugagaugcagaggccuggccuguuuaacggguccaccuguuucuccacccacacucaggccacauccgcau  -3'    obs
    ccacgguguguaagggugccuggggugggucaggugggggugagaugcagaggccuggccuguuuaacggguccaccuguuucuccacccacacucaggccacauccgcau         exp
    .((.((((........))))))(((((((((.((((((((((((((.((((.((((((.........))))))...)))).))).)))))).)))))).)))))).))))....   reads      mm         sample
    .........guaagggugccuggggug.......................................................................................   1          0          seq
    ..............................ucagggugggggugagaugcaga.............................................................   1          0          seq
    ..............................cagggugggggugagaugcagaggccuggccuguu.................................................   1          0          seq
    ...................................gugggggugagaugcagaggccuggcc.....................................................   2          0          seq
    ...................................gugggggugaAaugcagaggccuggcc.....................................................   1          1          seq
    ...................................gugggggugagaugcagaggccuggccug...................................................   1          0          seq
    ...................................gugggggugagaugcagaggccuggccuUu..................................................   1          1          seq
    ....................................uggggugagaugcagaggccu..........................................................   1          0          seq
    ..............................................Cugcagaggccuggccug...................................................   3          1          seq
    ..............................................................uguuaacggguccaccuguuucuccacccacacu...................   1          0          seq
    ...............................................................aacggguccaccuguuucuccacccaU.....................   1          1          seq
    ...............................................................aacggguccaccuguuucuccacccacacucag...............   2          0          seq
    ...............................................................aacggguccaccuguuucuccacccacacucagU..............   1          1          seq
    ..................................................................guccaccuguuucuccacccaca.....................   1          0          seq
    ....................................................................uccaccuguuucuccacccc......................   3          0          seq
    ....................................................................uccaccuguuucuccaccca......................   21         0          seq
    ....................................................................uccaccuguuucuccacccaU.....................   5          1          seq
    ....................................................................uccaccuguuucuccacccac.....................   11         0          seq
    ....................................................................uccaccuguuucuccacccaA.....................   3          1          seq
    ....................................................................uccaccuguuucuccacccaGa....................   6          1          seq
    ....................................................................uccaccuguuCcuccacccaca....................   1          1          seq
    ....................................................................uccaccuguuucuccacccGca....................   1          1          seq
    ....................................................................uGcaccuguuucuccacccaca....................   1          1          seq
    ....................................................................uccaccuguuucuccacccaUa....................   2          1          seq
    ....................................................................uccaccuguuucuccacccaca....................   176        0          seq
    ....................................................................Gccaccuguuucuccacccaca....................   1          1          seq
    ....................................................................uccaccuguuucuccacccaAa....................   18         1          seq
    ....................................................................uccaccuguuucuccacccacU....................   15         1          seq
    ....................................................................uccaccuguuucuccaccNaca....................   1          1          seq
    ....................................................................uccaccuguuucuccacccacaA...................   10         1          seq
    ....................................................................uccaccuguuucuccacccacac...................   5          0          seq
    ....................................................................uccaccUuuucuccacccacac....................   1          1          seq
    ....................................................................uccaccuguuucuccacccacaU...................   2          1          seq
```

```
                                   Star                                   Mature
ccacgguguguaagggugccuggggugggucaggugggggugagaugcagaggccuggccuguuuaacggguccaccuguuucuccacccacacucaggccacauccgcau
.......................................................................uccaccuguuucuccacccacacA.................   3          1          seq
.......................................................................uccaccuguuucuccacccacacu..................   13         0          seq
.......................................................................caccuguuucuccacccacacu....................   2          0          seq
.......................................................................ccuguuucuccacccacacucagU..................   1          1          seq
.......................................................................uguuucuccacccacacucagU....................   2          1          seq
```

novel-mir-candidate-222

Provisional ID	:	chr6_16625
Score total	:	2.5
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	-0.7
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	665
Mature read count	:	665
Loop read count	:	0
Star read count	:	0

Mature Star

```
5'- cuacuccacaaccauucuugaucccaccgcugccaaaaggguaaggauucacccuugcuaccuuuucagaaauguggaccaugauggagaugccugcauuguuagac  -3'   exp
    ((((....((..(((.(((.(((((((..(((..(((((((((((((.......)))))))).)))))))))...)))).....))).)))))))..))....).))).. reads    mm    sample
    ...................Aaucccaccgcugccaaa.......................................................................  2      1     seq
    ...................Caucccaccgcugccaaa.......................................................................  1      1     seq
    ...................gaucccaccgcugccaCa.......................................................................  2      1     seq
    ...................gaucccaccgcugccaaaa......................................................................  1      0     seq
    ....................aucccaccgcugccaaGa......................................................................  64     1     seq
    ....................aucccaccgcugccaaUa......................................................................  1      1     seq
    ....................aucccaccgcugccaaaG......................................................................  1      1     seq
    ....................aucccaccgUugccaaaa......................................................................  1      1     seq
    ....................aucccaccgcugccaaaa......................................................................  126    0     seq
    ....................aucccaccgcugccaaCa......................................................................  174    1     seq
    ....................aucccaccgcugccaGaa......................................................................  8      1     seq
    ....................aucccaccAcugccaaaa......................................................................  5      1     seq
    ....................aucccaccgcugccaCaa......................................................................  262    1     seq
    ....................aucccaccgcugccaCaag.....................................................................  2      1     seq
    ....................aucccaccgcugccaaaaA.....................................................................  12     1     seq
    ....................aucccaccgcugccaaaagA....................................................................  2      1     seq
    ....................ucccaccgcugccaaaaA.....................................................................  1      1     seq
```

novel-mir-candidate-62

Provisional ID	:	chr1_3916
Score total	:	72.6
Score for star read(s)	:	3.9
Score for read counts	:	65.9
Score for mfe	:	1.8
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	141
Mature read count	:	140
Loop read count	:	0
Star read count	:	1

Star Mature

```
5'- aaggguucucuugugugugucucccauuuagaggcagaugggccagaguguucuagagauccagacucuagagcuccgaucccauccacccccucagcuguggucacacac  -3'   obs
    aaggguucucuugugugugucucccauuuagaggcagaugggccagaguguucuagagauccagacucuagagcuccgaucccauccacccccucagcuguggucacacac        exp
    ............(((((((....((((...((((..(((((((.(.((((..(((((((.......)))))))))))).).)))))))....))))....)))).))))))))   reads    mm      sample
    ...................................cagaugggccagaguguucuaga.......................................................   1        0       seq
    ..........................................................agaAccagacucuagagc.....................................   1        1       seq
    ..........................................................agacucuagagcuccgaucccauccaccccuA.......................   1        1       seq
    ..........................................................agacucuagagcuccgaucccauccaccccucG.......................   1        1       seq
    ..........................................................agacucuagagcuccgauAccauccaccccuca.......................   1        1       seq
    ..........................................................gacucuagagcuccgaucccauccaccccu..........................   1        0       seq
    ...............................................................cuagagcuccgaucccaucca.......................   1        0       seq
    ...............................................................cuagagcuccgaucccauccac......................   1        0       seq
    ...............................................................cuagagcuccgaucccauccaU......................   2        1       seq
    ...............................................................cuagagcuccgaucccauccacA.....................   2        1       seq
    ...............................................................cuagagcuccgaucccauccacU.....................   1        1       seq
    ...............................................................cuagagcuccgaucccauccacc.....................   1        0       seq
    ...............................................................uagagcuccgaucccaucca........................   2        0       seq
    ...............................................................uagagcuccgaucccauccaU......................   2        1       seq
    ...............................................................uagagcuccgaucccauccaA......................   2        1       seq
    ...............................................................uagagcuccgaucccauccac......................   12       0       seq
    ...............................................................uagagcuccgaucccauccacc.....................   69       0       seq
    ...............................................................uagagcuccgaucccauccacA.....................   6        1       seq
    ...............................................................uagagcuccgauGccauccacc.....................   1        1       seq
    ...............................................................uagagcuccgaucccauccacU.....................   29       1       seq
    ...............................................................uagagcuccgaucccaucAacc.....................   2        1       seq
    ...............................................................uagagcuccgaucccauccaccA....................   5        1       seq
    ...............................................................uagagcuccgaucccauccaccc....................   2        0       seq
```

novel-mir-candidate-105

Provisional ID	:	chr12_28850
Score total	:	43.3
Score for star read(s)	:	3.9
Score for read counts	:	36.3
Score for mfe	:	2.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	83
Mature read count	:	74
Loop read count	:	0
Star read count	:	9

Mature Star

```
5'- ucucagcacugacacuggggacuaggccuggagcggaacugaaagggagacuaggcccguuccccuccaggccuggccuauauccucccagugauccuuaaggccugcag  -3'    obs
    ucucagcacugacacuggggacuaggccuggagcggaacugaaagggagacuaggcccguuccccuccaggccuggccuauauccucccagugauccuuaaggccugcag         exp
    .(((((..(((((((((((((.(((((((((((.(((((.....(((........)))))))).))))))))))))).........)))))))).))....)).)))).))
```

reads	mm	sample
1	0	seq
1	0	seq
1	0	seq
1	0	seq
1	0	seq
1	0	seq
1	0	seq
5	1	seq
1	1	seq
1	1	seq
1	0	seq
13	0	seq
11	0	seq
1	1	seq
9	1	seq
18	0	seq
6	0	seq
1	1	seq
1	1	seq
1	1	seq
2	1	seq
1	0	seq
1	0	seq
1	0	seq
2	0	seq
1	0	seq
1	1	seq
1	1	seq
1	0	seq
1	1	seq
2	1	seq
1	0	seq

novel-mir-candidate-272

Provisional ID	:	chr2_5705
Score total	:	2.1
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.4
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	75
Mature read count	:	75
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- cagcucuuaaggcugucaaauguauugggaauggggccuggccccugagaugugugagguuauacaucauacaacucaggggccaggcaccauucacaucacauuuauccua  -3'   exp
    (((((.....)))))..((((((..((.((((((.(((((((((((((.(((((.(((.....)))))))).))))))))))))))).)))))).))..)))))).....
```

reads	mm	sample
1	0	seq
1	1	seq
1	1	seq
1	1	seq
1	0	seq
1	0	seq
1	1	seq
4	0	seq
1	1	seq
4	0	seq
1	1	seq
14	0	seq
2	1	seq
2	1	seq
2	1	seq
1	1	seq
1	1	seq
2	1	seq
23	0	seq
1	1	seq
2	1	seq
4	0	seq
1	1	seq
3	1	seq
1	1	seq
1	0	seq

novel-mir-candidate-378

Provisional ID	:	chr1_4833
Score total	:	1.5
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.8
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	70
Mature read count	:	69
Loop read count	:	0
Star read count	:	1

Mature Star

```
5'- uuugguaacaguggagcaaagaccccagcaaggcaaaccugagccauucuugggacagggguuggucuugaugggggccacaucuccacaugguaucccccacuuaaauuugcuc  -3'   obs
    uuugguaacaguggagcaaagaccccagcaaggcaaaccugagccauucuugggacagggguuggucuugaugggggccacaucuccacaugguaucccccacuuaaauuugcuc        exp
    ...((((.(((((((((.....(((((.(((((((...((((..(((....)))..))))....)))))))..)))))).....)))))).))).))))..................   reads    mm    sample
    .................aaagaccccagcaaggcaaacc.......................................................................   1        0     seq
    .................Caagaccccagcaaggcaaaccu......................................................................   1        1     seq
    .................aaagaccccagcaaggcaaaccu......................................................................   4        0     seq
    ..................aagaccccagcaaggcaaaccu......................................................................   4        0     seq
    ..................agaccccagcaaggcaaaccu.......................................................................   1        0     seq
    ..................agaccccagcaaggcaaaGcug......................................................................   1        1     seq
    ..................agaccccGgcaaggcaaaccug......................................................................   1        1     seq
    ..................agaccccagcaaggcaaaccug......................................................................   21       0     seq
    ..................agaccccagcaaggcaaaccuga.....................................................................   4        0     seq
    ..................agaccccagcaaggcaaaccugU.....................................................................   27       1     seq
    ...................gaccccagcaaggcaaaccugU......................................................................   3        1     seq
    ....................accccagcaaggcaaaccugagU....................................................................   1        1     seq
    ..........................................................guuggucuugaugggggccaUa...............................   1        1     seq
```

novel-mir-candidate-302

Provisional ID	:	chr22_43425
Score total	:	1.9
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	16
Mature read count	:	16
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- cuggccgcacugugaggcacugaggaugcccucacacgugcaucugcaugugggcgugcauguggcaagcaugugcaggugcugugugggcacgaucaugccugcccucuac  -3'   exp
    ..((((((...)))(((((.(((...(((((..(((((.((((((((((((((.(.(((.....))).))))))))))))))))))))))...)))))))))))......
    ........................................................................ugugcaggugcugugugggc.....................
    ........................................................................ugugcaggugcugugugggca....................
    ........................................................................ugugcaggugcugugugggAa....................
    ........................................................................ugugcaggugcugugugggcaU...................
    ........................................................................ugugcaggugcugugugggcaA...................
    ........................................................................ugugcaggugcugugugggcaUg..................
```

reads	mm	sample
1	0	seq
2	0	seq
5	0	seq
2	1	seq
3	1	seq
2	1	seq
1	1	seq

novel-mir-candidate-298

Provisional ID	:	chr4_12074
Score total	:	1.9
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	112
Mature read count	:	112
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- agaaagcaucacucagcauaaacugcaugccugcacaccaggcaugcaugaugcaccaggcaugcaugaugugcag  -3'   exp
    ...............((((.(((((((((((.....(((((((((((.....((.((........)).)))))))))))))))).....)))))))))))..)))))..   reads   mm   sample
    ...............agcauaaacugcaugccugcac.....................................................................   4       0    seq
    ...............cauaaacugcaugccugca......................................................................   8       0    seq
    ...............cauaaacugcaugccugcac.....................................................................   4       0    seq
    ...............cauaaacugcaugccugcaca....................................................................   38      0    seq
    ...............cauaaacugcaugccugcacU....................................................................   2       1    seq
    ...............cauaaacugcaugccugcaAa....................................................................   4       1    seq
    ...............cauaaacugUaugccugcaca....................................................................   2       1    seq
    ...............cauaaacugcaugccugcacaA....................................................................   4       1    seq
    ...............cauaaacugcaugccugcacac....................................................................   12      0    seq
    ...............cauaaacugcauUccugcacac....................................................................   2       1    seq
    ...............cauaaacugcaugccugcacacA....................................................................   12      1    seq
    ...............cauaaacugcaugccugcaGacc....................................................................   2       1    seq
    ...............cauaaacugcaugccugcacacU....................................................................   28      1    seq
    ...............cauaaacugcauUccugcacacc....................................................................   2       1    seq
    ...............cauaaacugcaugcGugcacacc....................................................................   2       1    seq
    ...............cauaaacugcaugccugcacacc....................................................................   66      0    seq
    ...............cauaaacugcaugccugcacacGa...................................................................   2       1    seq
    ...............cauaaacugcaugccugcacaccU...................................................................   6       1    seq
    ...............cauaaacugcaugccugcacacca...................................................................   2       0    seq
    ...............cauaaacugcaugccugcacaccaU..................................................................   2       1    seq
    ..................uaaacugcaugccugcacU.....................................................................   2       1    seq
    ..................uaaacugcaugccugcaca.....................................................................   4       0    seq
    ..................uaaacugcauCccugcacacc...................................................................   2       1    seq
    ..................uaaacugcaugccugcacacc...................................................................   6       0    seq
    ..................uaaacugcaugccugcacacU...................................................................   2       1    seq
    ..................uaaacugcaugccugcacaccaA.................................................................   2       1    seq
    ..................uaaacugcaugccugcacaccaU.................................................................   2       1    seq
    ...........................................................agcauaaacugcaugccugcac.....................   4       0    seq
    ...........................................................cauaaacugcaugccugca........................   8       0    seq
    ...........................................................cauaaacugcaugccugcac.......................   4       0    seq
    ...........................................................cauaaacugcaugccugcacU......................   2       1    seq
    ...........................................................cauaaacugUaugccugcaca......................   2       1    seq
    ...........................................................cauaaacugcaugccugcaca......................   38      0    seq
    ...........................................................cauaaacugcaugccugcaAa......................   4       1    seq
```

Star Mature

```
agaaagcaucacucagcauaaacugcaugccugcacaccaggcaugcaugaugcaccaggcaugcaugaugugcag
    ...........................................................cauaaacugcaugccugcacaA.....................   4       1    seq
    ...........................................................cauaaacugcauUccugcacac.....................   2       1    seq
    ...........................................................cauaaacugcaugccugcacac.....................   12      0    seq
    ...........................................................cauaaacugcaugccugcacacc....................   66      0    seq
    ...........................................................cauaaacugcaugcGugcacacc....................   2       1    seq
    ...........................................................cauaaacugcaugccugcaGacc....................   2       1    seq
    ...........................................................cauaaacugcaugccugcacaA.....................   12      1    seq
    ...........................................................cauaaacugcauUccugcacacc....................   2       1    seq
    ...........................................................cauaaacugcaugccugcacacU....................   28      1    seq
    ...........................................................cauaaacugcaugccugcacaccU...................   6       1    seq
    ...........................................................cauaaacugcaugccugcacacGa...................   2       1    seq
    ...........................................................cauaaacugcaugccugcacacca...................   2       0    seq
    ...........................................................cauaaacugcaugccugcacaccaU..................   2       1    seq
    ...........................................................uaaacugcaugccugcaca........................   4       0    seq
    ...........................................................uaaacugcaugccugcacU........................   2       1    seq
    ...........................................................uaaacugcauCccugcacacc......................   2       1    seq
    ...........................................................uaaacugcaugccugcacacU......................   2       1    seq
    ...........................................................uaaacugcaugccugcacacc......................   6       0    seq
    ...........................................................uaaacugcaugccugcacaccaA....................   2       1    seq
    ...........................................................uaaacugcaugccugcacaccaU....................   2       1    seq
```

novel-mir-candidate-395

Provisional ID	:	chr5_14857
Score total	:	1.4
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.9
Score for randfold	:	-2.2
Score for cons. seed	:	3
Total read count	:	91
Mature read count	:	91
Loop read count	:	0
Star read count	:	0

Mature **Star**

```
5'- ugguugucagcaccucaccagcucggugggcauguccucugcagaccgggaagcagcccuguggggagauggaagagcaccagcugcaggagaggcaccagcuggugaagcagcag  -3'    exp
    ((((.....((..(((..(((((.((((.....((((((.(..((.(((.......))).))).)))).)))....)))))))))...)))..)))))))((((......)))).. reads      mm         sample
    ...........accucaccagcucggugggcauguccucugca..................................................................  1          0          seq
    ...........accucaccagcucggugggcauguccucugcag.................................................................  1          0          seq
    ..............ucaccagcucggugggcauguccucugcaga...............................................................  1          0          seq
    ...............caccagcucggugggcauguccucugcag................................................................  1          0          seq
    ..................cagcucggugggcauguccucug....................................................................  2          0          seq
    ..................cagcucggugggcauguccucugU...................................................................  4          1          seq
    ..................cagcucggugggcauguccucugA...................................................................  7          1          seq
    ..................cagcucggugggcauguccucugc...................................................................  4          0          seq
    ..................cagcucggugggcauguccucugUa..................................................................  1          1          seq
    ..................cagcucggugggcauguccucugcU..................................................................  1          1          seq
    ..................cagcucggugggcauguccucugcaga................................................................  3          0          seq
    ..................agcucggugggcauguccucug.....................................................................  1          0          seq
    ..................agcucggugggcauguccucugA.....................................................................  11         1          seq
    ..................agcucggugggcauguccucugc.....................................................................  5          0          seq
    ..................agcucggugggcauguccucugAa....................................................................  1          1          seq
    ..................agcucggugggcauguccucugca....................................................................  3          0          seq
    ..................agcucggugggcauguccucugcU....................................................................  2          1          seq
    ..................agcucggugggcauguccucugcag...................................................................  8          0          seq
    ..................agcucggugUauguccucugcag.....................................................................  1          1          seq
    ..................agcucggugggcauguccucugcaA...................................................................  1          1          seq
    ..................agcucggugggcauguccuNugcaga..................................................................  1          1          seq
    ..................agcucggugggcauguccucugcagU..................................................................  20         1          seq
    ..................agcucggugggcauguccucugcaga..................................................................  9          0          seq
    ..................agcucggugggcauguccucugcagaU.................................................................  1          1          seq
    ......................ucggugggcauguccucugcaga...................................................................  2          0          seq
    ......................ucggugggcauguccCcugcaga...................................................................  1          1          seq
    .......................cggugggcauguccucugcaga....................................................................  1          0          seq
    ........................guggcauguccucugcagU......................................................................  1          1          seq
```

novel-mir-candidate-189

Provisional ID	:	chr2_5073
Score total	:	10.5
Score for star read(s)	:	3.9
Score for read counts	:	8.3
Score for mfe	:	1.1
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	28
Mature read count	:	27
Loop read count	:	0
Star read count	:	1

Star **Mature**

```
5'- aacaccacguaaggcucagggcuaggguugcgcagggcuaguagccagaggguagggaagaaaagucucauuuucugacuguccuauucuccagcugacacuucugcugaaguu  -3'   obs
    aacaccacguaaggcucagggcuaggguugcgcagggcuaguagccagaggguagggaagaaaagucucauuuucugacuguccuauucuccagcugacacuucugcugaaguu        exp
    ............(((((.(.((.......)).).)))))..((((..((((((((((.(((((.......)))))).....)))))))))..))))..(((((....))))).   reads    mm    sample
    ............................uugcgcagggcuaguagccagaggg.............................................................   1        0     seq
    ...............................................gaUgguagggaagaaaaguc.............................................   1        1     seq
    ..................................................................cauuuucugacuguccuauucuccag....................   2        0     seq
    ...................................................................auuuucugacuguccuauucuccag...................   5        0     seq
    ...................................................................auuuucugacuguccuauucuccagA..................   1        1     seq
    ..................................................................uuuucugacuguccuauucuccag.....................   10       0     seq
    ...................................................................uuuucugacuguccuauucuccagA....................   3        1     seq
    ....................................................................ucugacuguccuauucuccag.......................   2        0     seq
    ....................................................................ucugacuguccuauucuccagA......................   2        1     seq
    .....................................................................ugacuguccuauucuccagU.......................   1        1     seq
    ......................................................................guccuauucuccagcuga........................   1        0     seq
    ...........................................................................aCcugacacuucugcugaagu.                  1        1     seq
```

novel-mir-candidate-159

Provisional ID	:	chr15_33792
Score total	:	22.3
Score for star read(s)	:	3.9
Score for read counts	:	15.4
Score for mfe	:	2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	42
Mature read count	:	41
Loop read count	:	0
Star read count	:	1

Star Mature

```
5'- cuguguaguggucgcagggggaguagggaguaaagcguuaggaguggagaggcggggacccgaaggacggUUUUUCCUCCCGCUCCUAACGGAacugcuugggcagagcuggg  -3'   obs
    cuguguaguggucgcagggggaguagggaguaaagcguuaggaguggagaggcggggacccgaaggacggUUUUUCCUCCCGCUCCUAACGGAacugcuugggcagagcuggg        exp
    (((((.......)))))......((((.(((....(((((((((((((.((((.(((((((........)))))))))))))))))))))..)))).)))))(((...)))...   reads   mm   sample
    ................................cguuaggaguggagaggc................................................................   1       0    seq
    ...............................................cccgaaggacgguuuuuccuc.............................................   1       0    seq
    ..................................................uuuuuccucccgcuccuaNcg.....................................   1       1    seq
    ..................................................uuuuuccucccgcuccuaacg.....................................   4       0    seq
    ..................................................uuuuuccucccgcuccuaacgg....................................   2       0    seq
    ..................................................uuuuuccucccgcucUuaacgg....................................   1       1    seq
    ..................................................uuuuuccucccgcuccuaacgga...................................   13      0    seq
    ..................................................uuuuuccucccgcuccuaacggU...................................   1       1    seq
    ..................................................uuuuuccucccgcuccuaacggaa..................................   1       0    seq
    ..................................................uuuuuccucccgcuccuaacggaU..................................   3       1    seq
    ..................................................uuuuuccucccgcuccuaacg.....................................   6       0    seq
    ..................................................uuuuuccucccgcuccuaacgg....................................   2       0    seq
    ..................................................uuuuuccucccgcuccuaacgga...................................   2       0    seq
    ..................................................uuuuuccucccgcuccuaaNgga...................................   1       1    seq
    ..................................................uuuuuccucccgcuccuaacggaU..................................   2       1    seq
    ..................................................uuuuuccucccgcuccuaacggUa..................................   1       1    seq
    ..................................................uuccucccgcuccuaacggaC.....................................   1       1    seq
```

novel-mir-candidate-215

Provisional ID	:	chr3_10771
Score total	:	4.1
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	0.8
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	22824
Mature read count	:	22824
Loop read count	:	0
Star read count	:	0

Mature **Star**

```
5'- aaaaaucucugaggcacauguaaacauccuugacugaguccuuaacaccuaaguggagggacagagccugcagucagucauuggaaaaggagcaaaagcuagggagu  -3'   exp
     ......((((..(((...(((.....(((.(((((((((((((((.((......)).)))))))..........)))))))..)))......)))...)))..)))).   reads   mm   sample
     ..................uguUaacauccuugacug.....................................................................   1       1    seq
     ..................uguaaacauccuNgacug.....................................................................   1       1    seq
     ..................uguaaacauccuugaGug.....................................................................   1       1    seq
     ..................Cguaaacauccuugacug.....................................................................   2       1    seq
     ..................uguaaacauccuugacGg.....................................................................   4       1    seq
     ..................uguaaacauccuuCacug.....................................................................   1       1    seq
     ..................uguaaacauccuugacCg.....................................................................   2       1    seq
     ..................uguaaacauccuugacuA.....................................................................   8       1    seq
     ..................uguaaacCuccuugacug.....................................................................   1       1    seq
     ..................uguaaCcauccuugacug.....................................................................   1       1    seq
     ..................uUuaaacauccuugacug.....................................................................   30      1    seq
     ..................uAuaaacauccuugacug.....................................................................   2       1    seq
     ..................uguaaaacauccAugacug....................................................................   2       1    seq
     ..................uguaaaacaucAuugacug....................................................................   9       1    seq
     ..................ugAaaacauccuugacug.....................................................................   1       1    seq
     ..................uguaaaacauccuugGcug....................................................................   1       1    seq
     ..................uguaGacauccuugacug.....................................................................   2       1    seq
     ..................uguaaacauccuAgacug.....................................................................   1       1    seq
     ..................uguaaaacauUcuugacug....................................................................   39      1    seq
     ..................uguaaaUauccuugacug.....................................................................   1       1    seq
     ..................uguaaacNuccuugacug.....................................................................   1       1    seq
     ..................uguaaacGuccuugacug.....................................................................   1       1    seq
     ..................uguaaacauGcuugacug.....................................................................   2       1    seq
     ..................uguaaaacauccCugacug....................................................................   10      1    seq
     ..................Nguaaacauccuugacug.....................................................................   1       1    seq
     ..................uguaaacauccuuAacug.....................................................................   2       1    seq
     ..................uguaaacauccuugacuU.....................................................................   1       1    seq
     ..................uguaaacauccuugacug.....................................................................   6257    0    seq
     ..................uCuaaacauccuugacug.....................................................................   5       1    seq
     ..................uguaaacauccuugUcug.....................................................................   1       1    seq
     ..................Aguaaacauccuugacug.....................................................................   4       1    seq
     ..................ugCaaacauccuugacug.....................................................................   4       1    seq
     ..................ugGaaacauccuugacug.....................................................................   2       1    seq
     ..................uguCaacauccuugacug.....................................................................   1       1    seq
```

Mature **Star**

```
aaaaaucucugaggcacauguaaacauccuugacugaguccuuaacaccuaaguggagggacagagccugcagucagucauuggaaaaggagcaaaagcuagggagu
     ..................uguaaacauccuugaAug.....................................   2       1    seq
     ..................uguaaacauccuGgacug.....................................   1       1    seq
     ..................Gguaaacauccuugacug.....................................   3       1    seq
     ..................uguaaacauccuuUacug.....................................   1       1    seq
     ..................uguaaacauUcuugacuga....................................   7       1    seq
     ..................uguaaacauAcuugacuga....................................   2       1    seq
     ..................ugCaaacauccuugacuga....................................   7       1    seq
     ..................Aguaaacauccuugacuga....................................   20      1    seq
     ..................uguaaUcauccuugacuga....................................   2       1    seq
     ..................uguaaacauccuuUacuga....................................   3       1    seq
     ..................uguGaacauccuugacuga....................................   5       1    seq
     ..................ugAaaacauccuugacuga....................................   5       1    seq
     ..................uguaaCcauccuugacuga....................................   1       1    seq
     ..................uguaaaAauccuugacuga....................................   3       1    seq
     ..................uguNaacauccuugacuga....................................   1       1    seq
     ..................uguaaacaGccuugacuga....................................   1       1    seq
     ..................uguaaacGuccuugacuga....................................   7       1    seq
     ..................uUuaaacauccuugacuga....................................   131     1    seq
     ..................uguaaacauccuAgacuga....................................   2       1    seq
     ..................uguaaacaAccuugacuga....................................   2       1    seq
     ..................uguaGacauccuugacuga....................................   1       1    seq
     ..................uguaaacauccuugGcuga....................................   4       1    seq
     ..................uguaaacauccCugacuga....................................   19      1    seq
     ..................uguaaacauccuugacuga....................................   12426   0    seq
     ..................uguaaacauccuugaUuga....................................   3       1    seq
     ..................uguaaacauccuugacuCa....................................   4       1    seq
     ..................ugGaaacauccuugacuga....................................   6       1    seq
     ..................uguaaacaucGuugacuga....................................   3       1    seq
     ..................uguaaaGauccuugacuga....................................   3       1    seq
     ..................uguaaacauccuugaAuga....................................   1       1    seq
     ..................uguUaacauccuugacuga....................................   2       1    seq
     ..................uguaaacauccuCgacuga....................................   11      1    seq
     ..................uguaaacauccuuAacuga....................................   3       1    seq
     ..................uguaaacaCccuugacuga....................................   2       1    seq
     ..................uAuaaacauccuugacuga....................................   17      1    seq
     ..................uNuaaacauccuugacuga....................................   9       1    seq
     ..................uguaaacauccuugacugC....................................   28      1    seq
     ..................Gguaaacauccuugacuga....................................   23      1    seq
     ..................uguaaacauccAugacuga....................................   5       1    seq
     ..................uguaaacaNccuugacuga....................................   2       1    seq
     ..................uguaaacNuccuugacuga....................................   1       1    seq
     ..................uguaaacaucUuugacuga....................................   14      1    seq
     ..................uguaaacauGcuugacuga....................................   7       1    seq
     ..................uguaaacauccuugacuAa....................................   21      1    seq
     ..................uguaaacauccuugaGuga....................................   4       1    seq
     ..................Nguaaacauccuugacuga....................................   6       1    seq
     ..................uguaaacauccuGgacuga....................................   5       1    seq
     ..................uguaaacauccuugacGga....................................   2       1    seq
     ..................uguaaacCuccuugacuga....................................   3       1    seq
     ..................uguaaGcauccuugacuga....................................   4       1    seq
     ..................uguaaacaucAuugacuga....................................   10      1    seq
     ..................uguaaaauccGugacuga....................................   2       1    seq
     ..................uguaaacauccuugacuUa....................................   11      1    seq
     ..................uguaaacauccuugacCga....................................   3       1    seq
     ..................Cguaaacauccuugacuga....................................   7       1    seq
     ..................uguaaacauccuugacugU....................................   2273    1    seq
     ..................uguaaaUauccuugacuga....................................   4       1    seq
     ..................uCuaaacauccuugacuga....................................   8       1    seq
     ..................uguaaacauccuugUcuga....................................   3       1    seq
     ..................uUuaaacauccuugacugag...................................   1       1    seq
     ..................uguaaacauccuugacugUg...................................   1       1    seq
     ..................uguaaacauccuugacugag...................................   11      0    seq
     ..................uguaaacauccuugacugaC...................................   7       1    seq
     ..................uguaaacauccuugacugaU...................................   16      1    seq
     ..................uguaaacauccuugacugGg...................................   842     1    seq
     ..................uguaaacauccuugacugaA...................................   297     1    seq
     ..................uguaaacauccuugacugaAu..................................   19      1    seq
     ..................uguaaacauccuugacugGgu..................................   13      1    seq
     ..................uguaaacauccuugacugagA..................................   6       1    seq
     ..................uguaaacauccuugacugaUu..................................   1       1    seq
```

Mature Star

```
aaaaaucucugaggcacauguaaacauccuugacugaguccuuaacaccuaaguggagggacagagccugcaguccagucauuggaaaaggagcaaaagcuagggagu
...................guaaacauccuugacugU.......................................................................   3         1         seq
...................guaaacauccuuUacuga.......................................................................   1         1         seq
...................guaaacauccuugacuga.......................................................................   36        0         seq
...................guaaacauccuugacugaA......................................................................   1         1         seq
...................guaaacauccuugacugGg......................................................................   1         1         seq
```

novel-mir-candidate-193

Provisional ID	:	chr11_26079
Score total	:	7.3
Score for star read(s)	:	3.9
Score for read counts	:	0.1
Score for mfe	:	2.3
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	12
Mature read count	:	11
Loop read count	:	0
Star read count	:	1

Star **Mature**

```
5'- cucaguucaggcugcucacaaagccuggacuggggacuuccuggggguggguggugguuaggggugccuuauca ucaucucugucugcaggugggaguuccccucggag  -3'   obs
    cucaguucaggcugcucacaaagccuggacuggggacuuccuggggguggguggugguuaggggugccuuauca ucaucucugucugcaggugggaguuccccucggag        exp
    ..(((((((((((.......)))))))))))(((((((((((.(((.((((((((((.(((.....))).))))))))))...))).)))).))).))))))).........   reads   mm   sample
    ........................................uggggguggguggGgguua.......................................................   1       1    seq
    ...............................................................ccuuaucaucucugucugcagA...................   1       1    seq
    ...............................................................uaucaucucugucugcugA......................   1       1    seq
    ...............................................................uaucaucucugucugcugcag....................   5       0    seq
    ...............................................................uaucaucucugucugcugcagA...................   5       1    seq
```

novel-mir-candidate-150

Provisional ID	:	chr4_12093
Score total	:	26.9
Score for star read(s)	:	3.9
Score for read counts	:	25.1
Score for mfe	:	-6.6
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	61
Mature read count	:	45
Loop read count	:	0
Star read count	:	16

Mature Star

```
5'- uguauaaauuuggguucaguucaaaaguauggggauggcuguuacagcuauucagacuuucauauuguucaaaacuuuguauacaagacuuuauuuuuuuuaauuuuuuuuuu  -3'    obs
    uguauaaauuuggguucaguucaaaaguauggggauggcuguuacagcuauucagacuuucauauuguucaaaacuuuguauacaagacuuuauuuuuuuuaauuuuuuuuuu         exp
    ((((((....(((((((((...(((((...(((((((((...)))))))))..)))))...))))).....))))...))))))..............................   reads      mm         sample
    ....................aaaaguauggggauggcug.......................................................................   4          0          seq
    ....................aaaaguauggggauggcugu......................................................................   2          0          seq
    ....................aaaaguauggggauggcuguu.....................................................................   35         0          seq
    ....................aaaaguauggggauggcCguu.....................................................................   1          1          seq
    ....................CaaaguauggggauggcuguU.....................................................................   2          1          seq
    .......................aaguauggggauggcuguuacagc...............................................................   1          0          seq
    .........................aguauggggauggcuguuacagcuCuucagac.....................................................   1          1          seq
    ........................................Ccagcuauucagacuuuc...................................................   1          1          seq
    .......................................acagcuauucagacuuuc....................................................   15         0          seq
    ...................................................aGuuucauauuguucaaa.......................................   1          1          seq
    ....................................................uuucauauuguucaaaacuuuguauacaagacuuua....................   1          0          seq
    ......................................................uuUauauuguucaaaacuuugua..............................   2          1          seq
    ..................................................................................uuuuuuaUuuuuuuuuuu.         1          1          seq
```

novel-mir-candidate-345

Provisional ID	:	chr7_19936
Score total	:	1.7
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	640
Mature read count	:	632
Loop read count	:	0
Star read count	:	8

```
                                   Star                 Mature
5'- augaaaguagggagggugcucugaauaauugaauuggccuaacaggguaagcauacguccaaccggcaguaggacguaugcuuacccuguccauaaaacaucuguccugga  -3'   obs
    augaaaguagggagggugcucugaauaauugaauuggccuaacagggguaagcauacguccaaccggcaguaggacguaugcuuacccuguccauaaaacaucuguccugga        exp
    .......(((((.(((((.................(((....(((((((((((((((((((.((.....)).)))))))))))))))))))).....)))))).)))))..  reads   mm   sample
    ......................................ccuaacaggguaagcauacguc.......................................................  2       0    seq
    ......................................cuaacaggguaagcauacguccaU.....................................................  2       1    seq
    ......................................cuaacaggguaagcauacguccaacc...................................................  1       0    seq
    ......................................uaacaggguaagcauacgucc........................................................  2       0    seq
    ......................................uaacaggguaagcauacgucca.......................................................  1       0    seq
    ......................................uaacaggguaagcauacguccaaA.....................................................  1       1    seq
    ......................................aacaggguaagcauacgucc........................................................  1       0    seq
    ......................................aacaggguaagcauacguccaa......................................................  1       0    seq
    ......................................acaggguaagcauacguc..........................................................  1       0    seq
    ......................................acaggguaagcauacgucU.........................................................  1       1    seq
    ......................................acaggguaagcauacgucca........................................................  1       0    seq
    ......................................acaggguaagcauacguccaac......................................................  1       0    seq
    ..........................................guaagcauacguccaaccgg.....................................................  1       0    seq
    ..........................................uaagcauacguccaaccggcagu..................................................  1       0    seq
    ..........................................uaagcauacguccaaccggcagua.................................................  1       0    seq
    ..........................................uaagcauacguccaaccggcaguagga..............................................  1       0    seq
    ..........................................aagcauacguccaaccggc......................................................  1       0    seq
    ..........................................aagcauacguccaaccggcaguagga...............................................  1       0    seq
    ............................................uacguccaaccggcaguaggac.................................................  1       0    seq
    ............................................acguccaaccggcaguagga...................................................  2       0    seq
    ..............................................guccaaccggcaguaggac...................................................  1       0    seq
    ................................................uccaaccggcaguaggacguaugcuuaccc......................................  1       0    seq
    ....................................................accggcaguaggacguaugcuua...........................................  1       0    seq
    ......................................................cggcaguaggacguaugcuuac..........................................  1       0    seq
    ........................................................gcaguaggacguaugcuuac..........................................  1       0    seq
    ..........................................................aguaggacguauUcuuacccugucc....................................  1       1    seq
    ............................................................uaggacguaugcuuacccug......................................  1       0    seq
    ............................................................uaggacguaugcuuacccugu.....................................  6       0    seq
    ............................................................uaggacguaugcuuacccugA.....................................  1       1    seq
    ............................................................uaggacguaugcuuacccNguc....................................  2       1    seq
    ............................................................uaggacgAaugcuuacccuguc....................................  1       1    seq
    ............................................................uaggacguaugcuuacccGguc....................................  1       1    seq
    ............................................................uaggacguaugcuuacGcuguc....................................  1       1    seq
```

```
                                   Star                 Mature
augaaaguagggagggugcucugaauaauugaauuggccuaacaggguaagcauacguccaaccggcaguaggacguaugcuuacccuguccauaaaacaucuguccugga
.......................................................................uaggacguaugcuuacccuguc.....................  319     0    seq
.......................................................................uaggacguaugcuuacccuguA.....................  2       1    seq
.......................................................................uaggacguaugcuuacccAguc.....................  1       1    seq
.......................................................................uaggacguaugcuuaccGuguc.....................  3       1    seq
.......................................................................uaggacguaugcuuacccCguc.....................  1       1    seq
.......................................................................uaggacguaugcuuacccuguU.....................  11      1    seq
.......................................................................uaggacguaugcuuacccuguU.....................  139     1    seq
.......................................................................uaggacgGaugcuuacccuguc.....................  1       1    seq
.......................................................................uaggacguaugcuuacccuguA.....................  12      1    seq
.......................................................................uaggacguaugcuuacccuguc.....................  47      0    seq
.......................................................................uaggacguaugcuuacccuguccU...................  1       1    seq
.....................................................................gacguaugcuuacccuguc.........................  1       0    seq
.....................................................................gacguaugcuuacccuguca........................  1       0    seq
.....................................................................gacguaugcuuacccuguccU.......................  4       1    seq
.....................................................................gacguaugcuuacccuguccaua.....................  1       0    seq
.....................................................................gacguaugcuuacccuguccauU.....................  1       1    seq
.......................................................................acguaugcuuacccuguc.........................  9       0    seq
.......................................................................acguaugcuuacccuguA.........................  1       1    seq
.......................................................................acguaugcuuacccuguc.........................  21      0    seq
.......................................................................acguaugcuuacccuguU.........................  16      1    seq
.......................................................................acguaugcuuacccuNucc........................  1       1    seq
.......................................................................acguaugcuuacccuguca........................  3       0    seq
.......................................................................acguaugcuuacccuguccU.......................  1       1    seq
.......................................................................acguaugcuAacccuguccau......................  1       1    seq
.......................................................................acguaugcuuacccuguccau......................  7       0    seq
.......................................................................acguaugcuuacccuguccaA......................  1       1    seq
.......................................................................acguaugcuuacccuguNaua......................  1       1    seq
.......................................................................acguaugcuuacccuguccaua.....................  4       0    seq
.......................................................................acguaugcuuacccuguccauU.....................  5       1    seq
.......................................................................acguaugcuuacccuguGauaa.....................  1       1    seq
.......................................................................acguaugcuuacccuguccauaa....................  1       0    seq
.......................................................................acguaugcuuacccuguccauaaU...................  3       1    seq
.....................................................................cccuguccauaaaacaucuguccug...................  1       0    seq
```

novel-mir-candidate-341

Provisional ID	:	chr19_41715
Score total	:	1.8
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	96
Mature read count	:	95
Loop read count	:	0
Star read count	:	1

Mature Star

```
5'- ccuugaggaaggucaggcaugaggaggaucugaaggauuggacucagguucgaaaccuccacuuccuccucaucucccuacccucucccacucagaccuggcgaaaggug  -3'    obs
    ccuugaggaaggucaggcaugaggaggaucugaaggauuggacucagguucgaaaccuccacuuccuccucaucuccuacccucucccacucagaccuggcgaaaggug         exp
    ..((((((((((((.(((.((((((((((..((.(((.((((((.....)))))..)))).)).)))))))))))..))))))))).)))..))))((((.......)))).   reads     mm        sample
    ..................caugaggaggaucugaaggauu.......................................................................   1         0         seq
    ..................augaggaggaCcugaagga..........................................................................   2         1         seq
    ..................uUaggaggaucugaaggau..........................................................................   1         1         seq
    ..................ugaggaggaucugaagAau..........................................................................   1         1         seq
    ..................ugaggaggaucugaaggau..........................................................................   61        0         seq
    ..................ugaggaggaucugaaggauu.........................................................................   5         0         seq
    ..................ugaggaggaucugaaggaCug........................................................................   1         1         seq
    ..................ugaggaggaucugaaggauug........................................................................   16        0         seq
    ..................ugaggaggaucugaaggauugA.......................................................................   4         1         seq
    ..................ugaggaggaucugaaggauugUa......................................................................   1         1         seq
    ..................ugaggaggaucugaaggauuggU......................................................................   1         1         seq
    ..................ugaggaggaucugaaggauugAa......................................................................   1         1         seq
    ...................................................aaaccuccacuuccuccucau.......................................   2         0         seq
    ...................................................aaaccuccacuuccuccucauA......................................   2         1         seq
    ...................................................aaaccuccacuuccuccucauU......................................   1         1         seq
    ...................................................aaaccuccacuuccuccucaucu.....................................   1         0         seq
    ...................................................aaccCccacuuccuccuc..........................................   1         1         seq
```

novel-mir-candidate-383

Provisional ID	:	chr5_14796
Score total	:	1.5
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.8
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	163
Mature read count	:	161
Loop read count	:	0
Star read count	:	2

Star Mature

```
5'- ucuaugagagugauccuuaugagcccuugggcaacagggguugaggugggggaggagauugacuguguuuuccucucauuccuuggcucagcuguuggcuccugggacccug  -3'   obs
    ucuaugagagugauccuuaugagcccuugggcaacagggguugaggugggggaggagauugacuguguuuuccucucauuccuuggcucagcuguuggcuccugggacccug        exp
    ..((((((.......))))))..(((..((((((((((((((((((..(((((((((.........)))))))))..)))))))))...)))))).))))..)))......  reads   mm   sample
    ..............ccuuaugagcccuugggc.......................................................................  1       0    seq
    ..............cuCaugagcccuugggca.......................................................................  1       1    seq
    ......................................guugaggugggggaggaga.............................................  2       0    seq
    ..................................................gagauugacuguguuuucc.................................  1       0    seq
    ..................................................gagauugacuguguuuuccucuc.............................  1       0    seq
    ..................................................agaAugacuguguuuucc..................................  1       1    seq
    ..................................................gauugacuguguuuuccucucauuccuuggcucag.................  1       0    seq
    ...........................................................cuguguuuuccucucauuccuuggcuca...................  1       0    seq
    ...........................................................cuguguuuuccucucauuccuuggcucag..................  1       0    seq
    ....................................................................uccucucauuccuuggcu.......................  5       0    seq
    ....................................................................uccucucauuccuuggcuA......................  1       1    seq
    ....................................................................uccucucauuccuuggcuAa.....................  1       1    seq
    ....................................................................uccucucauuccuuggcuca.....................  17      0    seq
    ....................................................................uccucucauuccuuggcucag....................  19      0    seq
    ....................................................................uccucucauuccuuggcucaU....................  3       1    seq
    ....................................................................uccucucauuccuuggcucagA...................  25      1    seq
    ....................................................................uccucucauuccuuggcucagU...................  90      1    seq
    ...........................................................................cucagcuAuuggcuccugggacc...  1       1    seq
    ...............................................................................Aagcuguuggcuccugggacccug  1       1    seq
```

novel-mir-candidate-97

Provisional ID	:	chr6_17404
Score total	:	47
Score for star read(s)	:	3.9
Score for read counts	:	40.4
Score for mfe	:	1.7
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	91
Mature read count	:	67
Loop read count	:	0
Star read count	:	24

Star **Mature**

```
5'- uguucuauauuuucaggaggcccagacacauaggaccacacugugguauguguaugaacuguuuuucacauugugguccuauaugucugguc auuaaugccaugcccuaaau  -3'   obs
    uguucuauauuuucaggaggccccagacacauaggaccacacugugguauguguaugaacuguuuuucacauugugguccuauaugucugguc auuaaugccaugcccuaaau        exp
    ................((.((((((((((.((((((((((.(((((...((......)).....)))))).))))))))))).)))))))).........)))...)).....   reads   mm   sample
    ....................gcccagacacauaggacc.......................................................................   1       0    seq
    ....................gcccagacacauaggacca......................................................................   3       0    seq
    ....................gcccagacacauaggaccaAa....................................................................   1       1    seq
    ....................gcccagacacauaggaccacacu..................................................................   2       0    seq
    ....................cccagacacauaggacca.......................................................................   1       0    seq
    ....................cccagacacauaggaccaca.....................................................................   2       0    seq
    ....................cccagacacauaggaccacacu...................................................................   9       0    seq
    ....................cccagacacauaggaccacacA...................................................................   1       1    seq
    ....................cccagacacauaggaccacacug..................................................................   1       0    seq
    ....................cccUgacacauaggaccacacug..................................................................   1       1    seq
    ....................cccagacacauaggaccacacugA.................................................................   1       1    seq
    ....................ccagacacauaggaccacacug...................................................................   1       0    seq
    ..........................................................ucacauugugguccuauaugucu.........................   1       0    seq
    ........................................................cauugugguccuauaugucugU.......................   1       1    seq
    ........................................................cauugugguccuauaugucuggu......................   2       0    seq
    .......................................................auugugguccuauaugucuggu A.....................   1       1    seq
    .......................................................uugugguccuauaugucuggu.......................   11      0    seq
    .......................................................uugugguccuauaugucuAgu.......................   1       1    seq
    .......................................................uugugguccuauaugucuNguc......................   1       1    seq
    .......................................................uugugguccuauaugucugguc......................   20      0    seq
    .......................................................uugugguccuauaugucuggu U.....................   1       1    seq
    .......................................................uugugguccuauaugucuggu A.....................   6       1    seq
    .......................................................uugugguccuauaugucuggu Aa....................   2       1    seq
    .......................................................uugugguccuauaugucuggu Ga....................   1       1    seq
    .......................................................uugugguccuauaugucuggu cU....................   3       1    seq
    .......................................................uugugguccuauaugucuggu ca....................   6       0    seq
    .......................................................uugugguccuauaugucuggu caA...................   1       1    seq
    .......................................................ugugguccuauaugucugguc.......................   3       0    seq
    .......................................................ugugguccuauaugucuggu cU.....................   2       1    seq
    .......................................................Aguggu ccuauaugucugguca.....................   1       1    seq
    .......................................................ugugguccuauaugucugguca......................   3       0    seq
    .......................................................ugugguccuauaugucuggucauu....................   1       0    seq
```

novel-mir-candidate-229

Provisional ID	:	chr8_20108
Score total	:	2.4
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.7
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	44
Mature read count	:	35
Loop read count	:	0
Star read count	:	9

Mature **Star**

```
5'- ccaggugguggcucagaugcagaggacauggaggcauccugaggugguggaugacaaggcguggagggaugcgaugcaccagaaugccuccauguccucugcaccugagccac  -3'   obs
    ccaggugguggcucagaugcagaggacauggaggcauccugaggugguggaugacaaggcguggagggaugcgaugcaccagaaugccuccauguccucugcaccugagccac        exp
    .......(((((((((.(((((((((((((((((((.((..((((.....((..((((......))))..))))))))).))))))))))))))))))).))))))))))   reads     mm      sample
    ................ugcUgaggacauggaggc.......................................................................   1         1       seq
    ...................agaggacauggaggcauc.....................................................................   2         0       seq
    ...................agaggacauggaggcauccu...................................................................   23        0       seq
    ...................agaggacauggaggcauccug..................................................................   1         0       seq
    ...................agaggacauggaggcauccugU.................................................................   1         1       seq
    ...................agaggacauggaggcauccuga.................................................................   2         0       seq
    ...................agaggacauggaggcauccugagU...............................................................   1         1       seq
    .......................acauggaggcauccugag...................................................................   2         0       seq
    .......................acauggaggcauccugagU..................................................................   1         1       seq
    .......................acauggaggcauccugaggu.................................................................   2         0       seq
    ......................................................................ccagaaugccuccauguccucu...............   1         0       seq
    ......................................................................agaaugccuccauguccucugU...............   5         1       seq
    ......................................................................agaaugccuccauguccucugA...............   3         1       seq
    ......................................................................agaaugccuccauguccucugAa..............   1         1       seq
```

novel-mir-candidate-205

Provisional ID	:	chr17_38304
Score total	:	5.2
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.9
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	32
Mature read count	:	32
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- cucucagugauccccucaacuucuuccuccagggagucucaggagucuccagggcuccucagccucaggguugccugggauaggaagugaggcggcucagcucccccauugu  -3'   exp
    .....(((((.(((((((.((((((..(((((((((.((.((((((((...)))))))).)).))).....)))))).)).))))))))))).)).)).)).)).....
    ..........................................................uugccugggauaggaaguAag.....................  1        1        seq
    ..........................................................uugccugggauaggaagugag.....................  7        0        seq
    ..........................................................uugccugggauaggaagugagU....................  1        1        seq
    ..........................................................uugccugggauaggaagugagA....................  4        1        seq
    ..........................................................uugccugggauaggaagugagg....................  4        0        seq
    ..........................................................uugccugggauaggaagugaggA...................  2        1        seq
    ..........................................................uugccugggauaggaagugaggU...................  1        1        seq
    ..........................................................ugccugggauaggaagugag......................  2        0        seq
    ..........................................................ugccugggauaggaagugagg.....................  8        0        seq
    ..........................................................ugccugggauaggaagugagA....................  1        1        seq
    ..........................................................ugccugggauaggaagugaggAg..................  1        1        seq
```

novel-mir-candidate-96

Provisional ID	:	chr17_37388
Score total	:	47.9
Score for star read(s)	:	3.9
Score for read counts	:	40.9
Score for mfe	:	2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	92
Mature read count	:	91
Loop read count	:	0
Star read count	:	1

Star **Mature**

```
5'- gcugaggucuuaagcuugugcgagugggagcaggauccagggcugcugcccgcaguggcuaacagugaugugggccagcuuuggaagccugcaccccuguauuuaaaucc  -3'   obs
    gcugaggucuuaagcuugugcgagugggagcaggauccagggcugcugcccgcaguggcuaacagugaugugggccagcuuuggaagccugcaccccuguauuuaaaucc        exp
    (((.........)))..((((.((.(((.(((((.(((((((((((...(((((((.(.(((...))).)))))))..))))))))))..)))))).))))))))).........  reads   mm   sample
    ................................auccagggcugcugcccgcU.......................................................  1       1    seq
    ......................................................uggggccagcuuuggaagcc....................  10      0    seq
    ......................................................uggggccagcuuuggaagcA....................  1       1    seq
    ......................................................uggggccagcuuuggaagccu...................  31      0    seq
    ......................................................uggggccagcuuuggaagccuA..................  2       1    seq
    ......................................................uggggccagcuuuggaagccug..................  5       0    seq
    ......................................................uggggccagcuuuggaagNcug..................  1       1    seq
    ......................................................uggggccagcuuuggaagccugc.................  11      0    seq
    ......................................................uggggccagcuuuggaagccugU.................  7       1    seq
    ......................................................uggggccagcuuuggaagccugca................  5       0    seq
    ......................................................uggggccagcuuuggaagccugcU................  17      1    seq
    ......................................................uggggccagcuuuggaagccugcaU...............  1       1    seq
```

novel-mir-candidate-107

Provisional ID	:	chr17_38510
Score total	:	42.9
Score for star read(s)	:	3.9
Score for read counts	:	35.8
Score for mfe	:	2.2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	82
Mature read count	:	64
Loop read count	:	0
Star read count	:	18

Star Mature

```
5'- ucacaggcuuuggcugguggcucacagggucaggggaugggagugacauggccuggggaugcccagggcucugaccacugcauccccuuccccaggaaccacuacaugcuc  -3'   obs
    ucacaggcuuuggcugguggcucacagggucaggggaugggagugacauggccuggggaugcccagggcucugaccacugcauccccuuccccaggaaccacuacaugcuc        exp
    .....(((..((..(((((((.((.(.(((..(((((((((..(((((.((.(.(((((((....)))))).)..)).)))).)))))))..)))).)))).)))))))).))).   reads   mm   sample
    ......................cacagggucaggggaugggagugacauggccuggggga.......................................................   1       0    seq
    ............................ucaggggaugggagugac.................................................................   1       0    seq
    ............................ucaggggaugggagugaca................................................................   4       0    seq
    ............................ucaggggaugggagugacauggc............................................................   7       0    seq
    ............................ucaggggaugggagugacauggcU...........................................................   2       1    seq
    ............................ucaggggaugggagugacauggcA...........................................................   2       1    seq
    ............................caggggaugggagugacauggccA...........................................................   2       1    seq
    ...............................................................ugcccagggcucugaccacugcauccccuucc...................   1       0    seq
    ..............................................................ugcccagggcucugaccacugcauccccuuccccag................   1       0    seq
    .............................................................cccagggcucugaccacugcauccccuuccccag...............   1       0    seq
    ...............................................................cucugaccacugcauccccuucA...................   1       1    seq
    ...............................................................cucugaccacugcauccccuucU...................   1       1    seq
    ...............................................................cucugaccacugcauccccuuccU..................   1       1    seq
    ...............................................................ucugaccacugcauccccu.......................   1       0    seq
    ...............................................................ucugaccacugcauccccuu......................   2       0    seq
    ...............................................................ucugaccacugcauccccuuc.....................   6       0    seq
    ...............................................................ucugaccacugcauccccuucU....................   21      1    seq
    ...............................................................Gcugaccacugcauccccuucc....................   1       1    seq
    ...............................................................ucugaccacugcauccccuucG....................   1       1    seq
    ...............................................................ucugaccacugcauccccuucc....................   15      0    seq
    ...............................................................ucugaccacugcauccccuuccA...................   1       1    seq
    ...............................................................ucugaccacugcauccccuuccc...................   5       0    seq
    ...............................................................ucugaccacugcauccccuuccU...................   2       1    seq
    ...............................................................ucugaccacugcauccccuucccU..................   3       1    seq
    ...............................................................ucugaccacugcauccccuucccc..................   1       0    seq
    ...............................................................ucugaccacugcauccccuucccAa.................   2       1    seq
```

novel-mir-candidate-307

Provisional ID	:	chr20_42163
Score total	:	1.9
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	173
Mature read count	:	172
Loop read count	:	0
Star read count	:	1

Star Mature

```
5'- gaagucagaggguagggaccuuugccugccccugggcgagugcgggcagggaucugagaccagauuguucucgcaccccugccagaacucacucucccccugaaguuuaggg  -3'   obs
    gaagucagaggguagggaccuuugccugccccugggcgagugcgggcagggaucugagaccagauuguucucgcaccccugccagaacucacucucccccugaaguuuaggg        exp
    .....(((.(((((((.......)))))))))).((.((((...(((((((...(((((.((...).)))))...)))))))...)))).))...((((((...))))))   reads   mm   sample
    ............................gccccugggcgagugcgggcagggaucugagac.............................................   1       0    seq
    ......................................ugcgggcagggaucugagacc.................................................   1       0    seq
    ......................................gcgggcagggaucugagaccagauuguucu........................................   1       0    seq
    ..............................................ccagauuguucucgcacGcc...............................   1       1    seq
    ..............................................agauuguucucgcaccccugccagaacuc.....................   1       0    seq
    ...........................................cucgcaccccugccagaacuca...................................   1       0    seq
    ...........................................ucgcaccccugccagaacuca....................................   19      0    seq
    ...........................................ucgcaccccugccagaacucG....................................   1       1    seq
    ...........................................ucgcaccccugccagaacucU....................................   1       1    seq
    ...........................................ucgcaccccugccagaacucaU...................................   2       1    seq
    ...........................................ucgcaccccugccagaacucac...................................   6       0    seq
    ...........................................ucgcaccccugccagaacGcacu..................................   1       1    seq
    ...........................................ucgcaccccugccagaacucaUu..................................   2       1    seq
    ...........................................ucgcaccccugccagaacucacA..................................   6       1    seq
    ...........................................ucgcaccccugccaUaacucacu..................................   1       1    seq
    ...........................................ucgcaccccugccagaacucacu..................................   130     0    seq
    ...........................................ucgcaccccugccagaacucacuAu................................   2       1    seq
    ...........................................cgcaccccugccagaacucacucuccccugaag.......................   1       0    seq
    ..............................................................cccugccagaacucacucuccccu...........   1       0    seq
```

novel-mir-candidate-318

Provisional ID	:	chr19_41348
Score total	:	1.8
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	20
Mature read count	:	19
Loop read count	:	0
Star read count	:	1

Star Mature

```
5'- agcagagaggcggggcccgaggggcucugcagugcgucagcacucugcccugacccagcauacccagaggucaaggucgagucugaugcagucaggagaagcgaggacccug  -3'   obs
    agcagagaggcggggcccgaggggcucugcagugcgucagcacucugcccugacccagcauacccagaggucaaggucgagucugaugcagucaggagaagcgaggacccug        exp
    .........(((((((((...)))))))))(.(((((((.((((.(((.((((((..........).)))))).))).)))))))))))).)((((............))))   reads    mm    sample
    .........gcggggcccgCggggcuc.......................................................................................   1        1     seq
    ...............................agugcgucagcacucugcccuga..............................................................   1        0     seq
    ...............................................................ucaaggucgagucugaugcag.....................   3        0     seq
    ...............................................................Acaaggucgagucugaugcagu....................   1        1     seq
    ...............................................................ucaaggucgagucugaugcagu....................   13       0     seq
    ...............................................................ucaaggucgagucugaugcaguU...................   1        1     seq
    ..................................................................ucgagucugaugcagucU.......................   1        1     seq
```

novel-mir-candidate-27

Provisional ID	:	chr16_35392
Score total	:	162.2
Score for star read(s)	:	3.9
Score for read counts	:	155.6
Score for mfe	:	1.6
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	317
Mature read count	:	246
Loop read count	:	0
Star read count	:	71

Star Mature

```
5'- caccuccugccaucagagccuccuuggcucugccccagggccacauagucacauagucacauagucacaugugucugugucugcccagccugcaguggaacuucaucca  -3'   obs
    caccuccugccaucagagccuccuuggcucugccccagggccacauagucacauagucacauagucacaugugucugugucugcccagccugcaguggaacuucaucca        exp
    ......((((...(((((((.....)))))))).....(((((.(((((((.(((.(((...)).)))))))).)))))))..)))).....))))((((......))))
```

reads	mm	sample
1	0	seq
1	1	seq
1	0	seq
10	0	seq
23	0	seq
1	1	seq
1	1	seq
26	0	seq
4	0	seq
1	1	seq
2	0	seq
1	1	seq
1	1	seq
8	0	seq
1	1	seq
2	1	seq
1	0	seq
1	0	seq
1	1	seq
1	1	seq
1	0	seq
43	1	seq
63	1	seq
1	1	seq
1	1	seq
4	0	seq
30	1	seq
7	1	seq
22	1	seq
4	1	seq
4	1	seq
50	1	seq

novel-mir-candidate-182

Provisional ID	:	chr12_28026
Score total	:	12.8
Score for star read(s)	:	3.9
Score for read counts	:	5.7
Score for mfe	:	2.2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	23
Mature read count	:	21
Loop read count	:	0
Star read count	:	2

```
                    Mature                    Star
5'- uggugagaaccguauccuggcacugucccuucucacccugagaaaagagaaaggcgcuuccagggugagagagggcaggagcuggGCUGGUCCGCAGAGGUGGAACCCAAGAG -3'   obs
    uggugagaaccguauccuggcacugucccuucucacccugagaaaagagaaaggcgcuuccagggugagagagggcaggagcuGGGCUGGUCCGCAGAGGUGGAACCCAAGAG        exp
    .(((....)))....((((((.(((.(((.(((((((((((((.............)))))))))))))..)))))))..)))))))).(((((((....)))))..)))....   reads     mm      sample
    ...........guauccuggcUcuguccc.......................................................................   1         1       seq
    ....................cacuguccccuucucacccuga...........................................................   14        0       seq
    ....................cacuguccccuucucaccAuga...........................................................   1         1       seq
    ....................cacuguccccuucucacccugaU..........................................................   1         1       seq
    ....................cacuguccccuucucacccugaA..........................................................   3         1       seq
    ....................cacuguccccuucucacccugaga.........................................................   2         0       seq
    ..........................................................cagggugagagagggcaggagU...............   1         1       seq
    ..........................................................cagggugagagagggcaggagcuU.............   1         1       seq
```

novel-mir-candidate-374

Provisional ID	:	chr9_22431
Score total	:	1.6
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.9
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	1035
Mature read count	:	1035
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- accuguggugaaggcuuugcucggcuccaccacuuccugggaggaccuugggcagguauaauaguucagccugucugagcgccgcucuccaucugucaaauggaca  -3'   exp
    ....((((((..((((.-----.))))-))))))....(((((((((..((((((((((.........)))))))))))..)).)))))))..((((.-----.))))   reads    mm    sample
    ...........................................................guucagccugucugagcgUcgcu...................   1        1     seq
    ...........................................................cagccugucugagcgUcgcu.....................   1        1     seq
    ...........................................................agccugucugagcgUcgc......................   2        1     seq
    ...........................................................Cgccugucugagcgccgc......................   2        1     seq
    ...........................................................agccugucugagcgAcgcu.....................   2        1     seq
    ...........................................................agccugucugagcgUcgcu.....................   858      1     seq
    ...........................................................Cgccugucugagcgccgcu.....................   73       1     seq
    ...........................................................gccugucugaAcgccgcu......................   1        1     seq
    ...........................................................gccuguAugagcgccgcu......................   2        1     seq
    ...........................................................gccugucugagcgGcgcu......................   27       1     seq
    ...........................................................gccugucugagcgccgcu......................   19       0     seq
    ...........................................................gccugucugagcgccgcuU.....................   2        1     seq
    ...........................................................gccugucugagcgUcgcuc.....................   4        1     seq
    ...........................................................gccugucugagcgUcgcucu....................   4        1     seq
    ...........................................................ccugucugagcgUcgcuc......................   16       1     seq
    ...........................................................ccugucugagcgccgcuA......................   1        1     seq
    ...........................................................ccugucugagcgccgcuU.....................   15       1     seq
    ...........................................................ccugucugagcgccgcuUu....................   1        1     seq
    ...........................................................ccugucugagcgUcgcucu....................   2        1     seq
    ...........................................................ccugucugagcgUcgcucucc..................   2        1     seq
    ...........................................................cugucugagcgUcgcucu.....................   1        1     seq
```

novel-mir-candidate-286

Provisional ID	:	chr6_17910
Score total	:	2
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.3
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	289
Mature read count	:	289
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- cggggugaccccuggagggaguggguuggggggagcccuuagcacacucagaagugaccucugggaaggagugcgaugaggggaguccugagcacgccccggggugaccucugg  -3'    exp
    .(((((.(((((....(((.(((.(((.((((...((((((((((.(((((.......))))))).....))))..)))))))...)))).)))).))))))))))).)))))...   reads     mm        sample
    ...........................................................................agugcgaugaggggaguccugagcac...................   1         0         seq
    ...........................................................................agugcgaugaggggaguccugagcCc...................   1         1         seq
    ...........................................................................agugcgaugaggggaguccugagcacg..................   3         0         seq
    ...........................................................................agugcgaugaggggaguccugagcacgccccgggguga.......   1         0         seq
    ...........................................................................agugcgaugaggggaguccugagcacgccccggggugaccucug.   2         0         seq
    ..........................................................................gugcgaugaggggaguccugagc.....................   101       0         seq
    ..........................................................................gugcgaugaggggaguccAgagc.....................   2         1         seq
    ..........................................................................gugcgaugaggggaguccuAagc.....................   1         1         seq
    ..........................................................................gugcgaugagggUaguccugagc.....................   1         1         seq
    ..........................................................................gugcgaugaggggaguccNgagc.....................   2         1         seq
    ..........................................................................gugcgaugaggggaguccugagcC....................   10        1         seq
    .........................................................................Uugcgaugaggggaguccugagca....................   1         1         seq
    ..........................................................................gugcgaugagggUaguccugagca....................   1         1         seq
    ..........................................................................gugcAaugaggggaguccugagca....................   1         1         seq
    ..........................................................................gugAgaugaggggaguccugagca....................   1         1         seq
    ..........................................................................gugcgaugaggggaguccNgagca....................   1         1         seq
    ..........................................................................gugcgaugaggggaguccugagca....................   150       0         seq
    ..........................................................................gugcgaugGggggaguccugagca....................   1         1         seq
    ..........................................................................gugcgaugaggggagCccugagca....................   1         1         seq
    ..........................................................................gugcgaugaggggaguccAgagca....................   2         1         seq
    ..........................................................................gugcgaugaggggaguccugagcac...................   2         0         seq
    ..........................................................................gugcgaugaggggaguccugagcaA...................   2         1         seq
    ..........................................................................gugcgaugaggggaguccugagcCcg..................   1         1         seq
    .........................................................................ugcgaugaggggaguccugagc......................   2         0         seq
    ........................................................................gcgaugaggggaguccugagca.......................   1         0         seq
```

novel-mir-candidate-401

Provisional ID	:	chr1_471
Score total	:	1.4
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.7
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	31
Mature read count	:	30
Loop read count	:	1
Star read count	:	0

Star Mature

```
5'- cucagccuggccaugccugggcauccccuugggccuaaccaggccagagcaucgugagcaauaggagcggugccugguucugguuugaccucccccagacuuugaggcucuuuu -3'   exp
    ((((((((((...))).))))).....((((((...(((((((.(((.(((((((...(....)..))))))))))).)))))))).......)))))))...))))........
```

reads	mm	sample
1	0	seq
1	0	seq
1	0	seq
6	0	seq
1	1	seq
3	1	seq
9	0	seq
4	1	seq
2	0	seq
1	1	seq
1	0	seq
2	0	seq

```
    ...............................................aucgugagcaauaggagcg.........................................
    ...............................................cgugagcaauaggagcggugccu.....................................
    ......................................................................ugccuguucugguuugaccu......................
    ......................................................................ugccuguucugguuugaccuc.....................
    ......................................................................Cgccuguucugguuugaccucc....................
    ......................................................................ugccuguucugguuugaccucU....................
    ......................................................................ugccuguucugguuugaccucc....................
    ......................................................................ugccuguucugguuugaccuccU...................
    ......................................................................ugccuguucugguuugaccuccc...................
    ......................................................................ugccuguucugguuugaccucccU..................
    ......................................................................ugccuguucugguuugaccucccccaga..............
    .......................................................................gccuguucugguuugaccucc....................
```

novel-mir-candidate-178

Provisional ID	:	chr1_707
Score total	:	15.7
Score for star read(s)	:	3.9
Score for read counts	:	8.8
Score for mfe	:	2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	29
Mature read count	:	26
Loop read count	:	0
Star read count	:	3

Star Mature

```
5'- gggcuugcagagagucaaggcaggugugauugcagcuggacaugggucugcacacucacguacacgauugcaaacccacugaccagcugccaagcugcccagcuguucugu  -3'    obs
    gggcuugcagagagucaaggcaggugugauugcagcuggacaugggucugcacacucacguacacgauugcaaacccacugaccagcugccaagcugcccagcuguucugu         exp
    ......(((((((((...(((((.(.((...((((((((.(((((((.((((...((.........)).)))).)))))).)).)))))))))).)))))..))).))))))   reads      mm         sample
    ...............................ugcagcuggacaugggucugca.......................................................   1          0          seq
    ...............................ugcagcuggacaugggucugcacU.....................................................   1          1          seq
    ................................cagcuggacaugggucugcaU......................................................   1          1          seq
    ......................................................................caaacccacugaccagcug......................   1          0          seq
    ......................................................................caaacccacugaccagcugcc....................   5          0          seq
    ......................................................................caaacccacugaccagcugcca...................   1          0          seq
    ......................................................................caaacccacugaccagcugccU...................   18         1          seq
    .......................................................................aaacccacugaccagcugccaaU................   1          1          seq
```

novel-mir-candidate-336

Provisional ID	:	chr19_40579
Score total	:	1.8
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	70
Mature read count	:	69
Loop read count	:	0
Star read count	:	1

Star Mature

```
5'- ggcaaggguggcgguuauaguuucacaacucaaccccagccagggccugggcuuguaaaauaccagauuuuacaagccucugagccccacaugccugggccuccccgaa  -3'   obs
    ggcaaggguggcgguuauaguuucacaacucaaccccagccagggccugggcuuguaaaauaccagauuuuacaagccucugagccccacaugccugggccuccccgaa        exp
    .....(((.(((((((((..((((....)))).))))))((.((((((((.(((((((((((.....)))))))))))))..).)))))...)).)))))))).)))...   reads   mm   sample
    ...............................................ccugggcuuUuaaaauac.............................................   1       1    seq
    ......................................................................auuuuacaagccucugagcccca....................   1       0    seq
    ......................................................................uuuuacaagccucugagcccca....................   1       0    seq
    ......................................................................uuuuacaagccucugagccccac...................   1       0    seq
    ......................................................................uuuacaagccucugagccc......................   4       0    seq
    ......................................................................uuuacaagccucugagccAc.....................   1       1    seq
    ......................................................................uuuacaagccucugagcccc.....................   3       0    seq
    ......................................................................uuuacaagccucugagcGcca....................   1       1    seq
    ......................................................................uuuacaagccucugagcccca....................   14      0    seq
    ......................................................................uuuacaagccucugagccccaA...................   4       1    seq
    ......................................................................uuuacaagccucugagccccac...................   1       0    seq
    ......................................................................uuuacaagccucugagccccaU...................   3       1    seq
    ......................................................................uuuacaagccucugagccccacU..................   7       1    seq
    ......................................................................uuuacaagccucugagccccacC..................   1       1    seq
    ......................................................................uuuacaagccucugagccccaAa..................   1       1    seq
    ......................................................................uuuacaagccucugagccccaca..................   3       0    seq
    ......................................................................uuuacaagccucugagccccacaA.................   2       1    seq
    ......................................................................uuacaagccucugagcccc......................   2       0    seq
    ......................................................................uuacaagccucugagcccca.....................   2       0    seq
    ......................................................................uuacaagccucugagccccaA....................   1       1    seq
    ......................................................................uuacaagccucugagccccaAa...................   3       1    seq
    ......................................................................uuacaagccucugagccccacU...................   4       1    seq
    ......................................................................uuacaagccucugagccccacCu..................   1       1    seq
    ......................................................................uuacaagccucugagccccacau..................   4       0    seq
    ......................................................................uuacaagccucugagccccacauU.................   4       1    seq
    .........................................................................cugagccccacaugccug.....................   1       0    seq
```

novel-mir-candidate-166

Provisional ID	:	chrX_45271
Score total	:	20.3
Score for star read(s)	:	3.9
Score for read counts	:	13.4
Score for mfe	:	2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	38
Mature read count	:	37
Loop read count	:	0
Star read count	:	1

Star Mature

```
5'- cuugaauccaagaaugagagaggacaaaucuggauguggggugggagggggcuuagaggucaucaacucccaagcucccccccgccccagagaaacacacagagcuguuccac  -3'   obs
    cuugaauccaagaaugagagaggacaaaucuggauguggggugggagggggcuuagaggucaucaacucccaagcucccccccgccccagagaaacacacagagcuguuccac        exp
    ((((....))))........(((((..((((..(((((((((.(((.(((((((.(((........)))).))))))))))).)))))......)))..))))..)))))...  reads   mm   sample
    .....auccaagaaugagagaggacaGa..............................................................................  1       1    seq
    ............................ucuggauguggggugggagggggcuuGgagguc..............................................  1       1    seq
    ................................auguggggugggagggggcu.......................................................  1       0    seq
    ..............................................................caagcucccccccgccccagag......................  1       0    seq
    ..............................................................caagcucccccccgccccagaga.....................  4       0    seq
    ..............................................................caagcucccccccgccccagagU.....................  1       1    seq
    ..............................................................aagcucccccccgccccag........................  1       0    seq
    ..............................................................aagcucccccccgccccagag......................  2       0    seq
    ..............................................................aagcucccccccgccccagagU.....................  3       1    seq
    ..............................................................aagcucccccccgccccagNga.....................  1       1    seq
    ..............................................................aagcucccccccgccccagaga.....................  11      0    seq
    ..............................................................aagcucccccccgccccagagaa....................  3       0    seq
    ..............................................................aagcucccccccgccccagagaU....................  5       1    seq
    ..............................................................aagcucccccccgccccagagaG....................  1       1    seq
    ..............................................................aagcucccccccgccccagagaaU...................  2       1    seq
    ..............................................................aagcucccccccgccccagagaaa...................  1       0    seq
    ..............................................................cucccccccgccccagaga........................  1       0    seq
```

novel-mir-candidate-211

Provisional ID	:	chr5_12785
Score total	:	4.9
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.6
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	295
Mature read count	:	295
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- ccuccuucucacccaccuuaguggaauuguagcaauuccagugccuggcaaguccuguucugagcuucauugcagcugccugggagugguugagagggcugggcaaca  -3'   exp
    ((.(((((((((((((....)))))))))(((...)))))))(.(.((.((((.(..((((..(((...)))..))))))))).)).).))).))))))))..)).....
```

reads	mm	sample
14	0	seq
1	1	seq
4	1	seq
2	1	seq
2	1	seq
2	1	seq
80	0	seq
1	1	seq
95	1	seq
2	1	seq
70	1	seq
7	1	seq
4	1	seq
1	1	seq
1	1	seq
4	0	seq
4	1	seq
1	1	seq

```
uugcagcugccugggagu
uugcagcugccugggagA
uugcagcugccugggaguA
uugcagcugccuUggagug
uugcGgcugccugggagug
uugcagcugccCgggagug
uugcagcugccugggagug
uugcagcugccugggaguAg
uugcagcugccugggagugU
uugcagcugccugggagugGC
uugcagcugccugggagugAu
uugcagcugccugggagugUu
uugcagcugccugggagugAuu
uugcagcugccugggagugUuu
uugcagcugccugggagugAuug
ugcagcugccugggagug
ugcagcugccugggagugU
ugcagcugccugggagugAu
```

novel-mir-candidate-172

Provisional ID	:	chr4_11414
Score total	:	18.4
Score for star read(s)	:	3.9
Score for read counts	:	11.3
Score for mfe	:	2.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	34
Mature read count	:	33
Loop read count	:	0
Star read count	:	1

Mature **Star**

```
5'- uggacucacuggaccagauccauccagcaucuggcaggacgugcuggggugguucgccaacacagccggacugcagaagcuggcggauauuguccagauuguguucaguguagacc  -3'   obs
    uggacucacuggaccagauccauccagcaucuggcaggacgugcuggggugguucgccaacacagccggacugcagaagcuggcggauauuguccagauuguguucaguguagacc         exp
    (((((.(((((((((...(((..(((((.((((.(((..((.((((((((....)))..).)))))).)))))))).))))).))))...))))))..)).)))))).........
    ....................auccagcaucugAcaggacg.....................................................................
    ....................auccagcaucugUcaggacg.....................................................................
    ....................auccagcaucuggcaggacg.....................................................................
    ....................auccagcaucuggcaggacgug...................................................................
    ....................auccagcaucuggcaggacguA...................................................................
    ....................auccagcaucuggcaggacguU...................................................................
    ....................auccagcaucuggcaggacgugc..................................................................
    ....................auccagcaucuggcaggacgugcu.................................................................
    ....................auccagcaucuggcaggaGgugcu.................................................................
    ....................auccagcaucuggcaggacgugcug................................................................
    ....................auccagcaucuggcaggacgugcuA................................................................
    ....................auccagcaucuggcaggacgugcugU...............................................................
    ......................uccagcaCcuggcaggac.....................................................................
    ......................uccagcaucuggcaggacgugc..................................................................
    ..........................................................aacacGgccggacugcagaagcuggcgg.....................
    ...........................................................acacagGcggacugcagaag...........................
    ..............................................................gccggacugcagaagcuggcgg.......................
```

reads	mm	sample
1	1	seq
1	1	seq
3	0	seq
1	0	seq
1	1	seq
1	1	seq
3	0	seq
15	0	seq
1	1	seq
2	0	seq
1	1	seq
1	1	seq
1	1	seq
1	0	seq
1	1	seq
1	1	seq
1	0	seq

novel-mir-candidate-420

Provisional ID	:	chr4_11768
Score total	:	1.3
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.6
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	133
Mature read count	:	133
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- cuggagcaaagaaaugcaaagaacgcugcccagcugccccacagccccaaagacuugguugugaugagcucuggauggcagcugggaacgucuucuuuuaaugagggcu  -3'   exp
    .....(((......)))...........(((((((((((((.(((((((((....))))).)....).))).))))..)))))))))))...((((((.......)))))).
    ..........................................................cucuggauggcagcugggaaU.....................
    ..........................................................ucuggauggcagcuggga........................
    ..........................................................ucuggauggcagcugggaa.......................
    ..........................................................ucuggauggcagcugggaU.......................
    ..........................................................ucuggauggcagcugggaaA......................
    ..........................................................ucuggauggcagcugggaac......................
    ..........................................................ucuggauggcagcugggaaU......................
    ..........................................................ucuggauggcagcugggaacg.....................
    ..........................................................ucuggauggcagcugggaacU.....................
    ..........................................................ucuggauggcagcugggaacgu....................
    ..........................................................ucuggauggcagcugggaacguA...................
    ..........................................................ucuggauggcagcugggaacguU...................
    ..........................................................ucuggauggcagcugggaacguc...................
    ..........................................................ucuggauggcagcugggaacgucu..................
    ..........................................................ucuggauggcagcugggaacguUu.................
    ..........................................................ucuggauggcagcugggaacguAu.................
    ..........................................................ucuggauggcagcugggaacgucA..................
    ..........................................................ucuggauggcagcugggaacgucuucuuuu...........
    ..........................................................ucuggauggcagcugggaaAgucuucuuuu...........
    ..........................................................cuggauggcagcugggaacgucu...................
```

reads	mm	sample
2	1	seq
5	0	seq
15	0	seq
3	1	seq
17	1	seq
12	0	seq
22	1	seq
8	0	seq
2	1	seq
11	0	seq
4	1	seq
1	1	seq
11	0	seq
11	0	seq
2	1	seq
4	1	seq
2	1	seq
1	0	seq
1	1	seq
1	0	seq

novel-mir-candidate-24

Provisional ID	:	chr2_6558
Score total	:	184.6
Score for star read(s)	:	3.9
Score for read counts	:	182.1
Score for mfe	:	1.3
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	369
Mature read count	:	356
Loop read count	:	0
Star read count	:	13

Mature **Star**

```
5'- uugagagaaggagaggaagauacagcagacauaggacugagccaaggaagagucugccugagagagacgcuuggccugugcuuugcugccaucCgugcggccuuggccacau  -3'   obs
    uugagagaaggagaggaagauacagcagacauaggacugagccaaggaagagucugccugagagagacgcuuggccugugcuuugcugccauccgugcggccuuggccacau        exp
    .........(((..((......(((((((((((((.(((((((.........((((.........)))))))))))))))).)))))))))).)))((((.(((....))).))))   reads   mm   sample
    ................aagauacagcagacauaggacu.......................................................................   1       0    seq
    ................aagauacagcagacauaggacug......................................................................   3       0    seq
    ................aagauacagcagacauaggacuga.....................................................................   1       0    seq
    ................agauacagcagacauaggNcuga......................................................................   1       1    seq
    ................agauacagcagacauaggacuga......................................................................   2       0    seq
    ................agauacagcagacauaggacugagc....................................................................   2       0    seq
    ................gauacagcagacauaggacugagc.....................................................................   1       0    seq
    ................auacagcagacauaggacuga........................................................................   6       0    seq
    ................auacagcagacauaggacugU........................................................................   1       1    seq
    ................auacagcagacauaggacugUgc......................................................................   1       1    seq
    ................auacagcagacauaggacugagc......................................................................   65      0    seq
    ................auacagcagacauaggacugagU......................................................................   1       1    seq
    ................auacagcagacauaggacGgagc......................................................................   1       1    seq
    ................Cuacagcagacauaggacugagcc.....................................................................   1       1    seq
    ................auacagcagacauaggacCgagcc.....................................................................   1       1    seq
    ................auacagcagacauaggacugagcA.....................................................................   1       1    seq
    ................auacagcagacauaggacugagcc.....................................................................   26      0    seq
    ................auacagcagacauaggacugagcca....................................................................   10      0    seq
    ................auacagcagacauaggacugagccC....................................................................   1       1    seq
    ................auacagcagacauaggacugagccU....................................................................   3       1    seq
    ................auacagcagacauaggacugagccUa...................................................................   3       1    seq
    ................auacagcagacauaggacugagccaU...................................................................   2       1    seq
    ................auacagcagacauaggacugagccaag..................................................................   1       0    seq
    ................auacagcagacauaggacugagccaagU.................................................................   3       1    seq
    ................auacagcagacauaggacugagccaagg.................................................................   2       0    seq
    ................auacagcagacauaggacugagccaaggU................................................................   1       1    seq
    ................uacagcagacauaggacug..........................................................................   1       0    seq
    ................uacagcagacauaggacuga.........................................................................   6       0    seq
    ................uacagcagacauaggacugag........................................................................   1       0    seq
    ................uacagcagacauaggacuAagc.......................................................................   2       1    seq
    ................uacagcagacauaggacugagc.......................................................................   84      0    seq
    ................uacagcagacauaggacugagA.......................................................................   1       1    seq
    ................uacagcagacauaggacugagU.......................................................................   1       1    seq
```

Mature **Star**

```
uugagagaaggagaggaagauacagcagacauaggacugagccaaggaagagucugccugagagagacgcuuggccugugcuuugcugccauccgugcggccuuggccacau
.....................uacagcagacauaggacugagcU.......................................   2       1    seq
.....................uacagcagacauaggacugagcc.......................................   35      0    seq
.....................uacagcagacauaggacugagcA.......................................   1       1    seq
.....................uacagcagacauaggacugagccU......................................   5       1    seq
.....................uacagcagacauaggacugagcca......................................   49      0    seq
.....................uacagcagacauaggacugagccC......................................   2       1    seq
.....................uacagcagacauaggacugagccCa.....................................   1       1    seq
.....................uacagcagacauaggacugagccaU.....................................   1       1    seq
.....................uacagcagacauaggacugagccaaU....................................   2       1    seq
.....................uacagcagacauaggacugagccaag....................................   1       0    seq
.....................uacagcagacauaggacugagccaagU...................................   1       1    seq
.....................uacagcagacauaggacugagccaagg...................................   9       0    seq
.....................uacagcagacauaggacugagccaaAg...................................   1       1    seq
.....................uacagcagacauaggacugagccCagg...................................   4       1    seq
.....................uacagcagacauaggacugagccaagga..................................   2       0    seq
.....................uacagcagacauaggacugagccaCgga..................................   1       1    seq
.....................uacagcagacauaggacugagccaaggU..................................   1       1    seq
.....................acagcagacauaggacugagc........................................   2       0    seq
.....................acagcagacauaggacugagcc.......................................   3       0    seq
.....................acagcagacauaggacugagcca......................................   6       0    seq
.....................acagcagacauaggacugagccU......................................   1       1    seq
.....................Ccagcagacauaggacugagcca......................................   1       1    seq
.....................acagcagacauaggacugagccaC.....................................   1       1    seq
.....................acagcagacauaggacugagccaagg...................................   1       0    seq
.....................acagcagacauaggacugagccaagga..................................   1       0    seq
.........................cagacauaggacugagccaagg....................................   1       0    seq
...........................agacauaggacugagccaagga.................................   1       0    seq
............................cauaggacugagccaaggaagagA..............................   1       1    seq
............................cauaggacugagccaaggaagagu..............................   1       0    seq
............................cauaggacugagccaaggaagagaguU...........................   1       1    seq
...............................acugagccaaggaagagucugccu...........................   1       0    seq
.......................................................gacgcuuggccugugcuuugU.......   1       1    seq
.......................................................gacgcuuggccugugcuuugcu......   1       0    seq
.......................................................gacgcuuggccugugcuuugcugU....   1       1    seq
.......................................................gacgcuuggccugugcuuugcugc....   1       0    seq
.......................................................gacgcuuggccugugcuuugcugcc...   2       0    seq
.......................................................gacgcuuggccugugcuuugcugccU..   2       1    seq
.......................................................acgcuuggccugugcuuug.........   1       0    seq
.......................................................acgcuuggccugugcuuugcugc.....   1       0    seq
.......................................................cgcuuggccugugcuuugcugcc.....   2       0    seq
.......................................................cgcuuggccugugcuuugcugccC....   1       1    seq
.......................................................cgcuuggccugugcuuugcugcca....   3       0    seq
.......................................................cgcuuggccugugcuuugcugccauU..   1       1    seq
.......................................................gcuGggccugugcuuugc..........   1       1    seq
.......................................................uuggccugugcuuugcugccau......   1       0    seq
.......................................................uuggccugugcuuugcugccauA.....   5       1    seq
.......................................................uuggccugugcuuugcugccauc.....   1       0    seq
.......................................................uuggccugugcuuugcugccauU.....   4       1    seq
.......................................................uuggccugugcuuugcugccaucU....   1       1    seq
```

novel-mir-candidate-423

Provisional ID	:	chr6_16365
Score total	:	1.2
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.5
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	46
Mature read count	:	46
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- cucaaaaaaacaaauaaaauaaaauaaaggcccgggcagcucuaguagccacagccauccccuagagggaucuggcugaggaggaaguggaggugguugcuugccuuggcc  -3'   exp
    ............................(((((.(((((((((((.(..((.((((((((((.....))))..)))))))..))....).)))))).......)))))).))))   reads    mm    sample
    ...............................................................gggaucuggcugaggaggaag.......................   1        0     seq
    ................................................................ggaucuggcugaggaggaag......................   1        0     seq
    ..............................................................gaucuggcugaggaggaag........................   2        0     seq
    ..............................................................gaucuggcugaggaggaagug......................   1        0     seq
    ................................................................aucuggcugaggaggaag.......................   6        0     seq
    ...............................................................aucuggcugaggaggaaguggag..................   2        0     seq
    ...............................................................aucuggcugaggaggaaguggagg.................   1        0     seq
    ................................................................ucuggcugaggaggaagu.......................   1        0     seq
    ...............................................................ucuggcugaggaggaaguggU....................   3        1     seq
    ...............................................................ucuggcugaggaggaaguggaU...................   4        1     seq
    ................................................................uAuggcugaggaggaaguggag...................   1        1     seq
    ...............................................................ucuggcugaggaggaaguggag...................   3        0     seq
    ...............................................................ucuggcugaggaggaaguggaC...................   1        1     seq
    ...............................................................ucuggcugaggaggaaguggagA..................   9        1     seq
    ...............................................................ucuggcugaggaggaaguggagC..................   1        1     seq
    ...............................................................ucuggcugaggaggaaguggagU..................   8        1     seq
    ................................................................cuggcugaggaggaagug.......................   1        0     seq
    ...............................................................cuggcugaggaggaaguggag....................   1        0     seq
    ...............................................................uggcugaggaggaaguggagg....................   1        0     seq
```

novel-mir-candidate-405

Provisional ID	:	chr18_38974
Score total	:	1.3
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.6
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	32
Mature read count	:	32
Loop read count	:	0
Star read count	:	0

Mature Star

```
5'- aagagaagagggagcugggggaccaugcaaacaagccuggacaccuuuauaauuuucuuuggcucagcauggcaccccaagcuccuuagaucugaccuuugccuuuucu  -3'   exp
    .(((((((((((((((((..((((((.....(((((((((.................)))))))))..))))))..))))).)))))))))..................)))))))   reads    mm    sample
    ....................accaugcaaacaagccug.......................................................................   30       0     seq
    ....................accGugcaaacaagccug.......................................................................   1        1     seq
    ....................acGaugcaaacaagccug.......................................................................   1        1     seq
```

novel-mir-candidate-80

Provisional ID	:	chrX_46164
Score total	:	56.7
Score for star read(s)	:	3.9
Score for read counts	:	70.5
Score for mfe	:	-14.8
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	150
Mature read count	:	149
Loop read count	:	0
Star read count	:	1

Star **Mature**

```
5'- caagaaugaaugauucuccaguguggcugcuccugaaaggaacaaugagacuuuguuauuucaccacaagacugagaaagaaauaaacaagugauaaaugcccagac -3'   obs
    caagaaugaaugauucuccaguguggcugcuccugaaaggaacaaugagacuuuguuauuucaccacaagacugagaaagaaauaaacaagugauaaaugcccagac        exp
    .............(((((.(((((((.......(((((..(((((........)))))..)))))))))...)))))))).............................   reads   mm   sample
    ........aaugauucuccagugGggc.......................................................................................   1       1    seq
    .............uuUuccaguguggcugcucc.................................................................................   1       1    seq
    ...............................................................acAacaagacugagaaag...........................   23      1    seq
    ...............................................................acAacaagacugagaaaga..........................   34      1    seq
    ...............................................................acAacaagacugagaaagaa.........................   2       1    seq
    ...............................................................acAacaagacugagaaagaaa........................   2       1    seq
    ...............................................................acAacaagacugagaaagaaau.......................   8       1    seq
    ...............................................................acAacaagacugagaaagaaaua......................   1       1    seq
    ...............................................................cAacaagacugagaaaga...........................   4       1    seq
    ...............................................................cAacaagacugagaaagaa..........................   4       1    seq
    ...............................................................cAacaagacugagaaagaaa.........................   2       1    seq
    ...............................................................cAacaagacugagaaagaaau.......................   2       1    seq
    ...............................................................cAacaagacugagaaagaaaua......................   2       1    seq
    ................................................................Aacaagacugagaaagaa..........................   7       1    seq
    ................................................................Aacaagacugagaaagaaa.........................   3       1    seq
    ................................................................Aacaagacugagaaagaaau.......................   2       1    seq
    ................................................................acaagacugagaaagaaa.........................   2       0    seq
    ................................................................acaagacugagaaagaaU........................   1       1    seq
    ................................................................acaagacugagaaagaaau.......................   1       0    seq
    ................................................................acaagacugagaaagaaauaC.....................   2       1    seq
    ...............................................................caagacugagaaagaaauaC......................   1       1    seq
    ...............................................................aagacugagaaagaaaua........................   2       0    seq
    ...............................................................aagacugagaaagaaauaC......................   22      1    seq
    ...............................................................aagacugagaaagaaauaC......................   1       1    seq
    ...............................................................agacugagaaagaaauaC.......................   22      1    seq
```

novel-mir-candidate-136

Provisional ID	:	chr19_40888
Score total	:	30.6
Score for star read(s)	:	3.9
Score for read counts	:	23.1
Score for mfe	:	2.7
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	57
Mature read count	:	28
Loop read count	:	0
Star read count	:	29

Star Mature

```
5'- gggugggcgggcagggccgcagggaccucugggcuucguaguccccuccgccguuugcagccggcaggugggcaagcggcuuggacuacaaguucccagggugccccgcgccga  -3'   obs
    gggugggcgggcagggccgcagggaccucugggcuucguaguccccuccgccguuugcagccggcaggugggcaagcggcuuggacuacaaguucccagggugccccgcgccga        exp
    ((((((((((......))))).((.(((.((((((((.(((((((....(((((((((.(((....))).)))))))))..))))))))))..))))))))).))))))..))..
    ....................................ucguaguccccuccgccguu.....................................................  1        0        seq
    ....................................ucguaguccccuccgccguuug....................................................  4        0        seq
    ....................................ucguaguccccuccgccguuugA...................................................  2        1        seq
    ....................................ucguaguccccuccgccguuugc...................................................  5        0        seq
    ....................................ucguaguccccuccgccguuugca..................................................  14       0        seq
    ....................................ucguaguccccuccgccguuugcag.................................................  2        0        seq
    ....................................ucguaguccccuccgccguuugcagU................................................  1        1        seq
    ............................................................cAgcagguggcaagcggc...............................  1        1        seq
    ...................................................................caagcggcuuggacuacaag......................  1        0        seq
    ....................................................................caagcggcuuggacuacaagu.....................  25       0        seq
    .....................................................................caagcggcuuggacuacaaguA...................  2        1        seq
```

novel-mir-candidate-427

Provisional ID	:	chr7_19024
Score total	:	1.1
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.4
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	21
Mature read count	:	21
Loop read count	:	0
Star read count	:	0

Mature **Star**

```
5'- acucaaaggaugagucaagaaaccgcugcagaguuggagacagaacuggagugaaauugcaaagcagggugguuuuggucucugcagaggccauuugcgacucacucaccaac  -3'   exp
    ........(((((((..(((.((.(((((((.(.(((((....(((...((......))...)))....)))))).).)))))))).))...)))..)))))).)).....
    ............agucaagaaaccgcugcagaguu.......................................................................
    ..................Naaccgcugcagaguuggagacag.................................................................
    ..................aaaccgcugcagaguuggagacag.................................................................
    ....................aaccgcugcagaguuggaga...................................................................
    ....................aaccgcugcagaguuggagacag................................................................
    ....................aaccgcugcagaguuggagacaga...............................................................
    .....................accgcugcagaguuggagacag................................................................
    .....................accgcugcagaguuggagacagU...............................................................
```

reads	mm	sample
1	0	seq
1	1	seq
1	0	seq
1	0	seq
14	0	seq
1	0	seq
2	0	seq
1	1	seq

novel-mir-candidate-64

Provisional ID	:	chr20_42737
Score total	:	66.1
Score for star read(s)	:	3.9
Score for read counts	:	59.3
Score for mfe	:	2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	128
Mature read count	:	120
Loop read count	:	1
Star read count	:	7

Mature Star

```
5'- acugcucgcuggcucacauucuguccugggacgcuuggugucccugauugauuuugagacaucagcucccccaagggcagggauaugggccuguuuccucagugccuggaauggu  -3'   obs
    acugcucgcuggcucacauucuguccugggacgcuuggugucccugauugauuuugagacaucagcucccccaagggcagggauaugggccuguuuccucagugccuggaauggu        exp
    ((((...((.(((((((.(((((((((((((((.(((.((((((.(((......))).)))))))))))))..)))))))).))))).)))))))).))).....))))))(.....)))  reads   mm   sample
    ..................ucuguccugggacgcuuggu.....................................................................  5       0    seq
    ..................Ccuguccugggacgcuuggug....................................................................  1       1    seq
    ..................ucuguccugggacgcuugguA....................................................................  2       1    seq
    ..................ucuguccugggacgcuugguU....................................................................  3       1    seq
    ..................ucuguccugggacgcuuggug....................................................................  25      0    seq
    ..................ucuguccugggacgcuuggugu...................................................................  9       0    seq
    ..................ucuguccugggacgcuuggugA...................................................................  5       1    seq
    ..................ucuguUcugggacgcuuggugu...................................................................  1       1    seq
    ..................ucuguccugggacgcuuguguU...................................................................  4       1    seq
    ..................ucuguccugggacgcuuguguc...................................................................  17      0    seq
    ..................Gcuguccugggacgcuuguguc...................................................................  1       1    seq
    ..................ucuguccugggacgcuuguguA...................................................................  1       1    seq
    ..................ucuguccugggacgcuuguguU...................................................................  35      1    seq
    ..................ucuguccugggacgcuuguguA...................................................................  7       1    seq
    ..................ucuguccugggacgcuuguguc...................................................................  3       0    seq
    ..................cuguccugggacgcuuguguU....................................................................  1       1    seq
    ........................................Acugauugauuuugagaca...................................................  1       1    seq
    ..........................................................caucagcucccccaagggcagg...............................  2       0    seq
    ..........................................................caucagcucccccaagggcaggga.............................  2       0    seq
    ..........................................................caucagcucccccaagggcagggau............................  1       0    seq
    ..........................................................caucagcucccccaagggcagggaC............................  1       1    seq
    ..........................................................ucagcucccccaagggcagggau..............................  1       0    seq
```

novel-mir-candidate-173

Provisional ID	:	chrX_44495
Score total	:	18.2
Score for star read(s)	:	3.9
Score for read counts	:	14.9
Score for mfe	:	2.2
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	41
Mature read count	:	34
Loop read count	:	0
Star read count	:	7

Star Mature

```
5'- cagacacugagaccggugcucugugugcucagccuucagccugcacuggcuuggugggcuuggugacccgccagcagggugugcugucugugggcucugcucaagcuccuc  -3'   obs
    cagacacugagaccggugcucugugugcucagccuucagccugcacuggcuuggugggcuuggugacccgccagcagggugugcugucugugggcucugcucaagcuccuc        exp
    (((((((((....)))))).)))))((.((..(((((.(((.(.(((((((.((((.((((..((....)))))).))))).)))))).).)))).)))))..)).)).......  reads   mm   sample
    .........agaccggugcucugugugcuc.......................................................................................  1       0    seq
    ......................................agccugcacuggcuuggugggc.........................................................  4       0    seq
    ......................................agccugcacuggcuuggugggcuC.......................................................  1       1    seq
    ......................................agccugcacuggcuuggugggcuu.......................................................  2       0    seq
    ...................................................uggcuuggugacccgccagcagggugugg.....................................  1       0    seq
    ......................................................cgccagcagggugugcugucugugggcucugcu..........................  1       0    seq
    ...........................................................ccagcagggugugcugucu.......................................  1       0    seq
    ............................................................ccagcagggugugcugucugu....................................  4       0    seq
    ......................................................ccagcagggugugcugucuAu....................................  1       1    seq
    ............................................................cagcagggugugcugucugu....................................  24      0    seq
    ...........................................................Aagcagggugugcugucugu....................................  1       1    seq
    ......................................................cagcagggugugcugucuguA....................................  2       1    seq
    ............................................................cagcagggugugcugucuguU....................................  1       1    seq
```

novel-mir-candidate-372

Provisional ID	:	chr4_11525
Score total	:	1.6
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.9
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	19
Mature read count	:	18
Loop read count	:	1
Star read count	:	0

Star Mature

```
5'- caaacuagaugagcacagcaaugccaagcaucccugugGcagucuguuggagaggcagagcugcugcaggacuggaugucgggcugcaugugaauguuugugggugca  -3'   exp
    ((..(((((((..(((((((..(((..(((((((((((((((((((.....)))))))-)))))))))....)))))))..)))))))-))))..)))))))-)..))..   reads    mm    sample
    ...................................................Acagagcugcugcaggacu.................................   1        1     seq
    ......................................................................acuggaugucgggcugca...................   14       0     seq
    ......................................................................acuggaugucgggcugcau..................   2        0     seq
    ......................................................................acuggaugucgggcugcaA..................   1        1     seq
    ......................................................................acuggaugucgggcugcauU.................   1        1     seq
```

novel-mir-candidate-73

Provisional ID	:	chr7_19092
Score total	:	62.7
Score for star read(s)	:	3.9
Score for read counts	:	55.7
Score for mfe	:	2.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	121
Mature read count	:	102
Loop read count	:	0
Star read count	:	19

```
                                   Star                      Mature
5'- ggugucuuuccugccugagcugaccugggcaggucggcguguggggucccuguggugugugggggagcugucacauccagggucccucacugccuguccccuucccuccucagauca  -3'   obs
    ggugucuuuccugccugagcugaccugggcaggucggcguguggggucccuguggugugugggggagcugucacauccagggucccucacugccuguccccuucccuccucagauca        exp
    ((((.......))))(((.((((...(((.(((.((((.(((((((((((.(((((((((....))).)))))))))))).)))))).))))).)))...)))).))).))))...))))).)))   reads   mm   sample
    ....ucuuuccugccugagcugacc.....................................................................................   1       0    seq
    ......uuuccugccugagcugacc.....................................................................................   3       0    seq
    .......uuccuCccugagcugacc.....................................................................................   1       1    seq
    ................................ucggcguguggggucccuguguA.......................................................   1       1    seq
    ................................ucggcguguggggucccuguguug......................................................   1       0    seq
    ................................ucggcguguggggucccuguguguguA...................................................   1       1    seq
    ................................ucggcguguggggucccuguguguguA...................................................   1       1    seq
    ................................ucggcguguggggucccuguguguu.....................................................   7       0    seq
    ................................ucggcguguggggucccuguguguuA....................................................   2       1    seq
    ................................ucggcguguggggucccuguguguuUu...................................................   2       1    seq
    ................................ucggcguguggggucccuguguguguu...................................................   1       0    seq
    ...................................cggcguguggggucccuguguguug...................................................   2       0    seq
    ...................................cggcguguggggucccuguguguguu..................................................   1       0    seq
    ........................................guccuguguguguguggAagcugucacauccagggucccucacug.........................   1       1    seq
    ..................................................................cacauccagggucccucacugccuguc..................   1       0    seq
    ..................................................................cauccagggucccucacugA........................   1       1    seq
    ..................................................................cauccagggucccucacugcc.......................   1       0    seq
    ..................................................................cauccagggucccucacugccA......................   1       1    seq
    ..................................................................cauccagggucccucacugccu......................   1       0    seq
    ..................................................................cauccagggucccucacugccug.....................   7       0    seq
    ..................................................................cauccagggucccucacugccuUu....................   4       1    seq
    ..................................................................cauccagggucccucacugccugu....................   40      0    seq
    ..................................................................cauccagggucccucacugAcugu....................   1       1    seq
    ..................................................................cauccagggucccucacugccuguU...................   9       1    seq
    ..................................................................cauccagggucccucacugccuguc....................   2       0    seq
    ..................................................................cauccagggucccucacugccuguA...................   10      1    seq
    ...................................................................auccagggucccucacugccugu....................   1       0    seq
    ...................................................................auccagggucccucacugccuguU...................   1       1    seq
    ...................................................................auccagggucccucacugccuguccccuucccuccucag....   1       0    seq
    ....................................................................uccagggucccucacugccug.....................   3       0    seq
    ....................................................................uccagggucccucacugccugu....................   3       0    seq
    ....................................................................uccagggucccucacugccuguA...................   3       1    seq
    ....................................................................uccagggucccucacugccuguU...................   5       1    seq
```

```
                                   Star                      Mature
ggugucuuuccugccugagcugaccugggcaggucggcguguggggucccuguggugugugggggagcugucacauccagggucccucacugccuguccccuucccuccucagauca
.................................................................uccagggucccucacugccuguc...................   4       0    seq
.................................................................uccagggucccucacugccuguU...................   3       1    seq
.................................................................uccagggucccucacugccuguA...................   1       1    seq
...................................................................uccucacugccuguccccuucccuccuca.....   1       0    seq
...................................................................ucacugccuguccccuucccuccuca.....   1       0    seq
.......................................................................uguccccuucccuccucag....   1       0    seq
.......................................................................guccccuucccuccucag....   1       0    seq
```

novel-mir-candidate-76

Provisional ID	:	chr17_36800
Score total	:	61.3
Score for star read(s)	:	3.9
Score for read counts	:	50.6
Score for mfe	:	2.2
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	111
Mature read count	:	101
Loop read count	:	0
Star read count	:	10

Mature Star

```
5'- cauacguguacaaguaugccCGUGCCUGUCCCCUCCUCUCUaaggacccaggagaagagggccaggcaccagcuucuuccaggaggaagguuaaaucuucuuccuggccucu  -3'   obs
    cauacguguacaaguaugccCGUGCCUGUCCCCUCCUCUCUaaggacccaggagaagagggccaggcaccagcuucuuccaggaggaagguuaaaucuucuuccuggccucu        exp
    (((((........)))))...(((((((..(((((.(((((........)))))).)))))).))))))).........((((((((((((...))))))))))))).....  reads   mm   sample
    ..................cccgugccugucccccucu..................................................................  2       0    seq
    ..................cccgugccugucccccuccuc................................................................  3       0    seq
    ..................cccgugccugucccccuccuA................................................................  1       1    seq
    ..................cccgugccugucccccuccNcu...............................................................  1       1    seq
    ..................cccgugccugucccccuccAcu...............................................................  1       1    seq
    ..................cccgugccugucccccuccucu...............................................................  15      0    seq
    ..................cccgugccugucccccuccucuc..............................................................  1       0    seq
    ..................cccgugccugucccccuccucuUu.............................................................  1       1    seq
    ..................cccgugccugucccccuccucucu.............................................................  15      0    seq
    ..................cccgugccugucccccuccucuAu.............................................................  1       1    seq
    ..................cccgugccugucccccuccucucA.............................................................  2       1    seq
    ..................cccgugccugucccccuccucucua............................................................  2       0    seq
    ...................ccgugccugucccccucu..................................................................  1       0    seq
    ...................ccgugccugucccccuccucu...............................................................  2       0    seq
    ...................ccgugccugucccccuccucucu.............................................................  16      0    seq
    ....................cgugccugucccccuccucuc..............................................................  1       0    seq
    ....................cgugccugucccccuccucucG.............................................................  1       1    seq
    ....................cgugccugucccccuccucucu.............................................................  23      0    seq
    ....................cgugccugucccccuccucNcu.............................................................  1       1    seq
    ....................cgugccugucccccuccucucU.............................................................  4       1    seq
    ....................cgugccugucccccuccucucua............................................................  1       0    seq
    ....................cgugccugucccccuccucucuaa...........................................................  1       0    seq
    ....................cgugccugucccccuccucucuaU...........................................................  1       1    seq
    ....................cgugccugucccccuccucucuaC...........................................................  1       1    seq
    ....................cgugccugucccccuccucucuaaA..........................................................  1       1    seq
    .....................gugccugucccccuccucucuaU...........................................................  1       1    seq
    ......................ugccugucccccuccucucuaa...........................................................  1       0    seq
    ..............................................gagaagagggccaggcacca.....................................  1       0    seq
    ...............................................agaagagggccaggcacca.....................................  1       0    seq
    ..............................................agaagagggccaggcaccagA....................................  2       1    seq
    ..............................................agaagagggccaggcaccagU....................................  5       1    seq
    ...............................................gagggccaggGaccagcu......................................  1       1    seq
```

novel-mir-candidate-22

Provisional ID	:	chr17_37255
Score total	:	208.4
Score for star read(s)	:	3.9
Score for read counts	:	201.5
Score for mfe	:	2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	407
Mature read count	:	392
Loop read count	:	1
Star read count	:	14

```
                                 Star                      Mature
5'- cuacuuugggugcgggcuggcccaugggccgcagaguugcugccgcugcuguccucacacccgcucgugggaagcagcgccugucgcaacucgccacuuguucuccucacagca  -3'    obs
    cuacuuugggugcgggcuggcccaugggccgcagaguugcugccgcugcuguccucacacccgcucgugggaagcagcgccugucgcaacucgccacuuguucuccucacagca         exp
    ...((.((((.(.((((.((((....))))))(.(((((((.(((((((((.(((.(((........)))))))))))))...)).)))))))))).....)))).)))))..)..
    ..acuuugggugcgggcuggccc.......................................................................................  reads      mm         sample
    ..............................agaguugcugccgcugcug.............................................................  1          0          seq
    ..............................agaguugcugccgcugcuguU...........................................................  2          0          seq
    ..............................agaguugcugccgcugcugcc...........................................................  1          1          seq
    ..............................agaguugcugccgcugcuguccu.........................................................  3          0          seq
    ..............................agaguugcugccgcugcuguccU........................................................  4          0          seq
    ...................................aguugcugccgcugcuguccu.......................................................  1          0          seq
    ....................................uugcugccgcugcuguccu........................................................  2          0          seq
    .....................................gcugccgcugcuguccucacacccgcu...............................................  1          0          seq
    .....................................cugccgcugcuguccucaca......................................................  1          0          seq
    ......................................gccgcugcuguccucacacc....................................................  1          0          seq
    ......................................gccgcugcuguccucacacccgA.................................................  1          1          seq
    .....................................cugccgcugcuguccucacacccgcucgug............................................  1          0          seq
    ......................................ccgcugcuguccucacacc....................................................  1          0          seq
    ......................................ccgcugcuguccucacacccg..................................................  3          0          seq
    .......................................cgcugcuguccucacacc....................................................  1          0          seq
    .......................................cgcugcuguccucacacccg..................................................  1          0          seq
    ......................................cugcuguccucacacccg.....................................................  2          0          seq
    .......................................cugcuguccucacacccgcu..................................................  1          0          seq
    ...........................................cucacacccgcucgugggaag.............................................  1          0          seq
    ............................................ucacacccgcucgugggaagcagcgcc.....................................  1          0          seq
    ...........................................cacacccgcucgugggaagcagcgccGg.....................................  1          1          seq
    ............................................acccgcucgugggaagcagcgcc.........................................  1          0          seq
    ............................................acccgcucgugggaagcagcgccugucgcaacucgcc...........................  1          0          seq
    ...............................................cccgcucgugggaagcagcgcc.......................................  1          0          seq
    ................................................gcucgugggaagcagcgccugucgcaacucgcc...........................  2          0          seq
    .................................................cucgugggaagcagcgccu........................................  1          0          seq
    ...................................................ggaagcagcgccugucgcaacucgcc...............................  2          0          seq
    ....................................................ggaagcagcgccugucgcaacucgccU..............................  1          1          seq
    .....................................................gaagcagcgccugucgcaacu...................................  6          0          seq
    ......................................................gaagcagcgccugucgcaacuc..................................  3          0          seq
    .......................................................gaagcagcgccugucgcaacucU................................  1          1          seq
    ........................................................gaagcagcgccuUucgcaacucg................................  1          1          seq
    .........................................................gaagcagcgccugucgcaacucg...............................  39         0          seq
```

```
                                 Star                      Mature
cuacuuugggugcgggcuggcccaugggccgcagaguugcugccgcugcuguccucacacccgcucgugggaagcagcgccugucgcaacucgccacuuguucuccucacagca
.............................................................gaagcagcgccugucgcaacucgA...................  3          1          seq
.............................................................gaagcagcgccugucgcaacucgc....................  18         0          seq
.............................................................gaagcagcgccugucgcaacucgcA...................  2          1          seq
.............................................................gaGgcagcgccugucgcaacucgcc...................  1          1          seq
.............................................................gaagcagcgccugucgcaacucgcU...................  52         1          seq
.............................................................gaagcagcgccugucgcaacucgcc...................  98         0          seq
.............................................................gaagcagcgccAgucgcaacucgcc...................  1          1          seq
.............................................................gaagcagcgccugucgcaacucgccU..................  72         1          seq
.............................................................gaagcagcgccugucgcaacucgcca..................  10         0          seq
.............................................................gaagcagcgccugucgcaacucgccG..................  1          1          seq
.............................................................gaagcagcgccugucgcaacucgccaU.................  2          1          seq
.............................................................gaagcagcgccugucgcaacucgccaUu................  2          1          seq
.............................................................aagcagcgccugucgcaacucg......................  1          0          seq
.............................................................aagcagcgccugucgcaacucgc.....................  6          0          seq
.............................................................aagcagcgcccCgucgcaacucgcc...................  1          1          seq
.............................................................aagcagcgccugucgcaacucgcc....................  47         0          seq
.............................................................Cagcagcgccugucgcaacucgcc....................  1          1          seq
.............................................................aagcagcgccugucgcaacucgcU....................  4          1          seq
.............................................................aagcagcgccugucgcaacucgccU...................  9          1          seq
.............................................................aagcagcgccugucgcaacucgcca...................  3          0          seq
.............................................................aagcagcgccugucgcaacucgccaU..................  1          1          seq
.............................................................agcagcgccugucgcaacucgcc.....................  1          0          seq
..............................................................cagcgccugucgcaacucgc........................  1          0          seq
..............................................................cagcgccugucgcaacucgccacuuguucuccucacagA.....  1          1          seq
...............................................................agcgccugucgcaacucgccacuuguucuccu...........  1          0          seq
................................................................gcgccugucgcaacucgcc........................  2          0          seq
.................................................................cgccugucgcaacucgccacuuguucuccucacagA.......  1          1          seq
..................................................................cugucgcaacucgccacuuguucuccucacag..........  1          0          seq
...................................................................ugucgcaacucgccacuuguucu...................  1          0          seq
```

novel-mir-candidate-232

Provisional ID	:	chr10_25236
Score total	:	2.4
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.7
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	650
Mature read count	:	649
Loop read count	:	0
Star read count	:	1

```
                                   Star                 Mature
5'- aauuacuuuaucuuaaaaaaaaauugugacccaauauuuacaggcccaacaugauccauaucccagggaaaugaaucauguuugggccuguaaaauguuggguca caaauugc  -3'   obs
    aauuacuuuaucuuaaaaaaaaauugugacccaauauuuacaggcccaacaugauccauaucccagggaaaugaaucauguuugggccuguaaaauguuggguca caaauugc        exp
    ....................(((((((((((((((((((((((((((((((((.(((.(((....))).))).))))))))))))))))))))))))))))))))).. reads     mm        sample
    ....................................uuacaggcccaacaugauc.......................................................... 1         0         seq
    ....................................uacaggcccaacaugaucca......................................................... 1         0         seq
    ....................................uacaggcccaacaugauccau........................................................ 1         0         seq
    ....................................acaggcccaacaugauccauauA...................................................... 1         1         seq
    ......................................................aaaugaaucauguuugggcc....................................... 3         0         seq
    ......................................................aaaugaaucauguuugggccu...................................... 21        0         seq
    ......................................................aaaugaaucauguuugggccuU..................................... 1         1         seq
    ......................................................aaaugaaucauguuugggccug..................................... 6         0         seq
    ......................................................aaaAgaaucauguuugggccug..................................... 1         1         seq
    ......................................................aaaugaaucauguuugggccGg..................................... 1         1         seq
    ......................................................aaaugaaucaugAugggccugu..................................... 1         1         seq
    ......................................................Caaugaaucauguuugggccugu.................................... 2         1         seq
    ......................................................aaaugaaucauguuugggccugu.................................... 122       0         seq
    ......................................................aaaugaaucauguAgggccugu..................................... 1         1         seq
    ......................................................aaaugaaucauguuugggccugA.................................... 34        1         seq
    ......................................................aaaugaaucaugGugggccugu..................................... 1         1         seq
    ......................................................aaaugaaucauguuugggcNugu.................................... 1         1         seq
    ......................................................aaaugaaucauguuugggccugua................................... 36        0         seq
    ......................................................aaaugaaucauguuugggccugAa................................... 4         1         seq
    ......................................................aaaugaaucauguuugggccuguU................................... 17        1         seq
    ......................................................aaaugaaucauguuugggccugAaa.................................. 2         1         seq
    ......................................................aaaugaaucauguuugggccuguaG................................. 5         1         seq
    ......................................................aaaugaaucauguuugggccuguaC................................. 1         1         seq
    ......................................................aaaugaaucauguuugggccuguGa................................. 5         1         seq
    ......................................................aaaugaaucauguuugggccuguUa................................. 5         1         seq
    ......................................................aaaugaaucauguuugggccuguCa................................. 2         1         seq
    ......................................................aaaugaaucauguuugggccuguaU................................. 27        1         seq
    ......................................................aaaugaaucauguuugggccuguaa................................. 25        0         seq
    ......................................................aaaugaaucauguuugggccuguaCa................................ 1         1         seq
    ......................................................aaaugaaucauguuugggccuguaaa................................ 5         0         seq
    ......................................................aaaugaaucauguuugggccuguaUa................................ 1         1         seq
    ......................................................aaaugaaucauguuugggccuguaaU................................ 5         1         seq
    ......................................................aaaugaaucauguuugggAcuguaaa................................ 1         1         seq
```

```
                                   Star                 Mature
aauuacuuuaucuuaaaaaaaaauugugacccaauauuuacaggcccaacaugauccauaucccagggaaaugaaucauguuugggccuguaaaauguuggguca caaauugc
....................................................................aaugaaucauguuugggcc.......................... 1         0         seq
....................................................................aaugaaucauguuugggccu......................... 2         0         seq
....................................................................aaugaaucauguuugggccug........................ 4         0         seq
....................................................................aaugaaucauguuugggccugA....................... 1         1         seq
....................................................................aaugaaucauguuugggccugu....................... 42        0         seq
....................................................................aaugaaucauguuugggccCgu....................... 1         1         seq
....................................................................aGugaaucauguuugggccugu....................... 1         1         seq
....................................................................Caugaaucauguuugggccugu....................... 1         1         seq
....................................................................aaugaaucauguuugggccuguU...................... 7         1         seq
....................................................................aaugaaucauguuugggccugua...................... 32        0         seq
....................................................................aGugaaucauguuugggccugua...................... 1         1         seq
....................................................................aaugaaucauguuugggccuUua...................... 1         1         seq
....................................................................aaugaaucaugCugggccuguaa...................... 1         1         seq
....................................................................aaugaaucauguuugggccuguGa..................... 1         1         seq
....................................................................aaugaaucauguuugggccuguaU...................... 31        1         seq
....................................................................aaugaaucauguuugggccuguaC...................... 3         1         seq
....................................................................aUugaaucauguuugggccuguaa...................... 1         1         seq
....................................................................aaugaaucauguuugggccuAuaa...................... 1         1         seq
....................................................................aaugaaucauguuugggccuguaa...................... 62        0         seq
....................................................................aaugaaucauguuugggccuguUa...................... 4         1         seq
....................................................................aaugaaucauguuugggccuguaG...................... 8         1         seq
....................................................................aaugaaucauguGgggccuguaa...................... 1         1         seq
....................................................................aaugaaucauguuugggccuguaUa..................... 1         1         seq
....................................................................aaugaaucauguuugggccuguaaa..................... 4         0         seq
....................................................................aaugaaucauguuugggccuguaaC..................... 1         1         seq
....................................................................Gaugaaucauguuugggccuguaaa..................... 1         1         seq
....................................................................aaugaaucauguuugggccuguaGa..................... 3         1         seq
....................................................................augaaucauguuugggccugua........................ 3         0         seq
....................................................................augaaucauguuugggccuguaC...................... 1         1         seq
....................................................................augaaucauguuugggccuguaa...................... 9         0         seq
....................................................................augaaucauguuugggccuguUa...................... 1         1         seq
....................................................................augaaucauguuugggccuguaU...................... 8         1         seq
....................................................................augaaucauguuugggccuguaaa..................... 8         0         seq
....................................................................augaaucauguuugggccuguaaU..................... 1         1         seq
....................................................................augaaucauguuugggccuguaGa..................... 3         1         seq
....................................................................ugaaucauguuugggccugu......................... 1         0         seq
....................................................................ugaaucauguuugggccugua........................ 2         0         seq
....................................................................ugaaucauguuugggccuguaa....................... 11        0         seq
....................................................................ugaaucauguuugggccuguU........................ 3         1         seq
....................................................................ugaaucauguuugggccuAuaa....................... 1         1         seq
....................................................................ugaaucauguuugggccuguaaa..................... 4         0         seq
....................................................................ugaaucauguuugggccuguaGa..................... 2         1         seq
....................................................................ugaaucauguuugggccuguaaU..................... 6         1         seq
....................................................................ugaaucauguuugggccuguaaaau.................... 1         0         seq
....................................................................ugaaucauguuugggccuguaaaauU................... 1         1         seq
....................................................................gaaucauguuugggccugua......................... 1         0         seq
....................................................................gaaucauguuugggccuguaa........................ 3         0         seq
....................................................................gaaucauguuugggccuguNaau...................... 1         1         seq
....................................................................gaaucauguuugggccuguaaaau..................... 2         0         seq
....................................................................gaaucauguuugggccuguaaaauU.................... 1         1         seq
....................................................................aaucauguuugggccuguaa......................... 1         0         seq
....................................................................aaucauguuugggccuguaaa........................ 3         0         seq
....................................................................Gaucauguuugggccuguaaa........................ 1         1         seq
....................................................................aaucauguuugggccuguaaau....................... 8         0         seq
....................................................................aaucauguuugggccuguaaaauA..................... 2         1         seq
....................................................................aaucauguuugggccuguaaaug...................... 2         0         seq
....................................................................aaucauguuugggccuguaaauU...................... 3         1         seq
....................................................................aaucauguuugggccuguaaaugA..................... 6         1         seq
....................................................................aaucauguuugggccuguaaaugu..................... 15        0         seq
....................................................................aaucauguuugggccuguaaauguu.................... 2         0         seq
....................................................................aucauguuugggccuguaaaaug...................... 1         0         seq
....................................................................aucauguuugggccuguaaaugu...................... 3         0         seq
.......................................................................uugggccuguaaauguuggguc.....................  1         0         seq
.......................................................................uugggccuguaaauguuggguU.....................  2         1         seq
```

novel-mir-candidate-191

Provisional ID	:	chr16_34988
Score total	:	10.3
Score for star read(s)	:	3.9
Score for read counts	:	3.2
Score for mfe	:	2.3
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	18
Mature read count	:	17
Loop read count	:	0
Star read count	:	1

Mature **Star**

```
5'- ccgcgcuggcggcuggggcuucucagccucuauucccuggcugucccuuuguuugaagcuccagugagggagcaguggcuggggguggcccagcuucaaagucucuguccuc  -3'   obs
    ccgcgcuggcggcuggggcuucucagccucuauucccuggcugucccuuuguuugaagcuccagugagggagcaguggcuggggguugcccagcuucaaagucucuguccuc        exp
    .(((....)))(((((((.(.(((((((((.((.((((((.((((....((((....)))).....)))).)))))))..)).))))))))..).)))))).................   reads    mm    sample
    ....................ucucagccucuauucccuggc.......................................................................   1        0     seq
    ....................ucucagccucuauucccuggcu......................................................................   13       0     seq
    ....................ucucagccucuauucccuggcA......................................................................   2        1     seq
    ....................ucucagccucuauucccuggUu......................................................................   1        1     seq
    ..............................................................ugagggagcaguggcuggggg..........................   1        0     seq
```

novel-mir-candidate-153

Provisional ID	:	chr16_35618
Score total	:	26.8
Score for star read(s)	:	3.9
Score for read counts	:	23.6
Score for mfe	:	2.2
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	58
Mature read count	:	56
Loop read count	:	0
Star read count	:	2

Star Mature

```
5'- gccuugcagggagccaccggggcccaggcgugggcagcagcggggaggggagagaggcuggccuugaccucucuuucuuuccuuucccacagaggugcuggagggugagugug  -3'   obs
    gccuugcagggagccaccggggcccaggcgugggcagcagcggggaggggagagaggcuggccuugaccucucuuucuuuccuuucccacagaggugcuggagggugagugug        exp
    (((((.(((.....(((((..(((((....)))))..).(.((((((((((((((((..((......))..)))))))))))))))).)...)))))))..)))))........   reads     mm        sample
    ................................gcGgcagcggggagggga.......................................................................   1         1         seq
    ......................................agcggggaggggagagaggcug.............................................................   2         0         seq
    ...................................................................ccucucuuucuuuccuuucccacagU.....................   1         1         seq
    ......................................................................ucucuuucuuuccuuucccaca......................   12        0         seq
    ......................................................................ucucuuucuuuccuuucccacag.....................   2         0         seq
    ...................................................................ucucuuucuuuccuuucccacagU.....................   26        1         seq
    .......................................................................Gucuuucuuuccuuucccacaga.....................   1         1         seq
    .......................................................................cucuuucuuuccuuucccacagU.....................   8         1         seq
    ...................................................................cucuuucuuuccuuucccacaga.....................   5         0         seq
    .......................................................................cucuuucuuuccuuucccacagaA....................   1         1         seq
```

novel-mir-candidate-79

Provisional ID	:	chr10_23789
Score total	:	61.2
Score for star read(s)	:	3.9
Score for read counts	:	54.7
Score for mfe	:	1.7
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	119
Mature read count	:	107
Loop read count	:	0
Star read count	:	12

Star **Mature**

```
5'- ccccagagacagggugcagcuacagugugcacagggacgaccccuccucugggcaucucuccccucaugugugucuguucccugucucucuagcucuuuaccaaaccucaccc  -3'   obs
    ccccagagacagggugcagcuacagugugcacagggacgaccccuccucugggcaucucuccccucaugugugucuguucccugucucucuagcucuuuaccaaaccucaccc        exp
    ...((((((((((.((((.((((..(((....((((.((.(((......)))..))..))))..)))).))))).))))).))))))))))..........................
    .ccagagacagggugcagcuac.....................................................................................  1        0        seq
    .ccagagacagggugcagcuaca....................................................................................  2        0        seq
    .ccagagacagggugcagcuacaA...................................................................................  1        1        seq
    ..cagagacagggugcagcuaca....................................................................................  8        0        seq
    ..........................................................cccucaugugugucuguucccugucucucuag.................  1        0        seq
    ...........................................................ugugucuguucccugucu.............................  1        0        seq
    ...........................................................ugugucuguucccugucucu...........................  1        0        seq
    ...........................................................ugugucuguucccugucucucu........................  4        0        seq
    ...........................................................ugucuguucccugucucu.............................  1        0        seq
    ...........................................................ugucuguucccuUucucucu..........................  1        1        seq
    ...........................................................ugucuguucccugucucucu........................  2        0        seq
    ...........................................................ugucuguucccugucucucua.......................  4        0        seq
    ...........................................................ugucuguucccugucucucuaU......................  2        1        seq
    ...........................................................ugucuguucccugucucuNuag......................  1        1        seq
    ...........................................................ugucuguucccugucucucuaA......................  1        1        seq
    ...........................................................ugucuguucccuUucucucuag......................  1        1        seq
    ...........................................................Agucuguucccugucucucuag......................  1        1        seq
    ...........................................................uNucuguucccugucucucuag......................  1        1        seq
    ...........................................................ugucGguucccugucucucuag......................  1        1        seq
    ...........................................................ugucuguucccugucucucuag......................  69       0        seq
    ...........................................................uUucuguucccugucucucuag......................  1        1        seq
    ...........................................................ugucuguucccugucucucuagU.....................  7        1        seq
    ...........................................................ugucuguucccugucucucuagA.....................  6        1        seq
    ...........................................................ucuguucccugucucucuagA......................  1        1        seq
    ..........................................................ucccugucucucuagcAc..........................  1        1        seq
```

novel-mir-candidate-344

Provisional ID	:	chr2_8188
Score total	:	1.7
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	30
Mature read count	:	30
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- gaggugggugcuugugccugggggccuuuuggguucucagugccgaagugggugggagggugugugguccccauggggcacuggggcugaccuggagaguccuggccua  -3'   exp
    .((((.(((((((..(((....)))....(.(((((((((((...(((((.............)))))...)))))))))))).)....)))))).)))).))))).   reads     mm        sample
    ...........................................................................caugggggcacuggggcu.....................   1         0         seq
    ...........................................................................Uaugggggcacuggggcug.....................   2         1         seq
    ...........................................................................caugggggcacuggggcug.....................   1         0         seq
    ...........................................................................Aaugggggcacuggggcuga....................   1         1         seq
    ...........................................................................augggggcacuggggcug.....................   23        0         seq
    ...........................................................................ugggggcacuggggcugU.....................   1         1         seq
    ...........................................................................uggUggcacuggggcugacc...................   1         1         seq
```

novel-mir-candidate-415

Provisional ID	:	chr16_35817
Score total	:	1.3
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.8
Score for randfold	:	-2.2
Score for cons. seed	:	3
Total read count	:	33
Mature read count	:	33
Loop read count	:	0
Star read count	:	0

Mature **Star**

```
5'- uuacgguugguuggcccucaucccugucaccucuggaccugcagaggacucuggaucugaagaccaugcugggccagaguggcuggugagaucugaccugcuccucagcaaga   -3'    exp
    ........((((((..((((((...(((((.(((((.((((((..((..(((........)))))).))).)))))))))))))).))))))..))))))))))(((....)))).....
```

	reads	mm	sample
....uccugucaccucuggaccu....	2	0	seq
....ucccugucaccucuggaccug....	1	0	seq
....ucccugucaccucuggaccugU....	1	1	seq
....ucccugucaccucuggaccugA....	1	1	seq
....ucccugucaccucuggaccugc....	3	0	seq
....ucccugucaccucuggaccugca....	14	0	seq
....ucccugucaccucuggaccugcaA....	2	1	seq
....ucccugucaccucuggaccugcaU....	8	1	seq
....ucccugucaccucuggaccugcaUa....	1	1	seq

novel-mir-candidate-180

Provisional ID	:	chr3_8739
Score total	:	13.5
Score for star read(s)	:	3.9
Score for read counts	:	10.3
Score for mfe	:	2
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	32
Mature read count	:	31
Loop read count	:	0
Star read count	:	1

Star **Mature**

```
5'- uaagccugacucgaggggaaguggcugaggcuggcuggagggagagggugcgcugucccauugaccugggcacugacccccaccuccacagggcuguggcuucggguaccg  -3'   obs
    uaagccugacucgaggggaaguggcugaggcugacuggagggagagggugcgcugucccauugaccugggcacugacccccaccuccacagggcuguggcuucggguaccg        exp
    ....(((......)))....(((.((((((((((((((((..(.((((.((.((.((((......)))))).)))))))..)))))....))))..)))))))).)))..   reads    mm    sample
    ................................cuggagggagagggugcgcugu.............................................................   1        0     seq
    ............................................................auugacUugggcacugac...............................   2        1     seq
    ...............................................................cacugacccccaccuccaU.....................   1        1     seq
    ...............................................................cacugacccccaccuccacag...................   6        0     seq
    ...............................................................cacugacccccaccuccacagU..................   9        1     seq
    ...............................................................cacugacccccaccuccacagA..................   9        1     seq
    ...............................................................acugacccccaccuccacagA...................   4        1     seq
    ...............................................................acugacccccaccuccacagU...................   2        1     seq
```

novel-mir-candidate-5

Provisional ID	:	chr7_19532
Score total	:	1183.5
Score for star read(s)	:	3.9
Score for read counts	:	1193.6
Score for mfe	:	-11.2
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	2353
Mature read count	:	2352
Loop read count	:	0
Star read count	:	1

```
                                   Star                                   Mature
5'- uuuugauacaauaauaagcccucuuuuuaagugugauaauguuugaauguaguguuaaaaccuguuaaaauacucauugcugaucacucauaaaaagaaaaauuuguu  -3'    obs
    uuuugauacaauaauaagcccucuuuuuaagugugauaauguuugaauguaguguuaaaaccuguuaaaauacucauugcugaucacucauaaaaagaaaaauuuguu         exp
    ......................(((((((.(.(((((...((...((((.(((((((.............)))))))))))..)))))).).)))))))).........   reads     mm        sample
    ....................................ugauaauguuugaauAua.......................................................   1         1         seq
    ......................................................................aUaauacucauugcugauc......................   6         1         seq
    ......................................................................aaaauacucauugcugauc......................   2         0         seq
    ......................................................................aCaauacucauugcugauc......................   1         1         seq
    ......................................................................aUaauacucauugcugaucacu...................   3         1         seq
    ......................................................................aaaauacucauugcugauc......................   1         0         seq
    ......................................................................Uaauacucauugcugauc......................   9         1         seq
    ......................................................................Caauacucauugcugauc......................   1         1         seq
    ......................................................................Caauacucauugcugaucacu...................   1         1         seq
    ......................................................................Uaauacucauugcugaucacu...................   4         1         seq
    ......................................................................aaauacucauugcugaucacu...................   1         0         seq
    ......................................................................aauacucauugcugauca......................   42        0         seq
    ......................................................................aauacucauugcugaucac.....................   2         0         seq
    ......................................................................aauacucauugcugaucacu....................   310       0         seq
    ......................................................................aauacucauugcugaGcacu....................   2         1         seq
    ......................................................................aauacucauugcugaucGcu....................   2         1         seq
    ......................................................................aauacuUauugcugaucacu....................   1         1         seq
    ......................................................................Gauacucauugcugaucacu....................   1         1         seq
    ......................................................................Cauacucauugcugaucacu....................   4         1         seq
    ......................................................................auacucauugcugaucaA......................   1         1         seq
    ......................................................................auacucauugcugaucac......................   24        0         seq
    ......................................................................auacuUauugcugaucacu....................   1         1         seq
    ......................................................................auacucauugcugaucacA....................   9         1         seq
    ......................................................................Guacucauugcugaucacu....................   2         1         seq
    ......................................................................auacucauugcugaucacG....................   1         1         seq
    ......................................................................auacucauuAcugaucacu....................   1         1         seq
    ......................................................................aAacucauugcugaucacu....................   1         1         seq
    ......................................................................auacucauugcugaucaGu....................   1         1         seq
    ......................................................................Cuacucauugcugaucacu....................   8         1         seq
    ......................................................................auacucauugUugaucacu....................   1         1         seq
    ......................................................................auacucauCgcugaucacu....................   1         1         seq
    ......................................................................auacucauugcugaucacu....................   704       0         seq
    ......................................................................auacucauugcuUaucacu....................   5         1         seq
```

```
                                   Star                                   Mature
uuuugauacaauaauaagcccucuuuuuaagugugauaauguuugaauguaguguuaaaaccuguuaaaauacucauugcugaucacucauaaaaagaaaaauuuguu
.......................................................................auacucauugcAgaucacu....................   1         1         seq
.......................................................................auacucauugcugaucacuA...................   1         1         seq
.......................................................................uacuUauugcugaucacu.....................   1         1         seq
.......................................................................uacGcauugcugaucacu.....................   5         1         seq
.......................................................................uacucauGgcugaucacu.....................   1         1         seq
.......................................................................Gacucauugcugaucacu.....................   2         1         seq
.......................................................................uGcucauugcugaucacu.....................   2         1         seq
.......................................................................uaAucauugcugaucacu.....................   1         1         seq
.......................................................................Nacucauugcugaucacu.....................   1         1         seq
.......................................................................uacuNauugcugaucacu.....................   1         1         seq
.......................................................................uacucauugcugauGacu.....................   1         1         seq
.......................................................................uacucauugcCgaucacu.....................   1         1         seq
.......................................................................uacucauugAugaucacu.....................   1         1         seq
.......................................................................Aacucauugcugaucacu.....................   4         1         seq
.......................................................................uacAcauugcugaucacu.....................   1         1         seq
.......................................................................uacucauugcugaucacu.....................   1187      0         seq
.......................................................................uacucauugcugaucacA.....................   16        1         seq
.......................................................................uacucauugcugaucaAu.....................   1         1         seq
```

novel-mir-candidate-330

Provisional ID	:	chr2_6424
Score total	:	1.8
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	1416
Mature read count	:	1416
Loop read count	:	0
Star read count	:	0

Mature Star

```
5'- acaguucaugucuggugagcugcacaguggcuaaguuucaggaccagcucagccacugcacagcucaacaaucaugagcugugcaucaaccugcuuugaucucaguuuc  -3'   exp
    ((((((((((..((.(((((((..((((((((.((((........)))).)))))))..)))))))..))).))..)))))))))))((((.......)))).............
    ...................cuUcacaguggcuaaguu.......................................................................
    ...................ugcacaguggcuaaguuu.......................................................................
    ...................ugcacaguggcuaaguuG.......................................................................
    ...................uAcacaguggcuaaguuu.......................................................................
    ...................uUcacaguggcuaaguuu.......................................................................
    ...................ugcacaguggcuaaguuA.......................................................................
    ...................ugcacaguggcuaaguuAc......................................................................
    ...................ugcacaguggcuaaguuuc......................................................................
    ...................ugcacaguggcuaaguuCc......................................................................
    ...................uUcacaguggcuaaguuuc......................................................................
    ...................ugcacaguggcuaaguuucG.....................................................................
    ...................uUcacaguggcuaaguuuca.....................................................................
    ...................ugcacaguggcuaaguuCca.....................................................................
```

reads	mm	sample
4	1	seq
4	0	seq
2	1	seq
1	1	seq
950	1	seq
8	1	seq
2	1	seq
3	0	seq
347	1	seq
71	1	seq
19	1	seq
4	1	seq
1	1	seq

novel-mir-candidate-236

Provisional ID	:	chr14_31529
Score total	:	2.3
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.6
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	33
Mature read count	:	33
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- uuuauuugcuuacacaauugcaagcaugagauguggugguuggagcgucaguccugcuccagccaugagagggcuccagcaggacugaugcucccaaccauaucuuugauucugc  -3'   exp
    ......(((((.((.....)).)))))).(((((((((((((((((((((((((((..((((.......))))..)))))))))))))))))))))))))).........
    ...........................................................Acuccagcaggacugaugcucc....................
    ...........................................................cuccagcagUacugaugcu......................
    ...........................................................cuccagcaggacugaugcu......................
    ...........................................................cuccagcaggacugaugcucc....................
    ...........................................................cuccagcaggacugaugcucU....................
    ...........................................................cuccagcaggacugaugcuccU...................
    ...........................................................cuccagcaggacugaugcucca...................
    ...........................................................cuccagcaggacugaugcuccaa..................
```

reads	mm	sample
1	1	seq
1	1	seq
5	0	seq
19	0	seq
2	1	seq
2	1	seq
2	0	seq
1	0	seq

novel-mir-candidate-72

Provisional ID	:	chr5_14960
Score total	:	62.7
Score for star read(s)	:	3.9
Score for read counts	:	55.7
Score for mfe	:	2.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	121
Mature read count	:	116
Loop read count	:	0
Star read count	:	5

```
                                   Star                 Mature
5'- ggcccuauggacucaucaucugccccucggguaagauaggcuggccuggagggcaggccagagauuggggcugccaucuggugccagccuuuguccccucugccugcagcggg  -3'    obs
    ggcccuauggacucaucaucugccccucggguaagauaggcuggccuggagggcaggccagagauuggggcugccaucuggugccagccuuuguccccucugccugcagcggg         exp
    (((.....((((.....(((((((....)))).))))))))))))))))))))).(((((.((.........)).)))))).)))))))..))))....)))).........  reads     mm        sample
    ..cccuauggacucaucaucCgccccucg.......................................................................................  1         1         seq
    ...ccuauggacucaucaucugcccc..........................................................................................  1         0         seq
    ...ccuauggacucaucaucugccccu.........................................................................................  2         0         seq
    ................................gauaggcuggccuggagggc................................................................  1         0         seq
    ...................................auaggcuggccuggagggcagg...........................................................  1         0         seq
    ..................................uaggcuggccuggagggcag..............................................................  1         0         seq
    ...................................uaggcuggccuggagggcagg...........................................................  1         0         seq
    ...................................uaggcuggccuggagggcaggc..........................................................  2         0         seq
    ..................................................gcaggccagagauuggggcug.............................................  1         0         seq
    ...................................................ggccagagauuggggcug...............................................  2         0         seq
    ....................................................................auuggggcugccaucuggugccagG.......................  1         1         seq
    .....................................................................uuggggcugccaucuggugccagcU......................  1         1         seq
    ......................................................................cugccaucuggugccagc............................  1         0         seq
    ......................................................................cugccaucuggugccagccuu........................  3         0         seq
    ......................................................................cugccaucugguUccagccuu........................  1         1         seq
    ......................................................................cugccaucuggugccagccuuu.......................  48        0         seq
    ......................................................................cugccaucuggugccagccuuA.......................  6         1         seq
    ......................................................................cugccaucuggugccagccuuG.......................  1         1         seq
    ......................................................................cugccaucuggugccagccuGu.......................  2         1         seq
    ......................................................................cugccaucuggugccagccuuuU......................  5         1         seq
    ......................................................................cugccaucuggugccagccuuuA......................  5         1         seq
    ......................................................................cugccaucuggugccagccuuuUu.....................  1         1         seq
    ......................................................................ugccaucuggugccagcc...........................  2         0         seq
    ......................................................................ugccaucuggugccagccA..........................  1         1         seq
    ......................................................................ugccaucuggugccagccuA.........................  1         1         seq
    ......................................................................ugccaucuggugccagccuuu........................  13        0         seq
    ......................................................................ugccaucuggugccagccuuA........................  1         1         seq
    ......................................................................ugccaucuggugccagccuuuU......................  2         1         seq
    ......................................................................ugccaucuggugccagccuuug......................  2         0         seq
    ......................................................................ugccaucuggugccagccuuugu.....................  4         0         seq
    ......................................................................ugccaucuggugccagccuuugA.....................  11        1         seq
    ......................................................................ugccaucuggugccagccuuuUu.....................  2         1         seq
    ......................................................................ugccaucuggugccagccuuugucA...................  1         1         seq
```

```
                                   Star                 Mature
ggcccuauggacucaucaucugccccucggguaagauaggcuggccuggagggcaggccagagauuggggcugccaucuggugccagccuuuguccccucugccugcagcggg
.......................................................................ugccaucuggugccagccuuugucU................  1         1         seq
.......................................................................ccaucuggugccagccuuuguc...................  2         0         seq
...............................................................................ccuuugucccucugccugcagU...............  1         1         seq
```

novel-mir-candidate-327

Provisional ID	:	chr12_30160
Score total	:	1.8
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	33
Mature read count	:	31
Loop read count	:	0
Star read count	:	2

Star **Mature**

```
5'- gggguuccuccccugggucugagggaggaauggagaaaggggcauuagagccugaccugcccacuugcuugucuguccucuuuccaacccaggccauuuguggaggcccgggc  -3'   obs
    gggguuccucccugggucugagggaggaauggagaaaggggcauuagagccugaccugcccacuugcuugucuguccucuuuccaacccaggccauuuguggaggcccgggc        exp
    (((((((.(((((((((..(((((((((...(((.((((((((((((...)))))..)))))..)))).)))).....))))))))))..)))))))......).)))).))))....  reads   mm   sample
    .........ccGgggucugagggagga.......................................................................................  1       1    seq
    ...........ugggucugagggaggaauggagaaaggggcauu.......................................................................  1       0    seq
    ............gggucugagggaggaGug.....................................................................................  1       1    seq
    ...............................................................uugucuguccucuuuccaacccagA....................  1       1    seq
    ..............................................................ucuguccucuuuccaacccag.........................  1       0    seq
    ...............................................................ucuguccucuuuccaacccagU........................  12      1    seq
    ..............................................................ucuguccucuuuccaacccagA.........................  18      1    seq
```

novel-mir-candidate-227

Provisional ID	:	chr10_23760
Score total	:	2.4
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.7
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	671
Mature read count	:	615
Loop read count	:	0
Star read count	:	56

```
                    Mature                  Star
5'- acgugagugagugcgggauc uggcuggcugcuccgggcacu ggcaggagcaagcuc cguguccagaauggccagccaga ucccacacuugcucgcacacuuggauggcgg  -3'   obs
     acgugagugagugcgggauc uggcuggcugcuccgggcacu ggcaggagcaagcuccg uguccagaauggccagccaga ucccacacuugcucgcacacuuggauggcgg        exp
     ..(((((((((((.(((((((((((((((((.((.((((((.....((((....)))))))))).)).))))))))))))))).))))))))))).................   reads   mm   sample
     .........aAugcgggaucuggcuggcug.......................................................................................   1       1    seq
     ................aucuggcuggcugcuccggg.................................................................................   1       0    seq
     ................aucuggcuggcugcuccgggc................................................................................   1       0    seq
     ................aucuggcuggcugcuccgCgca...............................................................................   1       1    seq
     ................aucuggcuggcugcuccgggca...............................................................................   1       0    seq
     ................aucuggcuggcugcuccgggcaU..............................................................................   2       1    seq
     ................aucuggcuggcugcuccgggcac..............................................................................   1       0    seq
     ................aucuggcuggcugcuccgggcacu.............................................................................   2       0    seq
     ...................cuggcuggcugcuccgggcacu............................................................................   1       0    seq
     ...................cuggcuggcugcuccgggcacuA...........................................................................   1       1    seq
     ...................cuggcuggcugcuccgggcacugU..........................................................................   2       1    seq
     ...................cuggcuggcugcuccgggcacugA..........................................................................   1       1    seq
     ...................uggcuggcugcuccgggc................................................................................   3       0    seq
     ...................uggcuggcugcuccgggca...............................................................................   3       0    seq
     ...................Gggcuggcugcuccgggcac..............................................................................   1       1    seq
     ...................uggcuggcugcucUgggcac..............................................................................   1       1    seq
     ...................uggcuggcugcuccgggcUc..............................................................................   1       1    seq
     ...................uggcuggcugcuccgggcaA..............................................................................   2       1    seq
     ...................uggcuggcugcuccgggcac..............................................................................   86      0    seq
     ...................uggcuggcugcuccgggcaU..............................................................................   10      1    seq
     ...................uggcuggcuCcuccgggcacu.............................................................................   1       1    seq
     ...................uggcuggcugcuccgggcacu.............................................................................   189     0    seq
     ...................uggcuggcugcuccgggcacA.............................................................................   7       1    seq
     ...................uggcuggcugcuccgggcaUu.............................................................................   6       1    seq
     ...................uggcuggcugcCccgggcacu.............................................................................   1       1    seq
     ...................uggAuggcugcuccgggcacu.............................................................................   1       1    seq
     ...................uggcuggcugcuccgggcacG.............................................................................   1       1    seq
     ...................uggcuggcugcuccgggcNcu.............................................................................   2       1    seq
     ...................uggcuAgcugcuccgggcacu.............................................................................   1       1    seq
     ...................uUgcuggcugcuccgggcacu.............................................................................   1       1    seq
     ...................Cggcuggcugcuccgggcacu.............................................................................   1       1    seq
     ...................uggcuggcugcuccgggcacug............................................................................   133     0    seq
     ...................uggcuggcugcuccgggcacuU............................................................................   3       1    seq
```

```
                    Mature                  Star
acgugagugagugcgggauc uggcuggcugcuccgggcacu ggcaggagcaagcuc cguguccagaauggccagccaga ucccacacuugcucgcacacuuggauggcgg
.....................uggcuggcugcuccgggcacG.......................................................   2       1       seq
.....................Gggcuggcugcuccgggcacug.....................................................   1       1       seq
.....................uggcuggcugcuccgggcNcug.....................................................   1       1       seq
.....................uggcuggcugcuccgggcacuA.....................................................   2       1       seq
.....................uggcuggcCgcuccgggcacug.....................................................   1       1       seq
.....................uggcuggcugcuccgggcacugU....................................................   37      1       seq
.....................uggcuggcugcuccgggcacugA....................................................   93      1       seq
.....................uggcuggcugcuccgggcacugC....................................................   3       1       seq
.....................uggcuggcugcuccgggcacuggU...................................................   6       1       seq
.....................uggcuggcugcuccgggcacugAc...................................................   2       1       seq
.....................uggcuggcugcuccgggcacugCc...................................................   1       1       seq
.....................uggcuggcugcuccgggcacuggUa..................................................   1       1       seq
.....................uggcuggcugcuccgggcacugAca..................................................   2       1       seq
.....................uggcuggcugcuccgggcacuggca..................................................   1       0       seq
.....................uggcuggcugcuccgggcacuggAag.................................................   2       1       seq
.......................cuggcugcuccgggcacu.......................................................   1       0       seq
.............................................agcaagcuccguguccagaauggccagccagaucccacacuugcucgc.....   1       0       seq
.......................................................cUuguccagaauggccagccaga.................   1       1       seq
.......................................................cguguccagaauggccagccaga.................   35      0       seq
.......................................................cguguccagaauggccagccagaA................   4       1       seq
.......................................................cguguccagaauggccagccagau.................   2       0       seq
.......................................................cguguccagaauggccagccagaG................   2       1       seq
.......................................................cguguccagaauggccagccagaC................   1       1       seq
.......................................................uccagaauggccagccaga.....................   1       0       seq
.......................................................uccagaauggccagccagau....................   6       0       seq
.......................................................uccGgaauggccagccagauc...................   1       1       seq
.......................................................uccagaauggccagccagaucU..................   1       1       seq
.......................................................uccagaauggccagccagauccA.................   2       1       seq
```

novel-mir-candidate-110

Provisional ID	:	chr2_7502
Score total	:	42.4
Score for star read(s)	:	3.9
Score for read counts	:	39.4
Score for mfe	:	1.9
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	89
Mature read count	:	84
Loop read count	:	0
Star read count	:	5

Star **Mature**

```
5'- cgucuuccccagcagguuggagugggaugcgugcccugugggguggagccccuugcucaucccugugcgaccuggugcucugccccucaggaugaaggcuggcucaugggc  -3'   obs
    cgucuuccccagcagguuggagugggaugcgugcccugugggguggagccccuugcucaucccugugcgaccuggugcucugccccucaggaugaaggcuggcucaugggc        exp
    ......((((........((((.(((...((((..(((((.(((((((((((((.(((((.((....)).))))...)).)))))))))).)))))))....)).)))).)))).   reads     mm      sample
    ...cuucccagcagguuggagugggaug.................................................................................   1         0       seq
    ...................................ccugugggguggagccccuugcu.....................................................   1         0       seq
    ...................................Augugggguggagccccuugcu......................................................   1         1       seq
    ...................................ugugggguggagccccuugcu.......................................................   3         0       seq
    ..............................................................ugugcgaccuggugcucugccccu........................   2         0       seq
    ..............................................................gugcgaccuggugcucugccccu........................   1         0       seq
    ....................................................................ccuggugcucugccccucag......................   5         0       seq
    ....................................................................ccuggugcucugccccucagA.....................   51        1       seq
    ....................................................................ccuggugcucugccccucagU.....................   8         1       seq
    ....................................................................ccuggugcucugccccucagUa....................   1         1       seq
    ....................................................................ccuggugcucugccccucagAa....................   12        1       seq
    ....................................................................ccuggugcucugccccucagAau...................   2         1       seq
    ....................................................................cuggugcucugccccucagA......................   2         1       seq
    ....................................................................cuggugcucugccccucagAa.....................   2         1       seq
    ....................................................................uggugcucugccccucagA......................   1         1       seq
```

novel-mir-candidate-311

Provisional ID	:	chr20_41884
Score total	:	1.9
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	48
Mature read count	:	39
Loop read count	:	0
Star read count	:	9

Mature **Star**

```
5'- cuauauuuugaguccauauucaaaugagaacccagauaucugguauucaaauaagauacgacagauauaucugguauaucucauuugaacauggacucgaaacauacugccauc  -3'   obs
    cuauauuuugaguccauauucaaaugagaacccagauaucugguauucaaauaagauacgacagauauaucugguauaucucauuugaacauggacucgaaacauacugccauc        exp
    .(((.(((((((((((.((((((((((..((((((((((((((((.......)))))..)))))))))))....)))))))))))).))))))))))))).))).........   reads    mm    sample
    ...................ucaaaugagaacccagauauc.......................................................................   1        0     seq
    ...................ucaaaugagaacccagauaucu......................................................................   4        0     seq
    ....................caaaugagaacccagauauc.......................................................................   1        0     seq
    ....................caaaugagaacccagauaucu......................................................................   8        0     seq
    ....................caaaugagaacccagauaucug.....................................................................   3        0     seq
    ....................caaaugagaacccagauaucugA....................................................................   6        1     seq
    ....................caaaugagaacccagauaucugU....................................................................   14       1     seq
    ....................caaaugagaacccagauaucugC....................................................................   1        1     seq
    .....................aaaugagaacccagauaucu......................................................................   1        0     seq
    ..............................................................auaucugguauaucucauuugaac.......................   1        0     seq
    ..............................................................uaucugguauaucucauuNga..........................   1        1     seq
    ..............................................................uaucugguauaucucauuugaaU........................   4        1     seq
    ..............................................................uaucugguauaucucauuugaac........................   2        0     seq
    ..............................................................uaucugguauaucucauuugaacU.......................   1        1     seq
```

novel-mir-candidate-148

Provisional ID	:	chr9_22966
Score total	:	27.9
Score for star read(s)	:	3.9
Score for read counts	:	20.5
Score for mfe	:	2.5
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	52
Mature read count	:	45
Loop read count	:	0
Star read count	:	7

```
                                 Star                      Mature
5'- gcuaguuggagaaacuggcucggcucgggccuugcugggacucgggcucccaggguguguucucucucggggcacucgggucuuugcuggggcccggcgccggccccgca  -3'   obs
    gcuaguuggagaaacuggcucggcucgggccuugcugggacucgggcucccaggguguguucucucucggggcacucgggucuuugcuggggcccggcgccggccccgca        exp
    (((((((.....)))))))(((((((((((((.((.(((((((((((((.((((.((....)).))))...)))))).).))))))))).)).))))))))..)))))).....  reads   mm   sample
    ................................ugcugggacucgggcuccU.................................................................  1       1    seq
    ................................ugcugggacucgggcucccagA..............................................................  4       1    seq
    ................................ugcugggacucgggcucccaggU.............................................................  1       1    seq
    ................................ugcugggacucgggcucccaggA.............................................................  1       1    seq
    ......................................................ucggggcacucgggucuuugc.......................................  1       0    seq
    ......................................................ucggggcacucgggucuuugA.......................................  1       1    seq
    ......................................................ucggggcacuGgggucuuugc.......................................  1       1    seq
    ......................................................ucggggcacucgggucuuugcu......................................  4       0    seq
    ......................................................ucggggcacucgggucuuAgcug.....................................  1       1    seq
    ......................................................ucggggcacucgggucuuugcug.....................................  13      0    seq
    ......................................................ucggggcacucgggucuuugcugU....................................  5       1    seq
    ......................................................ucggggcacucgggucuuugcuggU...................................  1       1    seq
    ......................................................cggggcacucgggucuuugcGg......................................  1       1    seq
    ......................................................cggggcacucgggucuuugcug......................................  8       0    seq
    ......................................................cggggcacucgggucuuugcugA.....................................  1       1    seq
    ......................................................cggggcacucgggucuuugcugU.....................................  8       1    seq
```

novel-mir-candidate-437

Provisional ID	:	chr4_12217
Score total	:	1.1
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.4
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	14
Mature read count	:	14
Loop read count	:	0
Star read count	:	0

Mature **Star**

```
5'- aaauuaauucaaagaaagaugugguaucugagaagcugaugcucucacccugagaagagggaagggauuccccaggaugagggugaggagggcuccaggauggcaggug  -3'   exp
    ..................((.((.(((((..((.(((.....(((((((((.(.....(((((....)))))).....).)))))))))..)))))..)))).)).).   reads    mm       sample
    ....................gugguaucugagaagcug.................................................................   14       0        seq
```

novel-mir-candidate-10

Provisional ID	:	chr15_34162
Score total	:	469.7
Score for star read(s)	:	3.9
Score for read counts	:	467.1
Score for mfe	:	1.5
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	928
Mature read count	:	868
Loop read count	:	0
Star read count	:	60

Star **Mature**

```
5'- cucccgccgcuccuccacgcucgugccgcuccccccccgcgcucccaguugacgcucugggccgccaccuccgcggacccugagcgcaagagccaagccgccagcgcugcg  -3'   obs
    cucccgccgcuccuccacgcucgugccgcuccccccccgcgcucccaguugacgcucugggccgccaccuccgcggacccugagcgcaagagccaagccgccagcgcugcg        exp
    ....(((.((........(((.(.((.(((..........((((....(((.((((((.(((((((.......))))).))).))))))))))))..)))).))))))))..)))   reads   mm   sample
    ..........................ccgcuccccccccgcgcC.......................................................................   1       1    seq
    ............................................ccaguugacgcucugggc.......................................................   1       0    seq
    ..............................................guugacgcucugggccgccaU.................................................   1       1    seq
    ..............................................guugacgcucugggccgccacU................................................   1       1    seq
    ..............................................uugacgcucugggccgcc....................................................   6       0    seq
    ..............................................uugacgcucugggccgccU...................................................   10      1    seq
    ..............................................uugacgcucugggccgcca...................................................   5       0    seq
    ..............................................uugacgcucugggccgccaU..................................................   3       1    seq
    ..............................................uugacgcucugggccgccac..................................................   2       0    seq
    ..............................................uugacgcucugggccgccacU.................................................   19      1    seq
    ..............................................uugacgcucugggccgccacA.................................................   1       1    seq
    ..............................................uugacgcucugggccgccacc.................................................   2       0    seq
    ..............................................uugacgcucugggccgccaccA................................................   1       1    seq
    ..............................................uugacgcucugggccgccaccu................................................   3       0    seq
    ..............................................ugacgcucugggccgccacc..................................................   1       0    seq
    ..............................................ugacgcucugggccgccaccu.................................................   1       0    seq
    ..............................................ugacgcucugggccgccaccucgcggacc.........................................   1       0    seq
    ..............................................gacgcucugggccgccaccu..................................................   2       0    seq
    ...............................................cgcucugggccgccaccucc.................................................   1       0    seq
    ...............................................cgcucugggccgccaccucgcgga..............................................   1       0    seq
    ...............................................ucugggccgccaccucccg...................................................   1       0    seq
    ..............................................cugggccgccaccucccgcggac...............................................   2       0    seq
    ....................................................cgccaccucccgcggacccugagcgcaag....................................   2       0    seq
    ....................................................cgccaccucccgcggacccugagcgcaagagccaagccgccagcgcu..................   1       0    seq
    ....................................................gccaccucccgcggacccugagc..........................................   2       0    seq
    ....................................................ccaccucccgcggacccug..............................................   2       0    seq
    ....................................................ccaccucccgcggacccugag............................................   2       0    seq
    ....................................................ccaccucccgcggacccugNgcgc.........................................   1       1    seq
    ....................................................caccucccgcggacccugagcg...........................................   1       0    seq
    ....................................................accucccgcggacccugag..............................................   1       0    seq
    ....................................................accucccgcggacccugagc.............................................   5       0    seq
    ....................................................accucccgcggacccugagcg............................................   3       0    seq
    ....................................................accucccgcggacccugagcgc...........................................   1       0    seq
```

Star **Mature**

```
cucccgccgcuccuccacgcucgugccgcuccccccccgcgcucccaguugacgcucugggccgccaccuccgcggacccugagcgcaagagccaagccgccagcgcugcg
.......................................................................accucccgcggacccugagcgca.......................   3       0    seq
.......................................................................accucccgcggacccugagcgAa.......................   1       1    seq
.......................................................................accucccgcggacccugagcgcaagU....................   1       1    seq
.......................................................................accucccgcggacccugagcgcaagag...................   1       0    seq
.......................................................................accucccgcggacccugagcgcaagagc..................   2       0    seq
.......................................................................accucccgcggacccugagcgcaagagccaag..............   1       0    seq
.......................................................................ccucccgcggacccugagcgc.........................   4       0    seq
.......................................................................ccucccgcggacccugagcgca........................   8       0    seq
.......................................................................ccucccgcggacccugagcgcU........................   6       1    seq
.......................................................................ccucccgcggacccugagcgcaU.......................   2       1    seq
.......................................................................ccucccgcggacccugagcgcaa.......................   7       0    seq
.......................................................................ccucccgcggacccugagcgAaa.......................   1       1    seq
.......................................................................ccucccgcggacccugagcgcaaU......................   1       1    seq
.......................................................................ccucccgcggacccugagcgcaagag....................   1       0    seq
.......................................................................cuccgcggacccugagcg............................   3       0    seq
.......................................................................cuccgcggacccugagcgA...........................   1       1    seq
.......................................................................cuccgcggacccugagcgc...........................   1       0    seq
.......................................................................cuccgcggacccugagcgcU..........................   1       1    seq
.......................................................................cuccgcggacccugagcgca..........................   2       0    seq
.......................................................................cuccgcggacccugagcgcaU.........................   1       1    seq
.......................................................................cuccgcggacccugagcgcaa.........................   6       0    seq
.......................................................................cuccgcggacccugagcgcaag........................   5       0    seq
.......................................................................cuccgcggacccugagcgcaaU........................   2       1    seq
.......................................................................cuccgcggacccugagcgcaagU.......................   5       1    seq
.......................................................................cuccgcggacccugagcgNaaga.......................   1       1    seq
.......................................................................cuccgcggacccugagcgcaaAa.......................   1       1    seq
.......................................................................cuccgcggCcccugagcgcaaga.......................   1       1    seq
.......................................................................cuccgcggacccugagcgcaaga.......................   12      0    seq
.......................................................................cuccgcggacccugagcgcaagagU.....................   1       1    seq
.......................................................................cuccgcggacccugagcgcaagagc.....................   1       0    seq
.......................................................................cuccgcggacccugagcgcaagagcca...................   1       0    seq
.......................................................................uccgcggacccugagcgc............................   13      0    seq
.......................................................................uccgcggacccugagcgcU...........................   5       1    seq
.......................................................................uccgcggacccugagcgAa...........................   1       1    seq
.......................................................................uccgcggacccugagcgca...........................   19      0    seq
.......................................................................Gccgcggacccugagcgca...........................   1       1    seq
.......................................................................uccgcggacccugagcgcaU..........................   14      1    seq
.......................................................................uccgcggacccugagcgAaa..........................   1       1    seq
.......................................................................uccgcggacccuUagcgcaa..........................   2       1    seq
.......................................................................uGcgcggacccugagcgcaa..........................   1       1    seq
.......................................................................uccgcggacccugagcgcaG..........................   1       1    seq
.......................................................................uccgcggaGccugagcgcaa..........................   1       1    seq
.......................................................................uccgcggacccugagcUcaa..........................   1       1    seq
.......................................................................uccgcggacccugagcgcaa..........................   85      0    seq
.......................................................................uccgcggacccugagcgcaaA.........................   17      1    seq
.......................................................................uccgcggacccugagcgcaag.........................   33      0    seq
.......................................................................uccgcggacccuUagcgcaag.........................   1       1    seq
.......................................................................uccgcggaccGugagcgcaag.........................   1       1    seq
.......................................................................uccgcggacccugagcgcaaU.........................   22      1    seq
.......................................................................uccgcggacccugagcgNaga.........................   1       1    seq
.......................................................................uccgcggacccugagcgcaaga........................   83      0    seq
.......................................................................uccgcggacccugagcgcaagU........................   32      1    seq
.......................................................................uccgcggacccugagcgcaaUa........................   1       1    seq
.......................................................................uccgcggacccugagcgcaaAa........................   9       1    seq
.......................................................................uccgcggacGcugagcgcaaga........................   1       1    seq
.......................................................................uccgcggacAcugagcgcaaga........................   1       1    seq
.......................................................................uccgcggacccugagcgcaaAag.......................   1       1    seq
.......................................................................uccgcggacccugagcgcaagaU.......................   6       1    seq
.......................................................................uccgcggacccugagcgcaagag.......................   16      0    seq
.......................................................................uccgcggacccugagcgcaagaA.......................   9       1    seq
.......................................................................uccgcggacccugagcgcaUgag.......................   1       1    seq
.......................................................................uccgGggacccugagcgcaagag.......................   1       1    seq
.......................................................................uccgcggacccugagcgcaagagA......................   5       1    seq
.......................................................................uccgcggacccugagcgcaagagU......................   11      1    seq
.......................................................................uccgcggacccugagcgcaagagc......................   13      0    seq
.......................................................................uccgcggacccugagcgcaagagcU.....................   2       1    seq
.......................................................................uccgcggacccugagcgcaagagcc.....................   1       0    seq
.......................................................................ccgcggacccugagcgca............................   1       0    seq
.......................................................................ccgcggacccugagcgcaa...........................   5       0    seq
.......................................................................ccgcggacccugagcgcaag..........................   24      0    seq
```

Star Mature

```
cucccgccgcuccuccacgcucgugccgcuccccccccgcgcucccaguugacgcucugggccgccaccuccgcggacccugagcgcaagagccaagccgccagcgcugcg
.......................................................................ccgcggacccugagcgcaaU.....................   3     1     seq
.......................................................................ccgcggacccugagcgcaaga....................   138   0     seq
.......................................................................ccgcggaGccugagcgcaaga....................   1     1     seq
.......................................................................ccgcggacccugagcgcaagU....................   47    1     seq
.......................................................................ccgcggaccAugagcgcaaga....................   1     1     seq
.......................................................................ccgcggacccugagcgcaagaA...................   20    1     seq
.......................................................................ccgcggacccugagcgcaGgag...................   1     1     seq
.......................................................................ccgcggacccugagcgcaagag...................   48    0     seq
.......................................................................ccgcggacccugagcgcaagaU...................   16    1     seq
.......................................................................ccgcggacccCgagcgcaagagc..................   1     1     seq
.......................................................................ccNcggacccugagcgcaagagc..................   1     1     seq
.......................................................................ccgcggacccugagcgcaagagc..................   38    0     seq
.......................................................................ccgcggacccugagcgcaagagA..................   14    1     seq
.......................................................................ccgcggacccugagcgcaagagU..................   19    1     seq
.......................................................................ccgcggacccugagcgcaagagcU.................   7     1     seq
.......................................................................ccgcggacccugagcgcaagagcA.................   2     1     seq
.......................................................................ccgcggacccugagcgcaagagcG.................   1     1     seq
.......................................................................ccgcggacccugagcgcaagagcca................   3     0     seq
.......................................................................ccgcggacccugagcgcaagagccaagccg...........   1     0     seq
.......................................................................cgcggacccugagcgcaaga....................   1     0     seq
.......................................................................cgcggacccugagcgUaagag...................   1     1     seq
.......................................................................cgcggacccugagcgcaagagc..................   2     0     seq
.......................................................................cgcggacccugagcgcaagagcc.................   1     0     seq
.......................................................................cgcggacccugagcgcaagagccaagcc............   1     0     seq
.......................................................................cgcggacccugagcgcaagagccaagccgccagcgc....   1     0     seq
.......................................................................gcggacccugagcgcaag......................   1     0     seq
.......................................................................gcggacccugagcgcaaga....................   2     0     seq
.......................................................................gcggacccugagcgcaagag...................   2     0     seq
.......................................................................gcggacccugagcgcaagagc..................   5     0     seq
.......................................................................gcggacccugagcgcaagagcc.................   2     0     seq
.......................................................................gcggacccugagcgcaagagccaagccgccagcgcu...   1     0     seq
.......................................................................cggacccugagcgcaagagc...................   1     0     seq
.......................................................................cggacccugagcgcaagagccaagccgcc..........   1     0     seq
.............................................................................acccugagcgcaagagcc................   1     0     seq
...............................................................................cccugagcgcaagagccaagc............   1     0     seq
.................................................................................cugagcgcaagagccaagccg..........   1     0     seq
...................................................................................gagcgcaagagccaagccg..........   1     0     seq
```

novel-mir-candidate-384

Provisional ID	:	chr17_36731
Score total	:	1.5
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2
Score for randfold	:	-2.2
Score for cons. seed	:	3
Total read count	:	31
Mature read count	:	27
Loop read count	:	2
Star read count	:	2

Star **Mature**

```
5'- ggugcccagggcaaggccgggauugugggggaaggagucuccagugggguacugccugacccugcccucucuuccucccaacauccuggccugucugaaggugggagaaagccug  -3'   obs
    ggugcccagggcaaggccgggauugugggggaaggagucuccagugggguacugccugacccugcccucucuuccucccaacauccuggccugucugaaggugggagaaagccug        exp
    ((((((..((((((.(((((((.(((.((((.((((........((((........)))).....)))).)))).)))).))))))))))))...)))).......)))..   reads     mm        sample
    ................ccgggauugugggggaaggaU.......................................................................   1         1         seq
    ................ccgggauugugggggaaggaUu......................................................................   1         1         seq
    ................................agucuccagugggguacugc........................................................   1         0         seq
    ......................................ccagugggguacugccugacccu...................................................   1         0         seq
    ......................................................................uccucccaacauccuggccugu...................   1         0         seq
    ......................................................................ccucccaacauccuggccug....................   1         0         seq
    ......................................................................ccuUccaacauccuggccugu...................   1         1         seq
    ......................................................................ccucccaacauGcuggccugu...................   1         1         seq
    ......................................................................ccucccaacauccuggccugu...................   10        0         seq
    ......................................................................ccucccaacauccuggccugA...................   1         1         seq
    ......................................................................ccucccaacauccuggccuguc..................   1         0         seq
    ......................................................................ccucccaacauccuggccuguU..................   2         1         seq
    ......................................................................ccucccaacauccuggccugucuU................   1         1         seq
    ......................................................................cucccaacauccuggccugu....................   1         0         seq
    ......................................................................cucccaacauccuggccuguU...................   1         1         seq
    ......................................................................cucccaacauccuggccugucu..................   1         0         seq
    ......................................................................cucccaacauccuggccugucA..................   2         1         seq
    ......................................................................cucccaacauccuggccugucuU................   2         1         seq
    .......................................................................cccaacauccuggccugucugaag...............   1         0         seq
    ........................................................................caacauccuggccugucuga.................   1         0         seq
    ........................................................................caacauccuggccugucugaagU..............   1         1         seq
```

novel-mir-candidate-287

Provisional ID	:	chr19_40576
Score total	:	1.9
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	22
Mature read count	:	22
Loop read count	:	0
Star read count	:	0

Mature Star

```
5'- augcugagcuggccacccggugcccauggcucgauccucagcucuaccuccaucuugcugaugauagggccaugggccaccaggcuccuggggagcagcgauuccaccauag  -3'   exp
    ..((((..((..(((((.(((.(((((((((((.(((.(((((.............)))))..)))..)))))))))))..)))..))....)))))..))))............   reads   mm   sample
    ....................uagcccauggcucgauccucagc.......................................................................   19      0    seq
    ....................agcccauggcucgauccucagc........................................................................   3       0    seq
    ..........................................................................................uccuggggagcagcgauu.........   1       0    seq
```

novel-mir-candidate-31

Provisional ID	:	chrX_45193
Score total	:	151.3
Score for star read(s)	:	3.9
Score for read counts	:	148.5
Score for mfe	:	1.8
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	303
Mature read count	:	227
Loop read count	:	0
Star read count	:	76

Star Mature

```
5'- ggggaccaggaaaugacagcuaugcguaguuggggaggaccuaggcaggggugcugguaagcagcugugccgauggccugccucugccuacaggagcacacauccaccc  -3'   obs
    ggggaccaggaaaugacagcuaugcguaguuggggaggaccuaggcaggggugcugguaagcagcugugccgauggccugccucugccuacaggagcacacauccaccc        exp
    (((...((.....)).((((((....)))))))(.....))((((((((((((((((....(((....)))...)))))).)))))))))))..(((.......))).)))   reads   mm   sample
    ......................................accuaggcaggggugggcugguaa.......................................   2       0    seq
    ......................................accuaggcaggggugggcugguaag......................................   1       0    seq
    ......................................accuaggcaggggugggcugguaagU.....................................   1       1    seq
    ......................................ccuaggcaggggugggcuggua.........................................   2       0    seq
    ......................................ccuaggcaggggugggcugguaa........................................   2       0    seq
    ......................................ccuaggcaggggugggcugguaU........................................   1       1    seq
    ......................................ccuaggcaggggugggcugguaaU.......................................   1       1    seq
    ......................................ccuaggcaggggugggcugguaag.......................................   5       0    seq
    ......................................ccuaggcaggggugggcugNuaag.......................................   1       1    seq
    ......................................ccuaggcaggggugggcugguaagU......................................   8       1    seq
    ......................................ccuaggcaggggugggcugguaagc......................................   1       0    seq
    ......................................ccuaggcaggggugggcugguaagA......................................   1       1    seq
    ......................................cuaggcaggggugggcugguaa........................................   1       0    seq
    ......................................cuaggcaggggugggcugguaag.......................................   3       0    seq
    ......................................cuaggcaggggugggcugguaagU......................................   2       1    seq
    ......................................cuaggcaggggugggcugguaagA......................................   1       1    seq
    ......................................uaggcaggggugggcuggua..........................................   2       0    seq
    ......................................uaggcaggggugggcugguaag........................................   7       0    seq
    ......................................uaggcaggggugggcugguaagA.......................................   9       1    seq
    ......................................uaggcaggggugggcugguaagc.......................................   11      0    seq
    ......................................uaggcaggggugggcugguaagU.......................................   8       1    seq
    ......................................uaggcaggggugggcugguaagUa......................................   2       1    seq
    ......................................uaggcaggggugggcugguaagcU......................................   5       1    seq
    ......................................uaggcaggggugggcugguaagAa......................................   2       1    seq
    ......................................uaggcaggggugggcugguaagcaA.....................................   1       1    seq
    ......................................uaggcaggggugggcugguaagcagcugugccgauggccugccucug...............   1       0    seq
    ..........................................................agcugugccgauggccugccucugccuacU..............   1       1    seq
    ..........................................................agcugugccgauggccugccucugccuaca..............   2       0    seq
    ............................................................cugugccgauggccugccucugcc....................   1       0    seq
    ............................................................ugugccgauggccugccucugA......................   1       1    seq
    ............................................................ugugccgauggccugccucugcc.....................   2       0    seq
    ............................................................ugugccgauggccugccucugccu....................   2       0    seq
    ............................................................gugccgauggccugccucugccuacag.................   1       0    seq
```

Star Mature

```
ggggaccaggaaaugacagcuaugcguaguuggggaggaccuaggcaggggugcugguaagcagcugugccgauggccugccucugccuacaggagcacacauccaccc
.......................................................................ccgauggccugccucugcc.......................   5       0    seq
.......................................................................cNgauggccugccucugccu......................   1       1    seq
.......................................................................ccgauggccugccucugccu......................   35      0    seq
.......................................................................ccgauggccugccucugccuU.....................   2       1    seq
.......................................................................ccgauggccugccucugccua.....................   2       0    seq
.......................................................................ccgauggccugccucugccuac....................   3       0    seq
.......................................................................ccgauggccugccucugccuaU....................   13      1    seq
.......................................................................Gcgauggccugccucugccuaca...................   1       1    seq
.......................................................................ccgauggccugccucugccuacC...................   1       1    seq
.......................................................................ccgauggccugccucugccuaUa...................   2       1    seq
.......................................................................ccgauggccugccucugccuacU...................   14      1    seq
.......................................................................ccgauggccugccucugccuaca...................   56      0    seq
.......................................................................ccgauggccugccucugccuacG...................   1       1    seq
.......................................................................ccgauggccuAccucugccuaca...................   1       1    seq
.......................................................................ccgauggccugccucugccuacCg..................   1       1    seq
.......................................................................ccgauggccugccucugccuacag..................   3       0    seq
.......................................................................ccgauggccugccucugccuacagA.................   2       1    seq
.......................................................................ccgauggccugccucugccuacagU.................   1       1    seq
.......................................................................cUauggccugccucugcc........................   1       1    seq
.......................................................................cgauggccugccucugcc........................   3       0    seq
.......................................................................cgauggccugccucugccu.......................   11      0    seq
.......................................................................cgauggccugccucugccua......................   1       0    seq
.......................................................................cgauggccugccucugccuaU.....................   3       1    seq
.......................................................................cgauggccugccucugccuac.....................   5       0    seq
.......................................................................cgauggccugccucugccuacU....................   12      1    seq
.......................................................................cgauggccugccucugccuaAa....................   1       1    seq
.......................................................................cgauggccugccucugccuaGa....................   3       1    seq
.......................................................................cgauggUcugccucugccuaca....................   1       1    seq
.......................................................................cgauggccugccucugccuaca....................   34      0    seq
.......................................................................cgauggccugccucugccuacag...................   1       0    seq
.......................................................................cgauggccugccucugccuacagU..................   1       1    seq
.......................................................................cgauggccugccucugccuacagA..................   2       1    seq
.......................................................................gauggccugccucugccu........................   1       0    seq
.......................................................................gauggccugccucugccuacagA...................   1       1    seq
..........................................................................auggccugccucugccuacagA.................   1       1    seq
...........................................................................uggccugccucugccuacagA................   1       1    seq
```

novel-mir-candidate-339

Provisional ID	:	chr1_1462
Score total	:	1.8
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	169
Mature read count	:	169
Loop read count	:	0
Star read count	:	0

Mature **Star**

```
5'- ugcaaauaaguaacauugaacacucaucaacugugccugacaugccaagugccacaugucaggcacagacaaugagugugcauaauuacuuauuuagucuuuaccacagg  -3'   exp
    .(((((((((((..((((.(((((((((...(((((((((((((((.........)))))))))))))))...)))))))).))))).))))))))))).))).............
    .......aaguaacaCaugaacacu.......................................................................................  reads     mm        sample
    ....................acacucaucaacugugccug.........................................................................  1         1         seq
    ....................acacucaucaacugugccuga........................................................................  1         0         seq
    ....................acacucaucaacugugccuga........................................................................  20        0         seq
    ....................acacucaucaacugugccugaA.......................................................................  1         1         seq
    ....................Ccacucaucaacugugccugac........................................................................  1         1         seq
    ....................acacucaucaacugugccugac........................................................................  35        0         seq
    ....................acacucaucaacugugccNgaca.......................................................................  2         1         seq
    ....................acacucaucaacugugccugacG.......................................................................  2         1         seq
    ....................acacCcaucaacugugccugaca.......................................................................  1         1         seq
    ....................acacucaucaacugugccugaAa.......................................................................  2         1         seq
    ....................acacucaucaacugugAcugaca........................................................................  1         1         seq
    ....................acacucaucaacugugccugaca........................................................................  89        0         seq
    ....................acacucaucaacugugccugacU.......................................................................  7         1         seq
    ....................acacucaucaacugugcAugaca........................................................................  1         1         seq
    ......................acucaucaacugugccugaca........................................................................  6         0         seq
```

novel-mir-candidate-126

Provisional ID	:	chr19_40009
Score total	:	36
Score for star read(s)	:	3.9
Score for read counts	:	29.7
Score for mfe	:	1.4
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	70
Mature read count	:	55
Loop read count	:	0
Star read count	:	15

```
                                 Star                          Mature
5'- aaaaagacugggaacagcaugugcaaaggcccccaggguggggaugaggcuugggaaaaauagaagcagcccucuuggccucacccucucuagcugugcagagagauugcagu  -3'   obs
    aaaaagacugggaacagcaugugcaaaggcccccagggugggaugaggcuugggaaaaauagaagcagcccucuuggccucacccucucuagcugugcagagagauugcagu        exp
    ......((((.((.(....(.((((..(((...(((((.(((.(((((((.(((.............)))....)))))))))).))))).))))).)..)).)).))))   reads     mm        sample
    aaaaagacugAgaacagc...............................................................................   1         1         seq
    ...............................cccaggguggggaugaggcu...............................................   2         0         seq
    ...............................cccaggguggggaugaggcuugggg..........................................   1         0         seq
    ...............................cccaggguggggaugaggcuuggga..........................................   2         0         seq
    ...............................cccaggguggggaugaggcuuggga U........................................   1         1         seq
    ...............................cccaggguggggaugaggcuuggga Ga.......................................   1         1         seq
    ................................ccaggguggggaugaggcu...............................................   1         0         seq
    ................................ccaggguggggaugaggcuuggga..........................................   1         0         seq
    .................................caggguggggaugaggcuugggg..........................................   1         0         seq
    .................................caggguggggaugaggcuuggg U.........................................   1         1         seq
    .................................caggguggggaugaggcuuggga..........................................   2         0         seq
    .................................caggguggggaugaggcuuggga U........................................   1         1         seq
    .................................caggguggggaugaggcuuggga a........................................   1         0         seq
    ......................................................................ccucuuggccucacccucucuag.....   1         0         seq
    ......................................................................ccucuuggccucacccucucuag U...   2         1         seq
    ......................................................................ccucuuggccucacccucucuagc....   1         0         seq
    ......................................................................ccucuuggccucacccucucuagc Uu.   1         1         seq
    .....................................................................ucuuggccucacccucucuag.......   3         0         seq
    .....................................................................ucuuggccucacccucucuag A.....   4         1         seq
    .....................................................................ucuuggccucacccucucuag U.....   14        1         seq
    .....................................................................ucuuggccucacccucucuag Uu....   1         1         seq
    ......................................................................uuggccucacccucucua.........   1         0         seq
    ......................................................................uuggccucacccucucuag........   2         0         seq
    .....................................................................uuggccucacccucucuagc.......   1         0         seq
    .....................................................................uuggccucacccucucuag U......   2         1         seq
    .....................................................................uuggccucacccucucuag A......   8         1         seq
    .....................................................................uuggccucacccucucuag Au.....   4         1         seq
    .....................................................................uuggccucacccucucuag Uu.....   10        1         seq
```

novel-mir-candidate-6

Provisional ID	:	chr18_39201
Score total	:	652.1
Score for star read(s)	:	3.9
Score for read counts	:	646.1
Score for mfe	:	1.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	1279
Mature read count	:	1139
Loop read count	:	0
Star read count	:	140

Mature **Star**

```
5'- gagacgcuuuguuugcuaacuucgaaagcggcuucggcugccucggccgcuuucgaagccacuccacaaaacacgccuucggucggguuuaacccuaccuccccccccgc  -3'   obs
    gagacgcuuuguuugcuaacuucgaaagcggcuucggcugccucggccgcuuucgaagccacuccacaaaacacgccuucggucggguuuaacccuaccuccccccccgc        exp
    (((.((.(((((.......(((((((((((((..((...)).)))))))))))))).....)))))...)).))).(((.((.......)).)))...........
```

reads	mm	sample
.....uguuugcuaacuucgaaagcgg.....	1	0	seq
.....guuugcuaacuucgaaagcggcuuc.....	1	0	seq
.....aacuucgaaagcggcuuc.....	1	0	seq
.....aacuucgaaagcggcuucU.....	1	1	seq
.....aacuucgaaagcggcuucgg.....	1	0	seq
.....aacuucgaaagcggcuucggA.....	1	1	seq
.....aacuucgaaagcggcuucggc.....	4	0	seq
.....aacuucgaaagcggcuucggG.....	1	1	seq
.....aacuucgaaagcggcuucggU.....	1	1	seq
.....aacuucGaagcggcuucggcu.....	2	1	seq
.....Uacuucgaaagcggcuucggcu.....	1	1	seq
.....aacuucgaaagcggcuucggcu.....	14	0	seq
.....aacuucgaaagcggcuucggcuA.....	1	1	seq
.....aacuucgaaagcggcuucggcuU.....	6	1	seq
.....aacuucgaaagcggcuucggcug.....	1	0	seq
.....aacuucgaaagcggcuucggcugccucggccgcu.....	1	0	seq
.....acuucgaaagcggcuucggc.....	1	0	seq
.....acuucgaaagcggcuucggcu.....	6	0	seq
.....acuucgaaagcggcuucggcuU.....	3	1	seq
.....cuucgaaagcggcuucgg.....	11	0	seq
.....cuucgaaagcggcuucggc.....	12	0	seq
.....cuucgaaagcggcuucggcG.....	5	1	seq
.....cuucgaaagcggcuucggcA.....	7	1	seq
.....cuucgaaagcggcuucggcu.....	562	0	seq
.....cuucgaaagcggcAucggcu.....	1	1	seq
.....cuucgaaagcAgcuucggcu.....	1	1	seq
.....cuucgaaagcggcCucggcu.....	1	1	seq
.....cuucgaaagUggcuucggcu.....	1	1	seq
.....Guucgaaagcggcuucggcu.....	1	1	seq
.....cuucgaaagcggcuucggcuU.....	433	1	seq
.....cuucgaaagcggcuucggcuA.....	5	1	seq
.....cuucgaaagcggcuucggcuUc.....	1	1	seq
.....uucgaaagcggcuucggc.....	8	0	seq

Mature **Star**

```
gagacgcuuuguuugcuaacuucgaaagcggcuucggcugccucggccgcuuucgaagccacuccacaaaacacgccuucggucggguuuaacccuaccuccccccccgc
```

reads	mm	sample
.....uucgaaagcggcuucggcu.....	20	0	seq
.....uCcgaaagcggcuucggcu.....	1	1	seq
.....uucgaaagcggcuucggcuU.....	20	1	seq
.....uucgaaagcggcuucggcug.....	1	0	seq
.....uucgaaagcggcuucggcuA.....	2	1	seq
.....uucgaaagcggcuucggcugccucggc.....	2	0	seq
.....ucgaaagcggcuucggcu.....	1	0	seq
.....aagcggcuucggcugccucggcc.....	1	0	seq
.....agcggcuGcggcugccucggcc.....	1	1	seq
.....agcggcuucggcugccucggcc.....	3	0	seq
.....agcggcuucggcugccucggccg.....	1	0	seq
.....gcggcuucggcugccucggccgcuuucgaagc.....	1	0	seq
.....cggcuucggcugccucggccg.....	9	0	seq
.....gcuucggcugccucggccg.....	1	0	seq
.....cuucggcugccucggccgcu.....	1	0	seq
.....uucggcugccucggccgcu.....	1	0	seq
.....gcugccucggccgcuuucgaagc.....	2	0	seq
.....gcugccucggccgcuuucgaagcc.....	1	0	seq
.....gcugccucggccgcuuucgaagccacuc.....	1	0	seq
.....ugccucggccgcuuucga.....	1	0	seq
.....ugccucggccgcuuucgaag.....	6	0	seq
.....ugccucggccgcuuucgaaU.....	1	1	seq
.....uUccucggccgcuuucgaagc.....	1	1	seq
.....ugccucggccgcuuucgaagc.....	2	0	seq
.....ugccucggccgcuuucgaagU.....	1	1	seq
.....ugccucggccgcuuucgaagcU.....	3	1	seq
.....ugccucggccgcuuucgaagcA.....	2	1	seq
.....ugccucggccgcuuucgaagcc.....	25	0	seq
.....uUccucggccgcuuucgaagcc.....	2	1	seq
.....ugccucggccgcuuucgaagccU.....	8	1	seq
.....ugccucggccgcuuucgaagccaU.....	1	1	seq
.....gccucggccgcuuucgaagcc.....	1	0	seq
.....gccucggccgcuuucgaagccU.....	9	1	seq
.....ccucggccgcuuucgaagc.....	7	0	seq
.....ccucggccgcuAucgaagcc.....	1	1	seq
.....ccucggccgcuuucgaagcU.....	6	1	seq
.....ccucggccgcuuuAgaagcc.....	1	1	seq
.....ccucggccgcuuucgaagcc.....	30	0	seq
.....ccucggccgcuuucgaagccU.....	19	1	seq
.....ccucggccgcuuucgaagcca.....	5	0	seq
.....cucggccgcuuucgaagc.....	5	0	seq
.....cucggccgcuuucgaagcca.....	1	0	seq
.....ucggccgcuuucgaagcc.....	1	0	seq
.....ucggccgcuuucgaagccU.....	1	1	seq
.....gaagccacuccacaaaacacgccu.....	1	0	seq
.....acuccacaaaacacgccuucggucggu.....	1	0	seq
.....cuccacaaaacacgccuucggucggu.....	1	0	seq
.....cuccacaaaacacgccuucggucgguu.....	1	0	seq
.....uccacaaaacacgccuucggucggguu.....	1	0	seq
.....ccacaaaacacgccuucggucggguuuaacccuaccu.....	1	0	seq
.....aAaaaacacgccuucggucggguu.....	1	1	seq
.....Aaaaacacgccuucgguc.....	1	1	seq
.....Aaaaacacgccuucggucg.....	1	1	seq
.....Aaaaacacgccuucggucgg.....	1	1	seq
.....Aaaaacacgccuucggucggu.....	2	1	seq
.....aaaacacgccuucggucgg.....	1	0	seq
.....aaaacacgccuucggucggu.....	2	0	seq
.....aacacgccuucggucggguuuaacccuaccuc.....	1	0	seq
.....acacgccuucggucggguuuaaccc.....	1	0	seq
.....cacgccuucggucggguuuNac.....	1	1	seq
.....cacgccuucggucggguuuaacc.....	2	0	seq
.....acgccuucggucggguuuac.....	2	0	seq
.....acgccuucggucggguuuaacc.....	11	0	seq
.....acgccuucggucggguuuaaccc.....	1	0	seq
.....acgccuucggucggguuuaacccu.....	2	0	seq
.....acgccuucggucggguuuaacccua.....	1	0	seq
.....acgccuucggucggguuuaacccuaccu.....	3	0	seq
.....acgccuucgAucggguuuaacccuaccuc.....	1	1	seq
.....cgccuucggucggguuuaaccc.....	1	0	seq
.....cgccuucggucggguuuaacccu.....	1	0	seq

```
                 Mature     Star
gagacgcuuuguuugcuaacuucgaaagcggcuucggcugccucggccgcuuucgaagccacuccacaaaacacgccuucggucggguuuaacccuaccucccccccccgc
.......................................................................cgccuucggucggguuuaacccuacc...........   2         0         seq
.......................................................................cgccuucggucggguuuaacccuaccucccc......   1         0         seq
.......................................................................gccuucggucggguuuaacccu..............   5         0         seq
.......................................................................gccuucggucggguuuaacccuac............   7         0         seq
.......................................................................gccuucggucggguuuaacccuaU............   1         1         seq
.......................................................................gccuucggucggguuuaacccuaccu..........   2         0         seq
.......................................................................gccuucggucggguuuaacccuaccucccc......   1         0         seq
.......................................................................ccuucggucggguuuaaccc................   1         0         seq
.......................................................................ccuucggucggguuuaacccuac............   1         0         seq
.......................................................................ccuucggucggguuuaacccuaccucccc.......   1         0         seq
.......................................................................cuucggucggguuuaacccu................   1         0         seq
.......................................................................cuucggucggguuuaacccuac............   6         0         seq
.......................................................................uucggucggguuuaacccuac............   13        0         seq
.......................................................................uucggucggguuuaacccuaccucccc......   1         0         seq
.......................................................................ucggucggguuuaacccuCc............   1         1         seq
.......................................................................ucggucggguuuaacccuac............   10        0         seq
.......................................................................gucgguuuaacccuaccu..........   3         0         seq
.......................................................................gucgguuuaacccuaccucc........   2         0         seq
.......................................................................gucgguuuaacccuaccucccc......   1         0         seq
.......................................................................cgguuuaacccuaccucccc......   1         0         seq
.......................................................................cgguuuaacccuaccucccccccc...   1         0         seq
.......................................................................acccuaccucccccccccgc   1         0         seq
```

novel-mir-candidate-213

Provisional ID	:	chr8_21041
Score total	:	4.8
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.5
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	394
Mature read count	:	394
Loop read count	:	0
Star read count	:	0

Mature **Star**

```
5'- aacucuuaauagaaugacucaggcucagucccccuccaugaugggcuccccacaagcauguggcagcccaugaggucagugugcucccuggggaauagaaaaugaaga  -3'   exp
    ...(((....)))((..(((((((.((.(..((((....(((((((.(((((((....)))))).)))))))))))..).).)).)...)))))..)).............   reads     mm        sample
    ..................ucaUgcucagucccccucc.......................................................................   1         1         seq
    ..................ucaggcucagucccccuUc.......................................................................   1         1         seq
    ..................ucaggcucagucccccucU.......................................................................   1         1         seq
    ..................ucaggcucagucccccucc.......................................................................   156       0         seq
    ..................ucaggcucagucccccucca......................................................................   4         0         seq
    ..................ucaggcucagucccccucAa......................................................................   1         1         seq
    ..................ucaggcucagucccccuccU......................................................................   10        1         seq
    ..................ucaggcucagucccccuccau.....................................................................   3         0         seq
    ..................ucaggcucagucccccuccaC.....................................................................   1         1         seq
    ..................ucaggcucagucccccucCu......................................................................   181       1         seq
    ..................ucaggcucagucccccuccaA.....................................................................   9         1         seq
    ..................ucaggcucagucccccuccaG.....................................................................   1         1         seq
    ..................ucaggcucagucccccucCu......................................................................   8         1         seq
    ..................ucaggcucagucccccuccauC....................................................................   1         1         seq
    ..................ucaggcucagucccccuccaGg....................................................................   5         1         seq
    ..................ucaggcucagucccccuccauU....................................................................   6         1         seq
    ..................ucaggcucagucccccuccauA....................................................................   1         1         seq
    ..................ucaggcucagucccccucCug.....................................................................   1         1         seq
    ..................ucaggcucagucccccucCuga....................................................................   2         1         seq
    ..................ucaggcucagucccccuccauAau..................................................................   1         1         seq
```

novel-mir-candidate-321

Provisional ID	:	chr22_44447
Score total	:	1.8
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	22
Mature read count	:	22
Loop read count	:	0
Star read count	:	0

Mature Star

```
5'- gagggugugcagggcccaugguacaggccugggggcuucggucccuggggacuguaagcucuggguuaugaagugucgugucaccucggcaaguggcacgucccaca  -3'    exp
    ..(((((((((..((((((.(((((((.(((.(((((....)))))).))).))))..))).)))))).....(((((.......)))))....)))))).))))...   reads     mm        sample
    ..................augguacaggccugggggg.......................................................................   1         0         seq
    ..................augguacaggccugggggA.......................................................................   7         1         seq
    ..................Cugguacaggccugggggc.......................................................................   2         1         seq
    ..................augguacaggccugggggAu......................................................................   3         1         seq
    ..................augguacaggccugggggAuu.....................................................................   1         1         seq
    ..................ugguacaggccugggggcC.......................................................................   1         1         seq
    ..................ugguacaggccugggggAu.......................................................................   2         1         seq
    ..................ugguacaggccugggggAuu.....................................................................   5         1         seq
```

novel-mir-candidate-165

Provisional ID	:	chr9_22756
Score total	:	20.3
Score for star read(s)	:	3.9
Score for read counts	:	13.4
Score for mfe	:	2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	38
Mature read count	:	35
Loop read count	:	1
Star read count	:	2

```
                                Star                                Mature
5'- cugagugaggggaggaaaggacagaagugggaggagacugguggaaaggggaccccggaucugaccucggugcucucucccgucucuuccaggcuccccccuacuauuauagcg  -3'   obs
    cugagugaggggaggaaaggacagaagugggaggagacugguggaaaggggaccccggaucugaccucggugcucucucccgucucuuccaggcuccccccuacuauuauagcg        exp
    ...((((.(((((((.............((((((((((..(.(((.((((.(((..(((......)).)))).)))).))))))))))))))..)))))).)))).........   reads     mm        sample
    ........................aaguggaggUgacuggug.......................................................................   1         1         seq
    ..........................uggaggagacugguggaaag.......................................................................   1         0         seq
    ..........................uggaggagacugguggaaagggA....................................................................   1         1         seq
    ............................................aaaggggaccccggaucugaccucggugcu.......................................   1         0         seq
    ...................................................ccggaAcugaccucggug.......................................   1         1         seq
    ....................................................ccucggugcucucucccgucucuucca.....................................   1         0         seq
    ......................................................................ugcucucucccgucucuucA.......................   1         1         seq
    ......................................................................ugcucucucccgucucuucca.......................   2         0         seq
    ....................................................ugcuUucucccgucucuucca.....................................   1         1         seq
    ......................................................................ugcucucucccgucucuuccag......................   5         0         seq
    ......................................................................ugcucucucccgucucuuccagU.....................   5         1         seq
    ......................................................................ugcucucucccgucucuuccagA.....................   21        1         seq
```

novel-mir-candidate-342

Provisional ID	:	chr19_39977
Score total	:	1.8
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	49
Mature read count	:	48
Loop read count	:	0
Star read count	:	1

Star Mature

```
5'- gggugggggcaucauuggggggcugucugcaguggauggggagggacacggcuggugggggaucgggcucagcugggccuuucugucucugcaggguagcucguaagcugggucau  -3'   obs
    gggugggggcaucauuggggggcugucugcaguggauggggagggacacggcuggugggggaucgggcucagcugggccuuucugucucugcaggguagcucguaagcugggucau        exp
    .......(((.....(((.((((((((((((((.(((..(((((((((.(.(((((((((.........)).)))))))).)))))))).))))))))))))))).)))....))).. reads   mm   sample
    ......................ucugcaguggauggggagggacaU.......................................................................  1      1    seq
    ...........................................................uggggaucgggcucagcugggccuuuc...............................  1      0    seq
    ..............................................................gcugggccuuucugucucugcagU...................................  1      1    seq
    ...............................................................cugggccuuucugucucugcagA...................................  1      1    seq
    ...............................................................cugggccuuucugucucugcagU...................................  16     1    seq
    ..............................................................cugggccuuucugucucugcagCu..................................  1      1    seq
    ...............................................................cugggccuuucugucucugcagUu..................................  2      1    seq
    ................................................................ugggccuuucugucucugcag....................................  2      0    seq
    ..............................................................ugggccuuucugucucugcagU...................................  19     1    seq
    ...............................................................ugggccuuucugucucugcagA...................................  3      1    seq
    ...............................................................ugggccuuucugucucugcagUu..................................  3      1    seq
    ..........................................................................................guagcucguaagcugguc..  1      0    seq
```

novel-mir-candidate-230

Provisional ID	:	chr9_23396
Score total	:	2.4
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.7
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	57
Mature read count	:	54
Loop read count	:	0
Star read count	:	3

```
                                 Star                          Mature
5'- uugcuauagcucuuuguucugggggauuuggggaggccagggaaggggcugugagcaacgaggguuccagcaucuucccaagccucccuccauccccagggcugggcugcuug  -3'    obs
    uugcuauagcucuuuguucugggggauuuggggaggccagggaaggggcugugagcaacgaggguuccagcaucuucccaagccucccuccauccccagggcugggcugcuug         exp
    ......((((((...((((((((((((..((((((((..((((((((.((((.((((......)))))))).)))))))..)))))))).))))))))))))).))))))....   reads      mm         sample
    ............................uUgggaggccagggaagg.............................................................   1          1          seq
    ............................uggggaggccagggaagggg...........................................................   1          0          seq
    ............................uggggaggccagggaaggggc..........................................................   1          0          seq
    ...............................................ggcugugagcaacgaggguuccagcaucuucc...................................   1          0          seq
    ...................................................................caucuucccaagccucccucc......................   2          0          seq
    ...................................................................caucuucccaagccucccucca.....................   6          0          seq
    ...................................................................caucuucccaagccucccucccaA...................   3          1          seq
    ...................................................................caucuucccaagccucccucccau...................   18         0          seq
    ...................................................................caucuucccaagccucccucccauG..................   1          1          seq
    ...................................................................caucuucccaagccucccucccauA..................   4          1          seq
    ...................................................................caucuucccaagccucccucccauU..................   20         1          seq
```

novel-mir-candidate-201

Provisional ID	:	chr1_1209
Score total	:	5.3
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	26
Mature read count	:	26
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- ucgcaccucuucccccucuuuugcuugaguccuuaccuggcagggugaugagccugcuccugagaacucuaccugcuggugggcugugggguuggaggguggcagggg  -3'    exp
    .....(((((.(((((((((...((((.((((((.(((.((((((.....(((.((.......))..)))..))))))))))))))..))))).))))))).)).))))))   reads     mm      sample
    ....................uugcuugaguccuuaccAg.............................................................   1         1       seq
    ......................................................................accugcuggugggcugu....................   25        0       seq
    ......................................................................accugcuggGggggcugu....................   1         1       seq
```

novel-mir-candidate-426

Provisional ID	:	chr12_28077
Score total	:	1.2
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.5
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	65
Mature read count	:	65
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- augucuguccugcagaauuggagaagauggcuccaucugugugcuguaugaaagccccaccagcaggggguagcacucaaaacagcaccgacauacaaaugguagacag  -3'   exp
    .(((((((.((.(((((..(((((.......)))))))))))))))))).(((..(((((.((....)))))..))..)))..)))))))............)))))))).   reads    mm       sample
    ........................gauggcuccaucugugugcugu.......................................................   1        0        seq
    ........................auggcuccaucugugugcugua.......................................................   1        0        seq
    ..............................cuccaucugugugcugua.......................................................   1        0        seq
    ...........................................................cagcaggggguagcacucaaaacCgc.......................   1        1        seq
    ..............................................................agcaggggguagcacucaaaacagcaccgac.................   1        0        seq
    ...............................................................caggggguagcacucaaaacagcaccgac.................   1        0        seq
    ....................................................................gguagcacucaaaacagcacc....................   1        0        seq
    .......................................................................guagcacucaaaacagcacc....................   4        0        seq
    ........................................................................uagcacucaaaacagcac.....................   1        0        seq
    ....................................................................uaUcacucaaaacagcacc....................   1        1        seq
    .......................................................................uagcacucaaaacagcacc....................   57       0        seq
    .......................................................................uagcacucGaaacagcacc....................   1        1        seq
    ...................................................................................ccgacauacaaaugguaga...   1        0        seq
```

novel-mir-candidate-432

Provisional ID	:	chr11_27503
Score total	:	1.1
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.4
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	94
Mature read count	:	94
Loop read count	:	0
Star read count	:	0

Mature Star

```
5'- gacaucacuccaucagccuucucuggccugucuccugcagccccaccgcugcacugaagcccagggcugguggagcagccucucuccuuggaccuccucucggcccuaaagg  -3'   exp
    .......(((((.(((((....((((.((.((...((((((......)))))).))))).))))))))))))))).........(((((((.((.......)).)).)).))))   reads   mm   sample
    ......acuccaucagccuucucuggccug.......................................................................................   1       0    seq
    ......acuccaucagccuucucuggccugucuccugcagU............................................................................   1       1    seq
    ................cuucucuggccugucuccugcag...............................................................................   1       0    seq
    .................uucucuggccugucuccugAa.................................................................................   2       1    seq
    .................uucucuggccugucuccugcag................................................................................   1       0    seq
    .................uucucuggccugucuccugcagU...............................................................................   2       1    seq
    ..................ucucuggccugucuccug....................................................................................   1       0    seq
    ..................ucucuggccugucuccugcU..................................................................................   1       1    seq
    ..................ucucuggccugucuccugca..................................................................................   13      0    seq
    ..................ucucuggccugucuccugcaU.................................................................................   4       1    seq
    ..................ucucuggccugucuccugAag.................................................................................   1       1    seq
    ..................ucucuggccugucuccugcaA.................................................................................   3       1    seq
    ..................ucucuggccugucuccugcag.................................................................................   28      0    seq
    ..................ucucuggccugucuccugcagA................................................................................   11      1    seq
    ..................ucucuggccugucuccugcagU................................................................................   22      1    seq
    ...................cucuggccugucuccugcaA.................................................................................   1       1    seq
    ...................cucuggccugucuccugcag.................................................................................   2       0    seq
    ...................cucuggccugucuccugcagU................................................................................   1       1    seq
    ..............................................accgcugcacugaagcccagggcuguggagc.........................................   1       0    seq
    ......................................................................ucucuccuAggaccuccu..............................   1       1    seq
```

novel-mir-candidate-25

Provisional ID	:	chr7_19745
Score total	:	161.5
Score for star read(s)	:	3.9
Score for read counts	:	158.2
Score for mfe	:	2.2
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	322
Mature read count	:	310
Loop read count	:	0
Star read count	:	12

```
                    Mature                    Star
5'- cgcugcgaacacgggaaaccugcggaacucccgcggcgccgcucaacagccacucgcccggcgccgucgaacuuccgccgcccaguccgccgcagcgggccugcggcccgg  -3'   obs
    cgcugcgaacacgggaaaccugcggaacucccgcggcgccgcucaacagccacucgcccggcgccgucgaacuuccgccgccccaguccgccgcagcgggccugcggcccgg        exp
    .((((((...(((((.....((((((....(((((((((..(...........)..)))))))).))...)))))).))).))....)))))))((((...)))))..  reads   mm   sample
    .........cacgggaaaccugcggaacuc.......................................................................................  1       0    seq
    ............gAgaaaccugcggaacuc.......................................................................................  1       1    seq
    .............ggaaaccugcggaacucc......................................................................................  1       0    seq
    ................accugcggaacucccgcggcgccC.............................................................................  1       1    seq
    ................accugcggaacucccgcggcgccg.............................................................................  2       0    seq
    ................accugcggaacucccgcggcgccA.............................................................................  1       1    seq
    ................ccugcggaacucccgcggcg..................................................................................  2       0    seq
    ................ccugcggaacucccgcggcgcc................................................................................  42      0    seq
    ................ccugcggaacucccgcggcgccA...............................................................................  7       1    seq
    ................ccugcggaacucccgcggcgccg...............................................................................  5       0    seq
    ................ccugcggaacucccgcggcgccgA..............................................................................  5       1    seq
    ................ccugcggaacucccgcggcgccgU..............................................................................  2       1    seq
    ................ccugcggaacucccgcggcgccgAu.............................................................................  2       1    seq
    ................cugcggaacucccgcggcgc..................................................................................  2       0    seq
    ................cugcggaacucccgcggcgcU.................................................................................  2       1    seq
    ................cugcggaacucUcgcggcgcc.................................................................................  1       1    seq
    ................cugcggaacucccgcggcgcc.................................................................................  39      0    seq
    ................cugcggaacucccgcggUgcc.................................................................................  1       1    seq
    ................cugcggaacucccgcggcgccg................................................................................  4       0    seq
    ................cugcggaacucccgcggcgccA................................................................................  2       1    seq
    ................cugcggaacucccgcggcgccU................................................................................  1       1    seq
    ................cugcggaacucccgcggcgccgA...............................................................................  18      1    seq
    ................cugcggaacucccgcggcgccgG...............................................................................  1       1    seq
    ................cugcggaacucccgcggcgccgAu..............................................................................  4       1    seq
    ................cugcggaacucccgcggcgccgUu..............................................................................  1       1    seq
    ...................ugcggaacucccgcggcgU.................................................................................  1       1    seq
    ...................ugcggaacucccgcggcgc.................................................................................  3       0    seq
    ...................ugcggaacucccgcggcgcU................................................................................  1       1    seq
    ...................ugcggaacucccgcggcgcc................................................................................  7       0    seq
    ...................ugcggaacucccgcggcgcA................................................................................  1       1    seq
    ...................ugcggaacucccgcggcgccA...............................................................................  4       1    seq
    ...................ugcggaacucccgcggcgccU...............................................................................  7       1    seq
    ...................ugcggaacucccgcggcgccg...............................................................................  66      0    seq
```

```
                    Mature                    Star
cgcugcgaacacgggaaaccugcggaacucccgcggcgccgcucaacagccacucgcccggcgccgucgaacuuccgccgcccaguccgccgcagcgggccugcggcccgg
...................ugcggaacucccgcggcgNcg................................................................  1     1     seq
...................ugcggaacucccgcggcgccgA................................................................  33    1     seq
...................ugcggaacucccgcggcgccgU................................................................  15    1     seq
...................ugcggaacucccgcggcgccgc................................................................  9     0     seq
...................ugcggaacucccgcggcgccgcu................................................................  1     0     seq
...................ugcggaacucccgcggcgccgAu................................................................  6     1     seq
...................ugcggaacucccgcggcgccgUu................................................................  10    1     seq
....................gcggaacucccgcggcgcc...................................................................  2     0     seq
....................gcggaacucccgcggcgccgA..................................................................  1     1     seq
....................cggaacucccgcggcgccgcu..................................................................  1     0     seq
.............................................ccacucgcccggcgccgucgaacuuccgcc.............................  1     0     seq
.............................................acucgcccggcgccgucgaac......................................  1     0     seq
.............................................acucgcccggcgccgucgaacuuccgcc...............................  1     0     seq
...............................................cucgcccggcgccgucgaacuuccg.................................  1     0     seq
...............................................cucgcccggcgccgucgaacuuccgc................................  1     0     seq
...............................................cucgcccggcgccgucgaacuuccgcc...............................  1     0     seq
.................................................cccggcgccgucgaacuuccgccgcccag...........................  1     0     seq
...................................................ccggcgccgucgaacuuccgcc...............................  1     0     seq
.................................................cggcgccgucgaacuuccg.......................................  1     0     seq
...................................................ggcgccgucgaacuuccgc...............................  1     0     seq
.....................................................gcgccgucgaacuuccgccg............................  1     0     seq
.....................................................gcgccgucgaacuuccgccgU...........................  1     1     seq
.....................................................gcgccgucgaacuuccgccgc...........................  1     0     seq
.....................................................gcgccgucgaacuuccgccgA...........................  1     1     seq
.....................................................gcgccgucgaacuuccgccgcc..........................  3     0     seq
.......................................................cgccgucgaacuuccgccgccU........................  1     1     seq
.......................................................cgccgucgaacuuccgccgccc........................  1     0     seq
.......................................................cgccgucgaacuuccgccgcccU.......................  1     1     seq
```

novel-mir-candidate-270

Provisional ID	:	chr2_6675
Score total	:	2.1
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.4
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	288
Mature read count	:	287
Loop read count	:	0
Star read count	:	1

Mature Star

```
5'- ccgucccccucccaggcggccgucccccagacucucccgggcugugggcgaauaacuguaaagcggggagaggucuggggaaagcuggggguagggaguggcucuuagcaugagucu  -3'   obs
    ccgucccccucccaggcggccgucccccagacucucccgggcugugggcgaauaacuguaaagcggggagaggucuggggaaagcuggggguagggaguggcucuuagcaugagucu        exp
    ...((((..(((...((((..((((((((((((((..(((...(((......)))..)))).)))))).)))))))))..))))))).))))).....(((((.......)))))).
```

	reads	mm	sample
.....cccaggcggccgucccccagacu.....	1	0	seq
.....cgucccccagacucucccggg.....	1	0	seq
.....cgucccccagacucucccgggcugu.....	1	0	seq
.....gucccccagacucucccggg.....	1	0	seq
.....gucccccagacucucccgggc.....	7	0	seq
.....gucccccagacucucccgggA.....	1	1	seq
.....guccAcagacucucccgggc.....	1	1	seq
.....gucccccagacucucccgggcA.....	2	1	seq
.....gucccccagacucucccgggcu.....	21	0	seq
.....gucccccagacucucccggNcu.....	2	1	seq
.....gucccccagacucucccgggcuU.....	1	1	seq
.....gucccccagacucucccgAgcug.....	1	1	seq
.....gucccccagacucucccggNcug.....	1	1	seq
.....gucccccagacucucccgggcGg.....	2	1	seq
.....gucccccagacucucccgggcug.....	51	0	seq
.....gucccccagacucucccggNcugu.....	1	1	seq
.....gucccccagacucucccgAgcugu.....	2	1	seq
.....guGcccagacucucccgggcugu.....	1	1	seq
.....gucccccagacucucccggAcugu.....	1	1	seq
.....gucccccagacucucccgggcugC.....	2	1	seq
.....gucccccagacucucccgggcugu.....	136	0	seq
.....gucccccagacucucccgggcugA.....	34	1	seq
.....gucccccagacucucUgggcugu.....	1	1	seq
.....gucccccagacucucccgggcuguU.....	9	1	seq
.....gucccccagacucucccgggcuguA.....	1	1	seq
.....gucccccagacucucccgggcugAg.....	1	1	seq
.....uccccagacucucccgggcuAu.....	1	1	seq
.....uccccagacucucccgggcugu.....	2	0	seq
.....agacucGccgggcugug.....	1	1	seq
.....cucCcccgggcuguggcg.....	1	1	seq
.....cggggagaggucuggggaaa.....	1	0	seq

novel-mir-candidate-58

Provisional ID	:	chr19_40583
Score total	:	82
Score for star read(s)	:	3.9
Score for read counts	:	79.7
Score for mfe	:	1.2
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	168
Mature read count	:	161
Loop read count	:	2
Star read count	:	5

```
                                   Star                                   Mature
5'- guucgcuuagcggugcccucacgcuucuguaccccgggauguggggggcgguacagaccuugaaauccccgcaccgcucucuccaccccgaguaaauucaugcgucccguc  -3'    obs
    guucgcuuagcggugcccucacgcuucuguaccccgggauguggggggcgguacagaccuugaaauccccgcaccgcucucuccaccccgaguaaauucaugcgucccguc         exp
    .........((((.(.....((((.....(((.((((.((.(((((((((((.(.((........)).)).))))))))))).)).)))).)))).......)))))))))..   reads     mm        sample
    .uucgcuuagcggugcccu.......................................................................................   2         0         seq
    .uucgcuuagcggugcccucacgcuucu..............................................................................   1         0         seq
    .uucgcuuagcggugcccucacgcuucug.............................................................................   1         0         seq
    ...cgcuuagcggugcccucacgcuucugu............................................................................   1         0         seq
    ........agcggugcccucacgcuucug.............................................................................   1         0         seq
    .........gcggugcccucacgcuucug.............................................................................   2         0         seq
    ...............cccucGcgcuucuguacccgg......................................................................   1         1         seq
    ................cucacgcuucuguacccg........................................................................   1         0         seq
    ....................cgcuucuguacccgggauguggggggcg..........................................................   1         0         seq
    ..............................acccgggauguggggggcggua......................................................   1         0         seq
    ..............................cccgggauguggggggcggua.......................................................   1         0         seq
    ..............................cccgggauguggggggcgguac......................................................   1         0         seq
    ..............................ccgggauguggggggcgguaca......................................................   2         0         seq
    ......................................ggggcgguacagaccuug....................................................   1         0         seq
    ...............................................ggcgguacagaccuugaaauccc.....................................   1         0         seq
    ..............................................gcgguacagaccuugaaau..........................................   1         0         seq
    ............................................cgguacagaccuugaaauccccc.......................................   1         0         seq
    ...........................................Cacagaccuugaaauccccgc...........................................   1         1         seq
    ..........................................Cacagaccuugaaauccccgcaccg........................................   1         1         seq
    ........................................cagaccuugaaauccccg.................................................   1         0         seq
    ...................................................cuugaaauccccgcaccg.......................................   1         0         seq
    ....................................................................Ccaccgcucucuccaccccgagu................   1         1         seq
    ...................................................................caccgcucucuccaccccg.....................   1         0         seq
    ..................................................................caccgcucucuccaccccga.....................   4         0         seq
    ..................................................................caccgcucucuccaccccgag....................   17        0         seq
    ..................................................................caccgcucucuccaccccNag....................   1         1         seq
    ..................................................................caccgcucucuccaccccgaA....................   1         1         seq
    ..................................................................caccgcucucuccaccccgaU....................   4         1         seq
    ..................................................................caccgcucucuccaccccgaUu...................   6         1         seq
    ..................................................................caccgcuAucuccaccccgagu...................   1         1         seq
    ..................................................................caccgcucucuccaccccgagA...................   13        1         seq
    ..................................................................caccgcucucuccaccccgagu...................   81        0         seq
    ...................................................................Gaccgcucucuccaccccgagu..................   1         1         seq
```

```
                                   Star                                   Mature
guucgcuuagcggugcccucacgcuucuguaccccgggauguggggggcgguacagaccuugaaauccccgcaccgcucucuccaccccgaguaaauucaugcgucccguc
.......................................................................caccgcucucuccaccccAagu..................   1         1         seq
.......................................................................caccgcucucuccaccccgagAa.................   1         1         seq
.......................................................................caccgcucucuccaccccgaguU.................   8         1         seq
.......................................................................caccgcucucuccaccccgagua.................   8         0         seq
.......................................................................caccgcucucuccaccccgagAaa................   1         1         seq
.......................................................................caccgcucucuccaccccgaguaU................   1         1         seq
.......................................................................caccgcucucuccaccccgagGaa................   2         1         seq
.......................................................................caccgcucucuccaccccgaguaa................   1         0         seq
.......................................................................caccgcucucuccaccccgaguaaa...............   2         0         seq
.......................................................................accgcucucuccaccccgag....................   1         0         seq
.......................................................................accgcucucuccaccccgagu...................   1         0         seq
.......................................................................accgcucucuccaccccgagua..................   1         0         seq
.......................................................................ccgcucucuccaccccgaguaaa.................   1         0         seq
..........................................................................cucucuccaccccgagua...................   1         0         seq
```

novel-mir-candidate-367

Provisional ID	:	chr16_35479
Score total	:	1.6
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.9
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	2592
Mature read count	:	2592
Loop read count	:	0
Star read count	:	0

Mature **Star**

```
5'- gagagaaugcagcagcaaauggggcggcggcgggggaacccagacugggguuuucugcugaaaauccaguugggaauuugugcugugaccuacauuacucugccacc  -3'   exp
    ........((((.((..((((.(((..((((((.(((...(((((.((((((((((....)))))))))))))))..)))).))))))..)))).))))).))))))....   reads     mm      sample
    ...................uggAggcggcggcggggg.......................................................................   1         1       seq
    ...................ugggggcggcggcggggg.......................................................................   43        0       seq
    ...................ugggggcggcggcgggggG......................................................................   61        1       seq
    ...................ugggggcggcggcgggggC......................................................................   2         1       seq
    ...................ugggggcggcggcgggggGa.....................................................................   219       1       seq
    ...................ugggggcggcggcgggggGaa....................................................................   1         1       seq
    ....................gggggcggcggGggggga......................................................................   1         1       seq
    ....................gggggcggcggcgggggC......................................................................   14        1       seq
    ....................gggggcggcggcgggggGa.....................................................................   1662      1       seq
    ....................gggggcggcggAggggGaa.....................................................................   1         1       seq
    ....................gggggcggcggcgggggGaa....................................................................   1         1       seq
    .....................ggggcggcggcgggggGa.....................................................................   586       1       seq
```

novel-mir-candidate-428

Provisional ID	:	chr19_41620
Score total	:	1.2
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.7
Score for randfold	:	-2.2
Score for cons. seed	:	3
Total read count	:	442
Mature read count	:	439
Loop read count	:	1
Star read count	:	2

Star Mature

```
5'- cuuaugggagugguagucucggagucacuuccgggccaggcuuccgcgugguggggcaguguggggcauccccagcacugaguucugcccgggugaguauuuccuccugcggug  -3'   obs
    cuuaugggagugguagucucggagucacuuccgggccaggcuuccgcgugguggggcaguguggggcauccccagcacugaguucugcccgggugaguauuuccuccugcggug        exp
    .....(((((.((.(..((((.........(((((((.(((.(((...(((.((((..((....)).))))).))).))).))))))))))))..).)))))).....   reads   mm   sample
    ............................uccgggccaggcuuccgcg.......................................................   1       0    seq
    ......................................gcuuccgcguggugggcagug.............................................   1       0    seq
    ...................................ccgcguggugggcaguguggggcau...........................................   1       0    seq
    ...................................................gcaguguggggcauccccag...............................   1       0    seq
    ....................................................................ucccagcacugagCucug...............   1       1    seq
    ...................................................................cccagcacugagCucugc................   1       1    seq
    ....................................................................cagcacugaguucugcccggg.............   22      0    seq
    ....................................................................cagcacugaguucugcccgggA............   291     1    seq
    ....................................................................cagcacugaguucugcccgggu............   15      0    seq
    ....................................................................cagcacugaguucugcccgggG............   3       1    seq
    ....................................................................cagcacugaguucugcccgggug...........   1       0    seq
    ....................................................................cagcacugaguucugcccgggUg...........   8       1    seq
    ....................................................................cagcacugaguucugcccAggug...........   1       1    seq
    ....................................................................cagcacugaguucugcccgggAg...........   52      1    seq
    ....................................................................cagcacugaguucugcccggguga..........   4       0    seq
    ....................................................................cagcacugaguucugcAcggguga..........   1       1    seq
    ....................................................................cagcacugaguucugcccgggAga..........   33      1    seq
    .....................................................................agcacugaguucugcccg...............   1       0    seq
    .....................................................................agcacugaguucugcccggg.............   1       0    seq
    .....................................................................agcacugaguucugcccgggu............   3       0    seq
    .....................................................................agcacugaguucugcccgggAg...........   1       1    seq
    .....................................................................gcacugaguucugcccgggugaguau.......   2       0    seq
    .....................................................................gcacugaguucugcccgggugaguauuu.....   1       0    seq
    ......................................................................acugaguucugcccgggug............   1       0    seq
```

novel-mir-candidate-434

Provisional ID	:	chr8_20897
Score total	:	1.1
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.4
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	29
Mature read count	:	29
Loop read count	:	0
Star read count	:	0

Mature **Star**

```
5'- gaugcucuugucugaaggugguuuggguugagcugugagacugagcuaugaugguucucuucuucccucccucugcacagcccagccucagucacaugggcaucugccc -3'   exp
    (((((((.(((((((.(((...((((.(((.(((.((.(.(((...((((((...))))))..........)))..).)).)))))))))))))..)))).)))))))..... reads     mm      sample
    ...................guuugggucugagcugug.......................................................................... 2         0       seq
    ...................guuugggucugagcugugU.......................................................................... 17        1       seq
    ...................guuugggucugagcugugga......................................................................... 6         0       seq
    ...................guuugggucugagcuguAa.......................................................................... 4         1       seq
```

novel-mir-candidate-23

Provisional ID	:	chr19_40704
Score total	:	181.3
Score for star read(s)	:	3.9
Score for read counts	:	174
Score for mfe	:	2.5
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	353
Mature read count	:	352
Loop read count	:	0
Star read count	:	1

```
                    Mature                  Star
5'- gaggugaccugacccaggguuuuaguggcucccucugccugcagaauggaagaccacgugcaggugagggugggagccaccgauaccugggugaugggucccagcaacagcccag  -3'   obs
    gaggugaccugacccaggguuuuaguggcucccucugccugcagaauggaagaccacgugcaggugagggugggagccaccgauaccugggugaugggucccagcaacagcccag        exp
    (..(.(((((.(((((((((.((.((((((((((((((((((...(((.(....)))..)))))))).))))).))))))))).)).))))))))...))))))..).........   reads     mm      sample
    .............ccaggAuuuaguggcucc.......................................................................................   1         1       seq
    ...................uGuaguggcucccucugccugca.............................................................................   1         1       seq
    ...................uuaguggUucccucugcc..................................................................................   1         1       seq
    ...................uuaguggcucccucugcc..................................................................................   9         0       seq
    ...................uuaNuggcucccucugccu.................................................................................   1         1       seq
    ...................uuaguggcucccucugccA.................................................................................   3         1       seq
    ...................uuaguggcucccucugccu.................................................................................   28        0       seq
    ...................uuaguggcucccCcugccu.................................................................................   1         1       seq
    ...................uuaguggcucccucugccug................................................................................   3         0       seq
    ...................uuaguggcucccucugccugc...............................................................................   22        0       seq
    ...................uuaguggcucccucugccugU...............................................................................   2         1       seq
    ...................uuaguggcucccucugccugA...............................................................................   5         1       seq
    ...................uuaguggcucccucugccGgca..............................................................................   1         1       seq
    ...................uuaguggcucccucCgccugca..............................................................................   1         1       seq
    ...................uuaguggcucccucugccNgca..............................................................................   1         1       seq
    ...................uuaguggcucccucugccugUa..............................................................................   1         1       seq
    ...................uuaguggcucccucugccugca..............................................................................   172       0       seq
    ...................Guaguggcucccucugccugca..............................................................................   2         1       seq
    ...................uuaguggcucccucugccugcC..............................................................................   1         1       seq
    ...................uuagGggcucccucugccugca..............................................................................   1         1       seq
    ...................uuaguggcucccucugccAgca..............................................................................   1         1       seq
    ...................uuaguggcucccucugccugcU..............................................................................   5         1       seq
    ...................uGaguggcucccucugccugca..............................................................................   1         1       seq
    ...................uuaguggcucccucugccugcaA.............................................................................   13        1       seq
    ...................uuaguggcucccucugccugcaC.............................................................................   1         1       seq
    ...................uuaguggcucccucugccugcag..............................................................................   3         0       seq
    ...................uuaguggcucccucugccugcaU..............................................................................   11        1       seq
    ...................uuaguggcucccucugccugAag..............................................................................   1         1       seq
    ...................uuaguggcucccucugccugUaga.............................................................................   1         1       seq
    ...................uuaguggcucccucugccugcaAa.............................................................................   4         1       seq
    ...................uuaguggcucccucugccugcaga.............................................................................   5         0       seq
    ...................uuaguggcucccucugccugcagU.............................................................................   1         1       seq
    ...................uuaguggcucccucugccugcagCa............................................................................   1         1       seq
```

```
                    Mature                  Star
gaggugaccugacccaggguuuuaguggcucccucugccugcagaauggaagaccacgugcaggugagggugggagccaccgauaccugggugaugggucccagcaacagcccag
.....................uaguggcucccucugccu.......................................................................   2         0       seq
.....................uaguggcucccucugccug......................................................................   1         0       seq
.....................uaguggcucccucugccugU.....................................................................   1         1       seq
.....................uaguggcucccucugccugc.....................................................................   2         0       seq
.....................uaguggcucccucugcGugca....................................................................   1         1       seq
.....................uaguggcucccucugccugca....................................................................   23        0       seq
.....................uaguggcucccucugccugcaA...................................................................   3         1       seq
.....................uaguggcucccucugccugcaU...................................................................   4         1       seq
.....................uaguggcucccucugccugcaC...................................................................   2         1       seq
.....................uaguggcucccucugccugcaUa..................................................................   1         1       seq
.....................Caguggcucccucugccugcaga..................................................................   1         1       seq
.....................uaguggcucccucugccugcaAa..................................................................   1         1       seq
.....................uaguggcucccucugccugcaga..................................................................   4         0       seq
.....................uaguggcucccucugccugcagaa.................................................................   1         0       seq
.....................uaguggcucccucugccugcagaU.................................................................   1         1       seq
...............................uGugccugcagaauggaaga...........................................................   1         1       seq
.......................................................cacgugcaggugaCggug.....................................   1         1       seq
.......................................................caggugagggugggagccaccgG................................   1         1       seq
```

novel-mir-candidate-408

Provisional ID	:	chr9_21864
Score total	:	1.3
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.8
Score for randfold	:	-2.2
Score for cons. seed	:	3
Total read count	:	42
Mature read count	:	33
Loop read count	:	8
Star read count	:	1

Mature **Star**

```
5'- aauauaggagacuucguugugcagugugcuagcggcuucacgguucggucccucggacccggcagccgccacuggugcugagcugcuuaggaagccccuaucggcgagc   -3'   obs
    aauauaggagacuucguugugcagugugcuagcggcuucacgguucggucccucggacccggcagccgcccacuggugcugagcugcuuaggaagccccuaucggcgagc         exp
    ...(((((.(.((((.(...((((((((((((((((((.(..((((((.....)))))))..).)))))))...)))))))..)))))).).)))))).)))))).........   reads   mm   sample
    ....................gcaguagugcuagcggcu.......................................................................   26      0    seq
    ....................gcaguagugcuaUcggcu.......................................................................   2       1    seq
    ....................gcaguagugcuagcggcuu......................................................................   3       0    seq
    .....................caguagugcuagcggcuuc.....................................................................   2       0    seq
    ...................................................ccucggacccggcUgccgcc.....................................   2       1    seq
    ....................................................cucggacccggcUgccgc......................................   3       1    seq
    ...................................................cucggacccggcUgccgcc.....................................   3       1    seq
    .......................................................Ucccggcagccgccacug....................................   1       1    seq
    ..........................................................cUgccgccacuggugcug..............................   1       1    seq
    ..............................................................gccacuggugcugagcug.......................   1       0    seq
```

novel-mir-candidate-351

Provisional ID	:	chr7_17966
Score total	:	1.7
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	22
Mature read count	:	22
Loop read count	:	0
Star read count	:	0

Mature Star

```
5'- ggcuuguccguggagaggggugggcggacagcgcauaccugccuagccuuacagugugggguaugugccaacggcccucucucacucagguauauuuuccuggaguacgcguc  -3'   exp
    ........((((..((((((.(((.((.....(((((((((((((.........)).)))))))))))))...)).))))))))))))))(((((((.........))).)))))..  reads   mm   sample
    ....................uggggcggacagcgcauaccugcU.....................................................................  21      1    seq
    ....................gggcggacagcgcauaccugccu.....................................................................  1       0    seq
```

novel-mir-candidate-397

Provisional ID	:	chr17_38349
Score total	:	1.4
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.7
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	197
Mature read count	:	197
Loop read count	:	0
Star read count	:	0

Mature Star

```
5'- ugaugcuguggaaagagcacugaacuuggagucagaagaccaggauccaucagcagcgggcugagugccacugcaccaguguuccggcuccaccagcuucagugucuuua  -3'    exp
    ...........(((((.(((((((((((((((((.(((.((..((........((((..(((.....)))).))))).)).)).))).)))))))..)).)))))))))))).   reads     mm        sample
    ................agcacugGacuuggagucagaaga.......................................................................   1         1         seq
    ................gcacugGacuuggagucagaaga.......................................................................   8         1         seq
    ................cacugaacuuggagucagaagG.........................................................................   1         1         seq
    ..................acugaacuuggagucaga...........................................................................   1         0         seq
    ..................acugUacuuggagucagaa..........................................................................   1         1         seq
    ..................acugNacuuggagucagaag.........................................................................   1         1         seq
    ..................acugUacuuggagucagaag.........................................................................   3         1         seq
    ..................acugaacuuggagucagaag.........................................................................   5         0         seq
    ..................acugCacuuggagucagaag.........................................................................   1         1         seq
    ..................acugaacuuggagucagaagG........................................................................   30        1         seq
    ..................acugaacuuggagucagaagGc.......................................................................   116       1         seq
    ..................acugaacuuggagucagaagGcc......................................................................   2         1         seq
    ...................cugaacuuggagucagaagG........................................................................   1         1         seq
    ...................cugaacuuggagucUgaagac.......................................................................   1         1         seq
    ...................cugaacuuggagucagaagGc......................................................................   25        1         seq
    ....................ugUacuuggagucagaagac.......................................................................   1         1         seq
```

novel-mir-candidate-265

Provisional ID	:	chr2_7950
Score total	:	2.1
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.4
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	263
Mature read count	:	263
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- aggaggucagucaacaugucaucuuucauauaaagguucacuuuucucagaagugaaacuaacuucuauaugaaagaugacacguguugacugaccuccuuuucucuauccu -3'   exp
    ((((((((((((((((((((((((((((((((.((((((((((((...)))))))).....)))).)))))))))))))))))..))))))))))))))))).............   reads     mm        sample
    ...............................................................uucuauaugaaagaugacacg............................   1         0         seq
    ...............................................................auaugaaagaugacacguguugacu.....................   1         0         seq
    ...............................................................uaugaaagaugacacguguugacA.....................   2         1         seq
    ...............................................................uaugaaagaugacacguguugacu.....................   4         0         seq
    ...............................................................augaaagaugacacguguugacA......................   1         1         seq
    ...............................................................augaaagaugacacguguugacu......................   2         0         seq
    ...............................................................augGaagaugacacguguugacu......................   1         1         seq
    ...............................................................ugaaagaugacacguguuga.........................   1         0         seq
    ...............................................................ugaaagaugacacguguugac........................   7         0         seq
    ...............................................................ugaaagaugacacguguugacu......................   145       0         seq
    ...............................................................uUaaagaugacacguguugacu......................   1         1         seq
    ...............................................................ugaaagaugacacguguuNacu......................   1         1         seq
    ...............................................................ugaaagaugacacguguugacA......................   12        1         seq
    ...............................................................ugaaagaugacacguguuAacu......................   2         1         seq
    ...............................................................ugaaagaugacacguguuAacug.....................   1         1         seq
    ...............................................................ugaaagaugacacguguuCacug.....................   1         1         seq
    ...............................................................ugaaagaugacacguguugacug.....................   47        0         seq
    ...............................................................ugaaagaugacacguguugacugU....................   22        1         seq
    ...............................................................ugaaagaugacacguguugacuga....................   3         0         seq
    ................................................................aaagaugacacguguugac........................   1         0         seq
    ................................................................aaagaugacacguguugacu.......................   2         0         seq
    ................................................................aaagaugacacguguugacug......................   1         0         seq
    ................................................................agaugacacguguugacugacc.....................   1         0         seq
    ................................................................gaugacacguguugacug.........................   1         0         seq
    ................................................................gaugacacguguugacugacc......................   2         0         seq
    ................................................................gaugacacguguugacugacA......................   1         1         seq
    ................................................................augacacguguugacugaccu......................   1         0         seq
    ................................................................augacacguguugacugaccuc.....................   1         0         seq
    ................................................................augacacguguugacugaccucA....................   1         1         seq
    ................................................................ugacacguguugacugaccuccuuuucucu.............   1         0         seq
```

novel-mir-candidate-183

Provisional ID	:	chr1_2372
Score total	:	12.1
Score for star read(s)	:	3.9
Score for read counts	:	4.7
Score for mfe	:	2.5
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	21
Mature read count	:	19
Loop read count	:	0
Star read count	:	2

```
                    Mature                  Star
5'- gaaucacugaggcaggagagugaccccacccagcccuccaggccagccaggauaacccuggagggcuggagggggacacguccuggugagugcacccucccucuggguucca  -3'   obs
    gaaucacugaggcaggagagugaccccacccagcccuccaggccagccaggauaacccuggagggcuggagggggacacguccuggugagugcacccucccucuggguucca        exp
    ....((((.(..(((((..(((.((((..((((((((((((((((.....)).....)))))))))))))..))))).)))).))))).).)))).((((.......)))).....  reads   mm   sample
    ......cugaggcaggagagugGc.......................................................................................  1       1    seq
    ...................gugaccccacccagcccuccagU.......................................................................  1       1    seq
    ...................ugaccccacccagcccuccagU........................................................................  1       1    seq
    ...................ugaccccacccagcccuccagg........................................................................  8       0    seq
    ...................ugaccccacccagcccuccagA........................................................................  2       1    seq
    ...................ugaccccacccagcccuccaggA.......................................................................  7       1    seq
    ..........................................................cuggagggcuggagggggaca...............................  1       0    seq
    ..........................................................uggagggcuggagggggac.................................  1       0    seq
```

novel-mir-candidate-151

Provisional ID	:	chr14_31490
Score total	:	27.3
Score for star read(s)	:	3.9
Score for read counts	:	20.5
Score for mfe	:	1.9
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	52
Mature read count	:	25
Loop read count	:	0
Star read count	:	27

Mature **Star**

```
5'- ccagcgaggagucugaaaucacagccucaagcucggccaaggccccaggagcuuccuuggauggaccuuggggcuggacccgcagccugccauuccaucugacaggcccuga  -3'   obs
    ccagcgaggagucugaaaucacagccucaagcucggccaaggccccaggagcuuccuuggauggaccuuggggcuggaccccgcagccugccauuccaucugacaggcccuga        exp
    ...(((.((.........((.(((((((((((.(((((((((((...)).....)))))))))..))))))))))))))))))).(((((.((.......)).)))))..... reads   mm   sample
    ..................ucacagccucaagcucggc.......................................................................... 1     0    seq
    ..................ucacagccucaagcucggccaag...................................................................... 2     0    seq
    ..................ucacagccucaagcCcggccaag...................................................................... 1     1    seq
    ..................cacagccucaagcCcggccaag....................................................................... 1     1    seq
    ..................cacagccucaagcucggccaagg...................................................................... 1     0    seq
    ..................cacagccucaagcucggccaagU...................................................................... 2     1    seq
    ...................acagccucaagcucggccaag....................................................................... 5     0    seq
    ...................acagccucaagcucggccaagg...................................................................... 12    0    seq
    ...............................................caggagcuuccuuggauggaccu.....................................................  1     0    seq
    ...............................................agcuuccuuggauggaccuuggggcuggacc.............................................  1     0    seq
    ...............................................uuggauggaccuuggggc..........................................................  8     0    seq
    ...............................................uuggauggaccuuggggcuggU......................................................  1     1    seq
    ...............................................uuggauggaccuuggggcuggac.....................................................  4     0    seq
    ...............................................uuggauugNaccuuggggcuggac....................................................  1     1    seq
    ...............................................uuggauggaccuuggggcuggaU.....................................................  3     1    seq
    ...............................................uuggauggaccuuggggcuggacU....................................................  6     1    seq
    ...............................................uuggauggaccuuggggcuggacA....................................................  2     1    seq
    ...............................................uuggauggaccuuggggcuggaAc....................................................  2     1    seq
```

novel-mir-candidate-120

Provisional ID	:	chr19_40315
Score total	:	39.3
Score for star read(s)	:	3.9
Score for read counts	:	32.2
Score for mfe	:	2.2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	75
Mature read count	:	74
Loop read count	:	0
Star read count	:	1

Star Mature

```
5'- aucaggguuugguguacaauuguggggaggcugcagggaggugugggagaaggucccgcuuuagagcuuggucccucugugcucaccucccagccccaagcccccagcaccgg  -3'   obs
    aucaggguuugguguacaauuguggggaggcugcagggaggugugggagaaggucccgcuuuagagcuuggucccucugugcucaccucccagccccaagcccccagcaccgg        exp
    .........((((((.......((((.((((((.(((((((((.(.(.(((.((.(((((.(((.))).))).).).).)))))))).))....))))))))))))))).   reads    mm       sample
    ................................cagggaggugugggagaagguc.......................................................   1        0        seq
    ...............................................................ucccucugugcucaccuccc......................   1        0        seq
    ...............................................................ucccucugugcucaccucccaU....................   1        1        seq
    ...............................................................ucccucugugcucaccucccaA....................   1        1        seq
    ...............................................................ucccucugugcucaccucccag....................   4        0        seq
    ...............................................................ucccucugugcucaccucccagA...................   62       1        seq
    ...............................................................ucccucugugcucaccucccagU...................   3        1        seq
    ...............................................................ucccucugugcucaccucccagAc..................   1        1        seq
    ..................................................................ccucugugcucaccucccagA...................   1        1        seq
```

novel-mir-candidate-267

Provisional ID	:	chr11_25899
Score total	:	2.1
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.4
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	21
Mature read count	:	18
Loop read count	:	3
Star read count	:	0

Star Mature

```
5'- guggaguuccucugggcugggagggaaggggcugacggcaggcagggucugcagucacuggccaccacccaucagcaccuuuguccucccaggcccuggagcuggacuccau -3'   exp
    ((((((((((((((((((.((((((((((((((((((.((..((...((((..........)))).)).)).)))))).)))))).)))))))).)))))).))))..))))))))))   reads     mm        sample
    ............................................gggGcugcagucacuggcc.............................................   2         1         seq
    ............................................ggGcugcagucacuggcc..............................................   1         1         seq
    ....................................................................caucagcaccuuuguccuccca....................   1         0         seq
    ....................................................................caucagcaccuuuguccucccaA...................   1         1         seq
    ....................................................................caucagcaccuuuguccucccag...................   1         0         seq
    ....................................................................caucagcaccuuuguccucccagU..................   1         1         seq
    ....................................................................caucagcaccuuuguccucccagUu.................   1         1         seq
    ....................................................................aucagcaccuuuguccucccag....................   2         0         seq
    ....................................................................aucagcaccuuuguccucccagA...................   7         1         seq
    ....................................................................aucagcaccuuuguccucccagU...................   3         1         seq
    ....................................................................aucagcaccuuuguccucccagUu..................   1         1         seq
```

novel-mir-candidate-162

Provisional ID	:	chr19_40831
Score total	:	21.7
Score for star read(s)	:	3.9
Score for read counts	:	18.5
Score for mfe	:	2.1
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	48
Mature read count	:	47
Loop read count	:	0
Star read count	:	1

```
                    Mature                 Star
5'- acgagggcuuuggcggggccuccuggagcugggcagauggaacaguccaucccggugcucucccuccagccuggcgcucuccagccucaacaagcacguggaggccguggc  -3'    obs
     acgagggcuuuggcggggccuccuggagcugggcagauggaacaguccaucccggugcucucccuccagccuggcgcucuccagccucaacaagcacguggaggccguggc         exp
     ..((((((....((.((((....(((((..(((((...((((........))))...)))))..)))))))))).))))))))..(((((.(((......)).)))))......   reads      mm         sample
     .........uuggcggggccuccuggagcuggg.......................................................................................   1          0          seq
     ..................cuccuggagcugggcagauggga...............................................................................   1          0          seq
     ..................cuccuggagcugggcagauggaaU..............................................................................   1          1          seq
     ...................uccuggagcugggcagauggg.................................................................................   1          0          seq
     ...................uccuggagcugggcagauggU.................................................................................   1          1          seq
     ...................uccuggagcugggcagauggga................................................................................   19         0          seq
     ...................uccuggagcugggcagauggaa................................................................................   4          0          seq
     ...................uccuggagcugggcagauggaU................................................................................   7          1          seq
     ....................ccuggagcugggcagauggga................................................................................   1          0          seq
     ....................ccuggagcugggcagauggaU................................................................................   9          1          seq
     ....................ccuggagcugggcagauggaa................................................................................   1          0          seq
     ....................ccuggagcugggcagauggaC................................................................................   1          1          seq
     ....................ccuggagcugggcagauggaaU...............................................................................   1          1          seq
     ..............................................uccauccccggugcucucccuccagU...............................................   1          1          seq
     ...............................................cccggugcucucccuccagA.....................................................   1          1          seq
```

novel-mir-candidate-309

Provisional ID	:	chr19_40455
Score total	:	1.9
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	192
Mature read count	:	192
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- ggaguggcugggagccuggacuccuggggcugagggaggugggguggggugaggacuuggaagucugaguucuguccaccuugcuucuucaggacaaggagccccgaggaa  -3'   exp
    (((((((((...))))...)))))(((((((..(((((((((((((((...(((((((((....)))))))))).))))))))))))))).........)))))))).....
    .....ggcugggagGcuggacucc.......................................................................................
    ...................acuccugggUcugagggag.........................................................................
    ...............................................gaggacuuggaagucugaguucuguccaccuugcuucuucag...................
    ..................................................................gaguuGuguccaccuugc...........................
    ...................................................................uucuguccaccuugcuucuucag...................
    ...................................................................uucuguccaccuGgcuucuucag...................
    ...................................................................ucugCccaccuugcuucu........................
    ...................................................................ucuguccaccuugcuucu........................
    ...................................................................ucuguccaccuugcuucuuc......................
    ...................................................................ucuguccaccuugcuucuuU......................
    ...................................................................ucuguccaccuugcuucuuca.....................
    ...................................................................ucuguccaccuugcuucuucag....................
    ...................................................................ucuguccaccuugcuucuucaA....................
    ...................................................................ucuguccacGuugcuucuucag....................
    ...................................................................ucuguccaccuugcuucuucagC...................
    ...................................................................ucuguccaccuugcuucuucagU...................
    ...................................................................ucuguccaccuugcuucuucagA...................
    ...................................................................ucuguccaccuugcuucuucagUa..................
    ...................................................................ucuguccaccuugcuucuucagAa..................
    ...................................................................cuguccaccuugcuucuucagU....................
```

reads	mm	sample
1	1	seq
1	1	seq
1	0	seq
8	1	seq
1	0	seq
1	1	seq
1	1	seq
5	0	seq
1	0	seq
1	1	seq
10	0	seq
19	0	seq
1	1	seq
1	1	seq
1	1	seq
126	1	seq
19	1	seq
1	1	seq
3	1	seq
1	1	seq

novel-mir-candidate-440

Provisional ID	:	chr12_29001
Score total	:	1.1
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.6
Score for randfold	:	-2.2
Score for cons. seed	:	3
Total read count	:	65
Mature read count	:	65
Loop read count	:	0
Star read count	:	0

Star **Mature**

```
5'- ucccugagccagacccuguagagggggauucacucauagaccgugugacuguucaguuagcacccccaaaccacagggcugaaagcuggggaggcugucccucgcagg  -3'   exp
    (((((.(((((((.(((((((.(.(((((...((.((((((....)))))).)).........)))))...).)))))))))...)))))))..((((.....)))).
```

reads	mm	sample
2	1	seq
4	1	seq
1	0	seq
1	0	seq
1	0	seq
1	0	seq
7	0	seq
1	0	seq
7	0	seq
1	0	seq
1	1	seq
26	0	seq
18	0	seq

```
ucccugagccagacAcug.......................................................................
ucccugagccagacAcugu......................................................................
.......................................................................aaaccacagggcugaaag.
.......................................................................aaaccacagggcugaaagc
.......................................................................aaaccacagggcugaaagcu
.......................................................................aaaccacagggcugaaagcug
.......................................................................aaccacagggcugaaagc.
.......................................................................aaccacagggcugaaagcu
.......................................................................aaccacagggcugaaagcug
.......................................................................accacagggcugaaagcu.
.......................................................................accacagggcugaaagcCg
.......................................................................accacagggcugaaagcug
.......................................................................ccacagggcugaaagcug
```

novel-mir-candidate-369

Provisional ID	:	chr2_5437
Score total	:	1.6
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.9
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	240
Mature read count	:	234
Loop read count	:	4
Star read count	:	2

```
                                 Star                    Mature
5'- guuaucucucccacuccaaaugaaucaauccgugugggccacagagaagcccgccccagcuucucucugagcugggcuucucucuggccacacaaaacauggcugaauuug  -3'    obs
    guuaucucucccacuccaaaugaaucaauccgugugggccacagagaagcccgcccagcuucucucugagcugggcuucucucuggccacacaaaacauggcugaauuug         exp
    ...............................(((((((((.(((((((((((.(((.......))).)).)))))))))).)))))))).................   reads     mm        sample
    ...........................uccgugugggccacagagaagU.......................................................   1         1         seq
    ...........................uccgugugggccacagagaagA.......................................................   1         1         seq
    ...........................uccgugugggccacagagaagcA......................................................   1         1         seq
    ...........................uccgugugggccacagagaagcc......................................................   1         0         seq
    ...........................ccgugugggccacagagaaA........................................................   1         1         seq
    ...........................ccgugugggccacagagaag........................................................   1         0         seq
    ...........................Acgugugggccacagagaag........................................................   1         1         seq
    ...........................ccgugugggccacagagaagc.......................................................   1         0         seq
    ...........................ccgugugggccacagagaagA.......................................................   1         1         seq
    ...........................ccgugugggccacagagaagcc......................................................   1         0         seq
    ...........................ccgugugggccacagagaagcA......................................................   1         1         seq
    ...........................cgugugggccacagagaag........................................................   1         0         seq
    ...........................cgugugggccacagagaagc.......................................................   1         0         seq
    ...........................cgugugggccacagagaagcccgA...................................................   2         1         seq
    ...........................cgugugggccacagagaagcccgU...................................................   1         1         seq
    ..............................ugugggccacagagaagcccgcc.................................................   1         0         seq
    .............................guggccacagagaagcccgcc....................................................   1         0         seq
    ...................................................caUcuucucucugagcug.................................   4         1         seq
    ....................................................agcuucucucugagcugA................................   1         1         seq
    .....................................................uucucucugagcugggcu...............................   1         0         seq
    ....................................................cucugagcugggcuucucucu.............................   1         0         seq
    ..................................................gagcugggcuucucucuggc...............................   1         0         seq
    ...................................................agcugggcuucucucuggc................................   8         0         seq
    ...................................................agcugggcuucucucuggcA...............................   3         1         seq
    ...................................................agcugggcuucucucuggcc...............................   11        0         seq
    ...................................................agcugggcuucucucugUcc...............................   1         1         seq
    ...................................................agcugggcuucucucuggcca..............................   3         0         seq
    ...................................................agcugggcuucucucuggccac.............................   1         0         seq
    ...................................................agcugggcuucucucuggccaA............................   1         1         seq
    ...................................................Cgcugggcuucucucuggccaca...........................   1         1         seq
    ...................................................agcugggcuucucucuggccacU...........................   16        1         seq
    ...................................................agcugggcuucucucuggccacC...........................   1         1         seq
    ...................................................agcugggcuucucucuggccaca...........................   46        0         seq
```

```
                                 Star                    Mature
guuaucucucccacuccaaaugaaucaauccgugugggccacagagaagcccgccccagcuucucucugagcugggcuucucucuggccacacaaaacauggcugaauuug
    ...............................................................aUcugggcuucucucuggccaca...................   1         1         seq
    ...............................................................ugggcuucucucuggccac.......................   1         0         seq
    ...............................................................Gggcuucucucuggccaca.......................   1         1         seq
    ...............................................................ugggcuucucucuggccacU......................   21        1         seq
    ...............................................................ugggcuucucucuggccaca......................   34        0         seq
    ...............................................................ugggcuucucucuggccacaU.....................   1         1         seq
    ...............................................................ugggcuucucucuggccacaA.....................   2         1         seq
    ...............................................................ugggcuucucucuggccacaAa....................   2         1         seq
    ...............................................................ugggcuucucucuggccacacC....................   25        1         seq
    ...............................................................Cgggcuucucucuggccacaca....................   1         1         seq
    ...............................................................ugggcuucucucuggccacacG....................   1         1         seq
    ...............................................................ugggcuucucucuggccacaca....................   12        0         seq
    ...............................................................ugggcuucucucuggccacaGa....................   2         1         seq
    ...............................................................ugggcuucucucuggccacacU....................   35        1         seq
    ...............................................................ugggcuucucucuggccacacCa...................   1         1         seq
    ...............................................................ugggcuucucucuggccacacaaU..................   1         1         seq
    ......................................................................aaaacauggcugGauuug.....................   2         1         seq
```

novel-mir-candidate-385

Provisional ID	:	chr19_39903
Score total	:	1.5
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.8
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	199
Mature read count	:	199
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- gacugaaugaaaaagcaagggcugugaugaccugggggagaggaggggaccagggcugugaauuaccuuccCUUCCCCACCCUCUCCUGCAGCaaaucagccggcaccagg  -3'   exp
    ..................((((((((((...((((((((((.(((((..((((..(........)..)))))))))..)))))))).)))...))))..)))))..))...   reads     mm        sample
    ...........................................................uccCUUCCCCACCCUCUCCU.......................   1         0         seq
    ..............................................................cccUUCCCCACCCUCUCCUG......................   1         0         seq
    ...............................................................cccUUCCCCACCCUCUCCUGUa...................   1         1         seq
    ..............................................................ccUUCCCCACCCUCUCCUG.......................   4         0         seq
    ..............................................................ccUUCCCCACCCUCUCCUGC......................   1         0         seq
    ..............................................................ccUUCCCCACCCUCUCCUGCa.....................   5         0         seq
    ..............................................................ccUUCCCCACCCUCUCCUGCag....................   6         0         seq
    ..............................................................ccUUCCCCACCCUCUCCUGCaU....................   1         1         seq
    ..............................................................ccUUCCCCACCCUCUCCUGCagU...................   12        1         seq
    ..............................................................ccUUCCCCACCCUCUCCUGCagA...................   1         1         seq
    ..............................................................ccUUCCCCACCCUCUCCUGCagUa..................   1         1         seq
    .............................................................cUUCCCCACCCUCUCCUG.........................   1         0         seq
    .............................................................cUUCCCCACCCUCUCCUGCa......................   5         0         seq
    .............................................................cGUCCCCACCCUCUCCUGCag.....................   1         1         seq
    .............................................................cUUCCCCACCCUCUCCUGCag.....................   26        0         seq
    .............................................................cUUCCCCACCCUCGCCUGCag.....................   1         1         seq
    .............................................................cUUCCCCACCCUCACCUGCag.....................   1         1         seq
    .............................................................cUUCCCCACCCUCUCCUGCaU.....................   4         1         seq
    .............................................................cUUCCCCACCCUCUCCUGCaA.....................   7         1         seq
    .............................................................cUUCCCCACCCUCUCCUGCagU....................   54        1         seq
    .............................................................cUUCCCCACCCUCUCCUGCagA....................   56        1         seq
    .............................................................cUUCCCCACCCUCUCCUGCagG....................   1         1         seq
    .............................................................cUUCCCCACCCUCUCCUGCagAa...................   8         1         seq
    .............................................................cUUCCCCACCCUCUCCUGCagUa...................   1         1         seq
```

novel-mir-candidate-258

Provisional ID	:	chr22_43942
Score total	:	2.1
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.4
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	272
Mature read count	:	272
Loop read count	:	0
Star read count	:	0

```
                Star                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                Mature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
gucuguccgcguguggaaggucccgcuccgcguguggaaggucccguccgcguguggaaggucgucagugugugguggaaggucccgucccgcguguggaaggucccgucccgcgugugg
```

5'-		-3'	exp
.....	(((((((((((.((.((.((((((((((((.((.((.((((((((((((...)))).)).)))))))).)).).).)).)).)))))))))))))).)).-)).)))))))))))	reads	mm	sample
.....gugugguggaagguccgcuccgcguguggaaggucccguc		3	0	seq
.....uccgcuccgcguguggaag		3	0	seq
.....uccgcuccgcguguggaagg		9	0	seq
.....uccgcuccgcguguggaaggu		21	0	seq
.....uccgcuccgcguguggaaggGc		3	1	seq
.....Gccgcuccgcguguggaagguc		3	1	seq
.....uccgcuccgcgugCggaagguc		3	1	seq
.....uccgcuccgcguguggaagCuc		3	1	seq
.....uccgcuccgcguguggaagAuc		3	1	seq
.....uccgcuccgcguguggaagNuc		12	1	seq
.....uccgcuccgcguguggaagguA		21	1	seq
.....uccgcuccgcguguggaagguc		573	0	seq
.....uccgcuccgcguguggaagguU		3	1	seq
.....uccgcuccgUguguggaaggucc		3	1	seq
.....uccgcuccgcgAguggaaggucc		3	1	seq
.....uccgcuccgcguguggaaggucU		60	1	seq
.....uccgcuccgcguguggaaggucc		57	0	seq
.....uccgcuccgcguguggaaggCcc		3	1	seq
.....uccgcuccgcguguggaaggucA		6	1	seq
.....uccgcuccgcguguggaaggucCU		27	1	seq
.....gugugguggaaggucccgcuccgcguguggaaggucccguc		3	0	seq
.....uccgcuccgcguguggaag		3	0	seq
.....uccgcuccgcguguggaagg		9	0	seq
.....uccgcuccgcguguggaaggu		21	0	seq
.....uccgcuccgcguguggaaggu		21	1	seq
.....uccgcuccgcguguggaagNuc		12	1	seq
.....uccgcuccgcgugCggaagguc		3	1	seq
.....uccgcuccgcguguggaagguc		573	0	seq
.....uccgcuccgcguguggaagguU		3	1	seq
.....uccgcuccgcguguggaagCuc		3	1	seq
.....uccgcuccgcguguggaaggGc		3	1	seq
.....Gccgcuccgcguguggaagguc		3	1	seq
.....uccgcuccgcguguggaagAuc		3	1	seq
.....uccgcuccgcguguggaaggCcc		3	1	seq

```
                Star                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                Mature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
gucuguccgcguguggaaggucccgcuccgcguguggaaggucccguccgcguguggaaggucgucagugugugguggaaggucccgucccgcguguggaaggucccgucccgcgugugg
```

.....uccgcuccgcguguggaaggucc	57	0	seq
.....uccgcuccgcguguggaaggucU	60	1	seq
.....uccgcuccgUguguggaaggucc	3	1	seq
.....uccgcuccgcguguggaaggucA	6	1	seq
.....uccgcuccgcgAguggaaggucc	3	1	seq
.....uccgcuccgcguguggaaggucU	27	1	seq
.....uccgucCguguguggaaggucc	1	1	seq
.....gugugguggaaggucccgcuccgcguguggaaggucccguc	3	0	seq
.....uccgcuccgcguguggaag	3	0	seq
.....uccgcuccgcguguggaagg	9	0	seq
.....uccgcuccgcguguggaaggu	21	0	seq
.....uccgcuccgcguguggaagNuc	12	1	seq
.....uccgcuccgcguguggaagAuc	3	1	seq
.....uccgcuccgcgugCggaagguc	3	1	seq
.....uccgcuccgcguguggaagCuc	3	1	seq
.....uccgcuccgcguguggaagguc	573	0	seq
.....Gccgcuccgcguguggaagguc	3	1	seq
.....uccgcuccgcguguggaaggGc	3	1	seq
.....uccgcuccgcguguggaagguA	21	1	seq
.....uccgcuccgcguguggaagguU	3	1	seq
.....uccgcuccgUguguggaaggucc	3	1	seq
.....uccgcuccgcguguggaaggucA	6	1	seq
.....uccgcuccgcguguggaaggucU	60	1	seq
.....uccgcuccgcgAguggaaggucc	3	1	seq
.....uccgcuccgcguguggaaggucc	57	0	seq
.....uccgcuccgcguguggaaggCcc	3	1	seq
.....uccgcuccgcguguggaagguccU	27	1	seq

novel-mir-candidate-254

Provisional ID	:	chr11_27304
Score total	:	2.2
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.5
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	18
Mature read count	:	18
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- ugggaggggaggcaggccugcaggcagggguccaggcuggagaagaggccagggcaggggucucaugccugggaccugugcugagagcacaccugcccaccucccuucu  -3'   exp
    .((((((.(.((((((..(((.((((.((((((((((..((((....((....)).....))))..)))))).)))))....)))..)))))))).))))))....   reads    mm       sample
    ........................caggggAccaggcuggaga.......................................................   1        1        seq
    ...........................................................ccugggaccugugcugag.......................   1        0        seq
    ...........................................................ccugggaccugugcugaga......................   1        0        seq
    ..........................................................Acugggaccugugcugagag......................   1        1        seq
    ...........................................................ccugggaccugugcugagag......................   3        0        seq
    ..........................................................cugggaccugugcugaga.......................   6        0        seq
    ..........................................................cugggaccugugcugagag......................   3        0        seq
    ...........................................................ugggaccugugcugagag......................   2        0        seq
    ..........................................................uUggaccugugcugagag.......................   1        1        seq
    ...................................................................................agcacaccugcccaGcuc......   1        1        seq
```

novel-mir-candidate-181

Provisional ID	:	chr16_35039
Score total	:	14.7
Score for star read(s)	:	3.9
Score for read counts	:	11.9
Score for mfe	:	1.8
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	35
Mature read count	:	34
Loop read count	:	0
Star read count	:	1

Star Mature

```
5'- gacaccgcgagguaggcuggaugagggagggggugaggggagggggugggggucuguccaacugcugagugaccccgacccaccaccaggaaugagggcucugggccgg  -3'   obs
    gacaccgcgagguaggcuggaugagggagggggugagggagggggugggggucuguccaacugcugagugaccccgacccaccaccaggaaugagggcucugggccgg         exp
    ...(((....)))...((((.(.((((.....((....((.((.((((.((((((..((........))..)))))).))))).)).))....))).....)))).).))))   reads   mm   sample
    ......................................ggggagggggugggggCu.......................................................   1       1    seq
    ...........................................................gugaccccgacccaccaccagA...................   1       1    seq
    ...........................................................gugaccccgacccaccaccagU...................   1       1    seq
    ...........................................................ugaccccgacccaccaccagA....................   8       1    seq
    ...........................................................ugaccccgacccaccaccagU....................   9       1    seq
    ...........................................................ugaccccgacccaccaccagAa...................   3       1    seq
    ...........................................................ugaccccgacccaccaccagUa...................   3       1    seq
    ...........................................................ugaccccgacccaccaccagUaa..................   8       1    seq
    ..............................................................accccgacccaccaccUg....................   1       1    seq
```

novel-mir-candidate-382

Provisional ID	:	chr15_33667
Score total	:	1.5
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.8
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	102
Mature read count	:	102
Loop read count	:	0
Star read count	:	0

Mature Star

```
5'- uggcaucucaacuaagaggccccaggcucugaaccagcagccccucugacagcugggccagacuaagcuggggccccaugauguccccggcuuccuggaagucagcccc   -3'    exp
    .(((.(((......))).(((((((..((((..(((((.............)))))..))))).....)))))))...((((.(((.((...)).))).)))))))..   reads     mm        sample
    ..................gUccccaggcucugaaccagc.......................................................................   1         1         seq
    ....................ccccaggcucugaaccag........................................................................   8         0         seq
    ....................ccccaggcucugaaccagc.......................................................................   69        0         seq
    ....................ccccaggcucugaaGcagc.......................................................................   1         1         seq
    ....................ccccagCcucugaaccagc.......................................................................   18        1         seq
    ....................ccccaggcucugaaccagca......................................................................   3         0         seq
    ....................ccccaggcucugaaccagcaA.....................................................................   1         1         seq
    ....................ccccaggcucugaaccagcagcc...................................................................   1         0         seq
```

novel-mir-candidate-118

Provisional ID	:	chr6_17826
Score total	:	39.6
Score for star read(s)	:	3.9
Score for read counts	:	32.8
Score for mfe	:	1.9
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	76
Mature read count	:	75
Loop read count	:	0
Star read count	:	1

Star **Mature**

```
5'- cacugcaagaucagaacuggcugaggggcacagguggagaagccagagcuccaccugagggcuacuccugagguaguagguggugugcaggauguggagcagagcucag  -3'   obs
    cacugcaagaucagaacuggcugaggggcacagguggagaagccagagcuccaccugagggcuacuccugagguaguagguggugugcaggauguggagcagagcucag        exp
    ..(((((..((((..((((.((.((((((.(((((((((.........)))))))))...)))...))).)).)))).))).))))).....((((...)))))..   reads   mm   sample
    ...........cagaaAuggcugaggggc.......................................................................   1       1    seq
    ......................................................cugagguaguagguUgug.......................   45      1    seq
    ......................................................cugagguaguagguUgugu......................   1       1    seq
    .......................................................ugagguaguaggugguAu......................   1       1    seq
    .......................................................ugagguaguagguggugu......................   1       0    seq
    .......................................................ugagguaguagguggugug.....................   2       0    seq
    .......................................................uUagguaguagguggugug.....................   1       1    seq
    .......................................................ugagguaguagguggugugU....................   5       1    seq
    .......................................................ugagguaguagguUgugugc....................   14      1    seq
    .......................................................ugagguaguagguggugugA....................   1       1    seq
    .......................................................ugagguaguagguUgugugca...................   2       1    seq
    .......................................................ugagguaguagguggugugAa...................   2       1    seq
```

novel-mir-candidate-266

Provisional ID	:	chr22_43689
Score total	:	2.1
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.4
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	54
Mature read count	:	54
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- caguccuggccugggggaggcaggugccagucaggugggggagacugaccccuggguaggguucccagggguaggguggccugacuggcaggcacaggacugagaggcca  -3'    exp
    (((((((((((.....))))...(((((((((((........((..((((((((.....)))))))))..))...)))))))))))....)))))))).......
    ...........................................................Cguaggugggccugacuggc.....................
    ...........................................................Cguaggugggccugacuggca....................
    ...........................................................guaggugggccugacuggc.....................
    ...........................................................guaggugggccugacuggca....................
    ...........................................................Uuaggugggccugacuggca....................
    ...........................................................Gaggugggccugacuggca.....................
    ...........................................................uaggugggccuAacuggca.....................
    ...........................................................uaggugggccugacuggcC.....................
    ...........................................................uaggugggccugacuggca.....................
    ...........................................................uaggugggccugacuggcaA....................
    ...........................................................uaggugggccugacuggcaC....................
```

reads	mm	sample
1	1	seq
2	1	seq
7	0	seq
2	0	seq
1	1	seq
1	1	seq
3	1	seq
1	1	seq
32	0	seq
2	1	seq
2	1	seq

novel-mir-candidate-377

Provisional ID	:	chr19_40752
Score total	:	1.5
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2
Score for randfold	:	-2.2
Score for cons. seed	:	3
Total read count	:	95
Mature read count	:	95
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- ggccacaugcgugugcugcuccuagugccccccagcccucagaggcggagacaaagccccuucccugguccacuggggacugggcucugaccagcgcuugcucuuggcugcc  -3'   exp
    (((((...(((.((((((.((..((.((((((((((.((...((((.((........))))))....))...)))))....)))).)))).))))))).)))...)))))...   reads    mm       sample
    ........................................ggcggagacaaagccccuucccugguccacuggggacugggcucugacc....................   1        0        seq
    ..............................................ucccugguccacuggggacugggcucugac....................   1        0        seq
    ..............................................ucccugguccacuggggacugggcucugacc...................   1        0        seq
    ........................................................ucacuggggacugggcucugacc...................   1        0        seq
    ..............................................................acuggggacugggcucugacU...................   1        1        seq
    ..............................................................acuggggacuggCcucugacc...................   1        1        seq
    ........................................................acuggggacuggUcucugacc...................   3        1        seq
    ..............................................................acuggggacugggcucugGcc...................   1        1        seq
    ..............................................................acuggggacugggcucGgacc...................   1        1        seq
    ........................................................acuggggacugggcucugacc...................   85       0        seq
    ..............................................................acuggggacugggcucugNcc...................   1        1        seq
    ..............................................................Ccuggggacugggcucugacc...................   1        1        seq
    ..............................................................acuggggacugggcucugaccagcgcuugcucuuggcugcc   1        0        seq
```

novel-mir-candidate-278

Provisional ID	:	chr17_38658
Score total	:	2
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.3
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	117
Mature read count	:	114
Loop read count	:	0
Star read count	:	3

Star Mature

```
5'- cguccccuucccgggagcugucggucuggaucugaggGAGCUCUCUGUGUGGGCUCUgcugcgcugggagccugucacgguaggagcucucccgguaccaguguccacagaccg  -3'   obs
    cguccccuucccgggagcugucggucuggaucugagggagcucucugugugggcucugcugcgcugggagccugucacgguaggagcucucccgguaccaguguccacagaccg        exp
    ..((((.....)))).((((.((.((((..(((.(((((((((((((((((((((.........)))))))).)))))..))))))))).)))..))))...)))))).....  reads   mm   sample
    cguccccuucccgggagcugucggucu.......................................................................................  1       0    seq
    .....cuucccgggagcugucggucuggaucug.................................................................................  1       0    seq
    ........cccgggagcugucggucuggaucug.................................................................................  1       0    seq
    ..................gucggucuggaucugagggagcucucu.....................................................................  1       0    seq
    .....................ggucuggaucugagggagcucucugugugggcucugcu.......................................................  1       0    seq
    ......................ucuggaucugagggagcucucugugugggcucugcu........................................................  1       0    seq
    ............................ucugagggagcucucugugugggcucugcugcugugggagcc..............................................  1       0    seq
    ....................................gagcucucugugugggcu.............................................................  1       0    seq
    ....................................gagcucucugugugggcuU............................................................  1       1    seq
    ....................................gagcucucugugugggcuUu...........................................................  1       1    seq
    .......................................ucucugugugggcucugcu.........................................................  1       0    seq
    ..............................................uguggcucugcugcgcugggag...............................................  1       0    seq
    ....................................................................ccugucacgguaggagcu............................  1       0    seq
    ....................................................................ccugucacgguaggagcGcu..........................  1       1    seq
    ....................................................................ccugucacgguaggagcucu..........................  2       0    seq
    ....................................................................ccugucacgguaggagcucucccg......................  9       0    seq
    ....................................................................ccugucacgguaggagcucucccgU.....................  2       1    seq
    ....................................................................ccugucacgguaggagcucucccgA.....................  1       1    seq
    ....................................................................cugucacgguaggagcucucc........................  1       0    seq
    ....................................................................cugucacgguaggagcucucccg......................  77      0    seq
    ....................................................................cugucacgAuaggagcucucccg......................  2       1    seq
    ....................................................................cugucacgguagUagcucucccg......................  1       1    seq
    ....................................................................cugucacgguaggagcucucccgU.....................  11      1    seq
    ....................................................................cugucacgguaggagcucucccgA.....................  1       1    seq
    ....................................................................cugucacgguaggagcucucccggA....................  1       1    seq
    ....................................................................cugucacgguaggagcucucccgAu....................  1       1    seq
    ....................................................................cugucacgguaggagcucucccggu....................  1       0    seq
    ......................................................................acgguaggagcucucccggu.......................  1       0    seq
    .......................................................................cgguaggagcucucccgU........................  1       1    seq
    ..........................................................................ucccgguaccaguguccacaga...................  1       0    seq
```

novel-mir-candidate-364

Provisional ID	:	chr10_24047
Score total	:	1.6
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.9
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	102
Mature read count	:	101
Loop read count	:	1
Star read count	:	0

Star Mature

```
5'- cagcccuccuuaguuccugaggcccagcucccuggagggcacagccuucuacuuuccaggcuccucugggaaccacgaggaagagaggaggcgggauugucuugucca -3'   exp
    ..(((.(((((..((((((.(((((((...((((((((((...))))......)))))).....)))))..))).)..)))))..)))))))).((((......)))).   reads   mm   sample
    ............................ucccuggagggcacagcc.......................................................   1       0    seq
    ...........................................................gaaccacgaggaagagaggaggcgggauug.........   1       0    seq
    ...........................................................aaccacgaggaagagagA.....................   3       1    seq
    ...........................................................aaccacgaggaagagagg.....................   76      0    seq
    ...........................................................aaccacgaggaagagaggaA...................   1       1    seq
    ...........................................................aaccacgaggaagagaggaAgc.................   1       1    seq
    ...........................................................accacgaggaagagagga....................   6       0    seq
    ...........................................................accacgaggaagagagAa....................   1       1    seq
    ...........................................................accacgaggaagagaggaA...................   1       1    seq
    ...........................................................ccacgaggaagagagAag....................   1       1    seq
    ...........................................................ccacgaggaagagaggaA....................   7       1    seq
    ...........................................................ccacgaggaagagaggaAg...................   2       1    seq
    ...........................................................ccacgaggaagagaggUggc.................   1       1    seq
    ...........................................................ccacgaggaagagaggUggcg................   1       1    seq
```

novel-mir-candidate-212

Provisional ID	:	chr16_35873
Score total	:	4.7
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.4
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	45
Mature read count	:	45
Loop read count	:	0
Star read count	:	0

Mature Star

```
5'- gaagagaacugguguccaaaagcaggacgguggccauggcauugacccacaggugccgucugccaguucaccaucucacuaacaaaugccaaccauucgggcacuac  -3'    exp
    ...((((..(((((.......((((.(((((((.(..((((......))))..).)))))))))).....)))))))))..........((((.........))))....   reads     mm        sample
    ................cGaaagcaggacgguggcc.................................................................   1         1         seq
    ..................aaCagcaggacgguggcca................................................................   1         1         seq
    ..................aGagcaggacgguggcca................................................................   2         1         seq
    ..................aNagcaggacgguggcca................................................................   1         1         seq
    ...................aagcaggacgguggccau...............................................................   1         0         seq
    ....................agcaggacgguggccCug..............................................................   2         1         seq
    ....................Cgcaggacgguggccaug..............................................................   1         1         seq
    ....................aAcaggacgguggccaug..............................................................   1         1         seq
    ....................agcaggacgguggccaug..............................................................   28        0         seq
    ....................agcaggacgguggUcaug..............................................................   3         1         seq
    ....................agcaggacgguggccauU..............................................................   1         1         seq
    ....................agcaggacgguggccauAg.............................................................   1         1         seq
    ....................agcaggacgguggccauggg............................................................   1         0         seq
    .....................gcaggacgguggccauggg............................................................   1         0         seq
    .....................caggacgguggccauggg............................................................   2         0         seq
```

novel-mir-candidate-281

Provisional ID	:	chr1_4902
Score total	:	2
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.3
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	20
Mature read count	:	20
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- gcuggggacuccugaucaggugaccuggcacaccugcuggagagggcccaggugagcuucaccucccgccaccugcggaggcugagcccagggcagggggccaggcaca   -3'    exp
    (((.((..((((((.((....))(((((((.(((((.(((.((..(((..(((((((...)))))).))).))))))).))).(((((((.))))))).)).)))...   reads     mm        sample
    ........cuccugaucaUgugaccu.......................................................................   1         1         seq
    .........uccugaucaUgugaccug......................................................................   1         1         seq
    ...............................................................accugcggaggcugagcc.....................   2         0         seq
    ...............................................................accugcggaggcugagccc....................   15        0         seq
    ................................................................ccugcggaggcugagccc....................   3         0         seq
```

novel-mir-candidate-48

Provisional ID	:	chr12_27984
Score total	:	95.5
Score for star read(s)	:	3.9
Score for read counts	:	88.3
Score for mfe	:	2.3
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	185
Mature read count	:	184
Loop read count	:	0
Star read count	:	1

Mature **Star**

```
5'- ggggcuggguca aaaagaguc gaggaccccccugccuggccu ucgagucuggagggag gccaggaggaggagguccugu gagcaccacccagaagccugcgggggaagcag  -3'   obs
    ggggcuggguca aaaagaguc gaggaccccccugccuggccu ucgagucuggagggag gccaggaggaggagguccugugg gcaccacccagaagccugcgggggaagcag        exp
    ....((((((.......((((((((((.(((.((((((((((.........))))))))))))).)).)))))).)))).....)))))).....((((.......))))   reads   mm   sample
    ggggcuggguca aaaagaguc gaggC.......................................................................................   1       1    seq
    ................gucgaggaccccccugcc.................................................................................   4       0    seq
    ................gucgaggaccccccugccuggc.............................................................................   1       0    seq
    ................ucgaggaccccccugcc..................................................................................   5       0    seq
    ................ucgaggaccccccugccuggc..............................................................................   12      0    seq
    ................ucgaggaccccccugccuggU..............................................................................   1       1    seq
    ................ucgaggaccccccugccuggcc.............................................................................   8       0    seq
    ................ucgaggaccccccugccuggcA.............................................................................   2       1    seq
    ................ucgaggaccccccugccuggccu............................................................................   2       0    seq
    ................ucgaggaccccccugccuggcAuu...........................................................................   1       1    seq
    ................cgaggacNcccccugccuggc..............................................................................   1       1    seq
    ................cgaggaccccccugccuggc...............................................................................   15      0    seq
    ................cgaggaccccccugccuNgc...............................................................................   2       1    seq
    ................cUaggaccccccugccuggcc..............................................................................   1       1    seq
    ................cgaggaccccccugccuggcc..............................................................................   18      0    seq
    ................cgaggaccccccugccuggcU..............................................................................   2       1    seq
    ................cgaggacAcccccugccuggccu............................................................................   1       1    seq
    ................cgaggaccccccugccuggccu............................................................................   20      0    seq
    ................cgaggaccccccugccuggccA............................................................................   3       1    seq
    ................cgaggaccccccugccuggcAu............................................................................   1       1    seq
    ................cgaggaccccccugccuggccuu...........................................................................   3       0    seq
    ................cgaggaccccccugccuggccuA...........................................................................   2       1    seq
    ...................gaggaccccccugccuggc.............................................................................   6       0    seq
    ...................gaggaccccccugccuggcG............................................................................   1       1    seq
    ...................gaggaccccccugccuggcA............................................................................   1       1    seq
    ...................gaggaccccccugccuggcU............................................................................   1       1    seq
    ...................gaggaccccccugccuggcc............................................................................   15      0    seq
    ...................gaggaccccccugccuggcAu...........................................................................   1       1    seq
    ...................gaggaccccccugccuggccu...........................................................................   43      0    seq
    ...................gaggaccccccugccuggccuA..........................................................................   5       1    seq
    ...................gaggaccccccugccuggccuG..........................................................................   1       1    seq
    ...................gaggaccccccugccuggccuu..........................................................................   5       0    seq
    ...................gaggaccccccugccuggccuuU........................................................................   1       1    seq
```

Mature **Star**

```
ggggcuggguca aaaagaguc gaggaccccccugccuggccu ucgagucuggagggag gccaggaggaggagguccugu gagcaccacccagaagccugcgggggaagcag
...................gaggaccccccugccuggccuuG.......................................................   1   1   seq
......................acccccccugccuggccu.........................................................   2   0   seq
......................acccccccugccuggccuG........................................................   1   1   seq
.......................................gccaggaggaggagguccugu.....................................   1   0   seq
```

novel-mir-candidate-425

Provisional ID	:	chr3_9497
Score total	:	1.2
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.5
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	34
Mature read count	:	34
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- cucucucuggcaucacugggauguucugaucgucgccuguuucagucggccagccuuccucaccgcacucaccggccccaucgcggaugucccagucgaucacagacgcg  -3'   exp
    .....((((..((((((((((((((((((.(..(((.((...((((((..((.....))..)))).)))).)).))).))))).))))))))))))).))).))..))))....   reads     mm        sample
    ...........................................................................Uccggccccaucgcggaug.....................   1         1         seq
    ...........................................................................accggccccaucgcggaug.....................   1         0         seq
    ...........................................................................accggccccaucgcggaugu....................   12        0         seq
    ...........................................................................accggccccaucgcggaugA....................   2         1         seq
    ...........................................................................accggccccaucgcggauguc...................   9         0         seq
    ...........................................................................accggccccaucgcggauguU...................   1         1         seq
    ...........................................................................accggccccaucgcggaugucA..................   3         1         seq
    ...........................................................................accggccccaucgcggaugucc..................   3         0         seq
    ...........................................................................accggccccaucgcggaugucU..................   2         1         seq
```

novel-mir-candidate-200

Provisional ID	:	chr11_25665
Score total	:	5.4
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.1
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	29
Mature read count	:	29
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- auccacuuaauccccauguaaaccuggaugguguaggcugggcugucugaggccgggacacccagccucccucugacucuccgccucucccccacagcuccuggggaugguccu -3'   exp
    .........(((((((.(.....(((...((.(((((.((((.(((.(((((.((((...))).)))))).....))).))))))))).))...)))..).)))))))......   reads   mm   sample
    ...........................................................gccuGccucugacucucc.............................   1       1    seq
    ...........................................................ucugacucuccgccucuc.............................   1       0    seq
    ...........................................................ucugacucuccgccucucccA..........................   1       1    seq
    ...........................................................ucugacucuccgccucucccc..........................   4       0    seq
    ...........................................................ucugacucuccgccucucccG..........................   1       1    seq
    ...........................................................ucugacucuccgccucucccc..........................   1       0    seq
    ...........................................................ucugacucuccgccucucccU..........................   3       1    seq
    ...........................................................ucugacucuccgccucucccU..........................   4       1    seq
    ...........................................................ucugacucuccgccucucccca.........................   3       0    seq
    ...........................................................ucugacucuccgccucucccaU........................   3       1    seq
    ...........................................................ucugacucuccgccucucccaA........................   2       1    seq
    ...........................................................ucugacucuccgccucucccaAa.......................   1       1    seq
    ...........................................................ucugacucuccgccucucccaGa.......................   3       1    seq
    ...........................................................ucugacucuccgccucucccaUa.......................   1       1    seq
    ..............................................................ugacucuccgccucucccacaA.....................   1       1    seq
    ...............................................................................ccAcacagcuccuggggau......   1       1    seq
```

novel-mir-candidate-331

Provisional ID	:	chr15_34184
Score total	:	1.8
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.3
Score for randfold	:	-2.2
Score for cons. seed	:	3
Total read count	:	154
Mature read count	:	153
Loop read count	:	0
Star read count	:	1

```
                                   Star                                   Mature
5'- ccggugguccugaacucccccgugguccugggccgagagacugggggagcggacaggggaaggccugcuccggcccgggggcucugcgcacacccaugggagaccggggcgc  -3'   obs
    ccggugguccugaacucccccgugguccugggccgagagacugggggagcggacaggggaaggccugcuccggcccgggggcucugcgcacacccaugggagaccggggcgc        exp
    ......((((((...((.((((((((...((.((.(((...((.(((...((((((((.......)))).))))).))).))..))).)).)).))...)))))))).)).)))))).. reads     mm        sample
    ccggugguccugaacucccc.......................................................................................... 1         0         seq
    ..ggugguccugaacucccccguggucc.................................................................................. 1         0         seq
    ......guccugaacucccccgugguu................................................................................... 1         0         seq
    .......uccugaacucccccgugguccugggc............................................................................. 1         0         seq
    ........ccugaacucccccguggucc.................................................................................. 1         0         seq
    .........cugaacucccccgugguccu................................................................................. 1         0         seq
    .........cugaacucccccgugguccuggg.............................................................................. 1         0         seq
    ............aacucccccgugguccugggccga.......................................................................... 2         0         seq
    ........................guccugggccgagagacug.................................................................... 1         0         seq
    ...............................gccgagagacugggggagc............................................................ 1         0         seq
    ......................................acugggggagcggacaggggaaggccugcuccggGccggggg.............................. 1         1         seq
    ...............................................gagcggacaggggaaggccug.......................................... 1         0         seq
    ..............................................gcggacaggggaaggGcug.......................................... 1         1         seq
    ....................................................................uccggcccgggggcucugcg....................... 1         0         seq
    ....................................................................uccggcccgggggcucugcgU...................... 1         1         seq
    ....................................................................uccggcccgggggcucugcgca..................... 1         0         seq
    ....................................................................uccggcccgggggcucugcgcaU.................... 1         1         seq
    ....................................................................uccggcccgggggcucugcgcacaU.................. 1         1         seq
    ....................................................................uccggcccgggggcucugcgcacaccc................ 1         0         seq
    ....................................................................ccggcccgggggcucugcgca..................... 4         0         seq
    ....................................................................ccggcccgggggcucugcgcac.................... 6         0         seq
    ....................................................................ccggcccgggggcucugcgcaGa................... 1         1         seq
    ....................................................................ccggcccgggggcucugcgcaca.................... 3         0         seq
    ....................................................................ccggcccgggggcucugcgcacU.................... 1         1         seq
    ....................................................................ccggcccgggggcucugcgcacCc................... 1         1         seq
    ....................................................................ccggcccgggggcucugcgcacaU.................. 1         1         seq
    ....................................................................ccggcccgggggcucugcgcacac................... 3         0         seq
    ....................................................................ccggcccgggggcucugcgcacacU.................. 2         1         seq
    ....................................................................ccggcccgggggcucugcgcacacc................... 4         0         seq
    ....................................................................ccggcccgggggcucugcgcacacccUu................ 1         1         seq
    ....................................................................ccggGccgggggcucugcgcacacccaugggagac........ 1         1         seq
    ......................................................................cggcccgggggcucugcg........................ 2         0         seq
    ......................................................................cggcccgggggcucugcgc....................... 2         0         seq
```

novel-mir-candidate-149

Provisional ID	:	chr7_17940
Score total	:	27.4
Score for star read(s)	:	3.9
Score for read counts	:	24.1
Score for mfe	:	2.2
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	59
Mature read count	:	57
Loop read count	:	0
Star read count	:	2

Mature Star

```
5'- gcuuggugcgcccaggaccccggccacgcgccucugucuuggggauggcaucuaggcgguggugaggugggcccaggaccuggccgugccucugccucaggcagcguccgu  -3'   obs
    gcuuggugcgcccaggaccccggccacgcgccucugucuuggggauggcaucuaggcgguggugaggugggcccaggaccuggccgugccucugccucaggcagcguccgu        exp
    .......((((((((((.((..((((((..(((.(((((((.(((.......)))))))).)))..))))))..)).)))))..)))))).(((((...)))))).......   reads   mm   sample
    ....................ccggccacgcgccucugu.....................................................................   1       0    seq
    ....................ccggccacgcgccucuguc....................................................................   1       0    seq
    ....................ccggccacgcgccucugucu...................................................................   16      0    seq
    ....................ccggccacgcgccucugucuu..................................................................   2       0    seq
    ....................ccggAcacgcgccucugucuug.................................................................   1       1    seq
    ....................ccggccacgcgccucugucuuU.................................................................   1       1    seq
    ....................ccggccacgcgccucugucuug.................................................................   18      0    seq
    ....................ccggccacgcgccucuguGuug.................................................................   1       1    seq
    ....................ccggccacgcgccucugucuugU................................................................   9       1    seq
    ....................ccggccacgcgccucugucuugC................................................................   1       1    seq
    ....................ccggccacgcgccucugucuugA................................................................   6       1    seq
    ..........................................uaggcgguggugaggugggccc...............................................   2       0    seq
    ......................................................................caggaccuggccgugccucugccu.............   1       0    seq
    .......................................................................accuggccgugccucugccucaggcagcgu....   1       0    seq
```

novel-mir-candidate-419

Provisional ID	:	chr5_13679
Score total	:	1.3
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.6
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	77
Mature read count	:	77
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- aauagcaaggguggccaggugccucccccuaacaacugcucugccccguccacaucuccaugcuguccuaucacggagcucugugugaacgggucuugagagucccgucgcug -3'    exp
    ..((((..(((.((((....)))).)))......(((.(((.(((((((.(((((((((.((.........)).)))).....)))))).)))))))...)))))).....))))
```

reads	mm	sample
2	0	seq
5	1	seq
4	0	seq
2	0	seq
5	1	seq
1	1	seq
1	0	seq
5	0	seq
12	0	seq
1	1	seq
1	1	seq
17	0	seq
3	1	seq
3	1	seq
1	1	seq
4	0	seq
1	1	seq
5	0	seq
1	0	seq
1	1	seq
1	0	seq
1	1	seq
1	0	seq
1	0	seq

```
aucacggagcucugugugaacggg
ucacggagcucugugugaacggA
ucacggagcucugugugaacggg
ucacggagcucugugugaacgggu
ucacggagcucugugugaacgggA
ucacggagcucugugugaacggguA
cacggagcucugugugaacg
cacggagcucugugugaacgg
cacggagcucugugugaacggg
cacggagcucugGugugaacggg
cacggagcucugugugaacggA
cacggagcucugugugaacgggu
cacggagcucugugugaacgggA
cacggagcucugugugaacgggG
cacggagcucugugugaacgggguG
cacggagcucugugugaacgggguc
cacggagcGcugugugaacgggguc
cacggagcucugugugaacgggucu
cacggagcucugugugaacgggucuu
cacggagcucugugugaacgggucuuU
acggagcucugugugaacgggguc
acggagcucugugugaacCgggguc
agcucugugugaacgggucuugagagucc
gugugaacgggucuugagaguc
```

novel-mir-candidate-285

Provisional ID	:	chr17_37246
Score total	:	2
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.3
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	25
Mature read count	:	25
Loop read count	:	0
Star read count	:	0

Mature Star

```
5'- ugaugccagcugggcaagccgagggcgggcgggcggucuguggcacuucugccacucccccagcacugacccuuuggcugggacuccagcuaggcauguugccuggucc  -3'    exp
    ..(((((((((((..(((((((((((((((.((.((...((((((....)))))).))))).)))-)))-)))-)))-)))))).....)))))))).))))).............
    ....................gagggcgggcgggcggAc.......................................................................
    ....................gagggcgggcgggcgguc.......................................................................
    ....................gagggcgggcggUcgguc.......................................................................
    ....................gagggcgggcgggcgguA.......................................................................
    ....................gagggcgggcgggcggucugA....................................................................
    ....................gagggcgggcgggcggucuguA...................................................................
    ....................Ggggcgggcgggcggucu.......................................................................
    ..........................................acuucugccacucccccagcacugacccuuuggcug.............................
    ............................................................cagcacugacccuuuggcugggacucc.....................
```

reads	mm	sample
1	1	seq
17	0	seq
1	1	seq
2	1	seq
1	1	seq
2	1	seq
1	1	seq
1	0	seq
1	0	seq

novel-mir-candidate-308

Provisional ID	:	chr18_39146
Score total	:	1.9
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	37
Mature read count	:	37
Loop read count	:	0
Star read count	:	0

Mature Star

```
5'- ucuucagguggaugugggcuucggcuacacucagcuuccuugggcccugcugaccccagggaggcugugggaagccggugccacggccugccucccacugccagcuuua  -3'   exp
    .....((.(((..(((((((.(((((((.(.(((((((((((((((..(....)..))))))))))))).)).).)))))).))).)).((....)).)))).)))..)).)...   reads   mm   sample
    ...................cuucggcuacacucagcuuccu.....................................................................   1       0    seq
    ...................uucggcuacacucagcuucc......................................................................   1       0    seq
    ...................uucggcuacacucagcuuccu.....................................................................   32      0    seq
    ...................uucggcuacacucaCcuuccu.....................................................................   1       1    seq
    ...................uucggcuacacucagcuuccuuU...................................................................   1       1    seq
    ...................ucggcuacacucagcuuccu......................................................................   1       0    seq
```

novel-mir-candidate-319

Provisional ID	:	chr3_9254
Score total	:	1.8
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	20
Mature read count	:	20
Loop read count	:	0
Star read count	:	0

Mature **Star**

```
5'- ugcuggaacccuagggggagggagcugagagccuugcccuuucaggugcuuagcugaggugcugcucagacaggggaggccuucaggugaggcccccuauucugccagugaa  -3'   exp
    .(((((.....(((((((...(.(((((.((((..((((.((..(((.(((.(.....)))))).).)).)))))))).)))))).)...)))))))).....)))))...   reads   mm   sample
    ...............gggaggGgcugagagccu.....................................................................   1       1    seq
    ....................gagcugagagccuugcccu.................................................................   18      0    seq
    ....................agcugagagccuuAcccu..................................................................   1       1    seq
    ....................agcugagagccuugcccu..................................................................   1       0    seq
```

novel-mir-candidate-164

Provisional ID	:	chr7_20049
Score total	:	20.6
Score for star read(s)	:	3.9
Score for read counts	:	20
Score for mfe	:	-0.4
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	51
Mature read count	:	49
Loop read count	:	0
Star read count	:	2

Mature **Star**

```
5'- uuugauucccucugugauucccuuuuccuuuugugccuaggcugaaacaacagagcuguaucucuuuuaaguaaaauuagccuggguguuaugcagagagaugggcau  -3'   obs
    uuugauucccucugugauucccuuuuccuuuugugccuaggcugaaacaacagagcuguaucucuuuuaaguaaaauuagccuggguguuaugcagagagauggggcau        exp
    ..................((((.((((..((((((((((((((((....((((((......))))......))....)))))))))))).....)))))))))..)))))...   reads   mm   sample
    ...............aCuccucuuuuccuuuugugcc.......................................................................   1       1    seq
    ................uccucuuuuccuuuugugccuG......................................................................   2       1    seq
    ..................ccucuuuuccuuuugugccuG......................................................................   15      1    seq
    ...................cucuuuuccuuuugugcc........................................................................   1       0    seq
    ...................cucuuuuccuuuugugccuG......................................................................   21      1    seq
    ....................ucuuuuccuuuugugccuG......................................................................   2       1    seq
    .....................cuuuuccuuuugugccuG......................................................................   8       1    seq
    ...........................................................................gguguuaugcagagagaA.......   2       1    seq
```

novel-mir-candidate-207

Provisional ID	:	chr17_36561
Score total	:	5
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.7
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	4113
Mature read count	:	4113
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- ccaggcucgugccuccauccuuccaggaggaaacaaggacacaaagguggcacaccugccucccaaguuccucccugucccuccaggagcuggaucucagagcugcuaaaga  -3'    exp
    ...(((((.....((((...((((.(((((((....(((((.((...((.((((....)))).))...)))))))).....)))))))..))))).))))).....)))))).....
    ..........................................................uccucccuguccuccagA.......................  reads     mm        sample
    ..........................................................cucccuguccuccaggag.......................  2         0         seq
    ..........................................................cucccuguccuccaggagcu.....................  14        0         seq
    ..........................................................Nucccuguccuccaggagcu.....................  1         1         seq
    ..........................................................cucccuguccuccaggagcugU...................  1         1         seq
    ..........................................................Ccccuguccuccaggagc.......................  1         1         seq
    ..........................................................ucccuguccuccaggagG.......................  1         1         seq
    ..........................................................ucAcuguccuccaggagc.......................  1         1         seq
    ..........................................................ucccuguccuccaggagc.......................  458       0         seq
    ..........................................................uUccuguccuccaggagc.......................  1         1         seq
    ..........................................................ucccuguccuccaggagU.......................  13        1         seq
    ..........................................................ucccuguccuccCggagc.......................  1         1         seq
    ..........................................................ucccuguccuccGggagc.......................  1         1         seq
    ..........................................................uccAuguccuccaggagcu.....................  1         1         seq
    ..........................................................ucccuguccGccaggagcu.....................  2         1         seq
    ..........................................................ucccuguccuGcaggagcu.....................  1         1         seq
    ..........................................................Ncccuguccuccaggagcu.....................  2         1         seq
    ..........................................................uccGuguccuccaggagcu.....................  1         1         seq
    ..........................................................ucccuguccuccaggGgcu.....................  2         1         seq
    ..........................................................ucccuguUcuccaggagcu.....................  1         1         seq
    ..........................................................ucccuguAcuccaggagcu.....................  3         1         seq
    ..........................................................ucccuguccuccUggagcu.....................  1         1         seq
    ..........................................................ucccuguccuAcaggagcu.....................  3         1         seq
    ..........................................................Gcccuguccuccaggagcu.....................  4         1         seq
    ..........................................................ucccuguccuccagAagcu.....................  1         1         seq
    ..........................................................ucUcuguccuccaggagcu.....................  1         1         seq
    ..........................................................ucccuguccCccaggagcu.....................  1         1         seq
    ..........................................................ucccuguccucAaggagcu.....................  1         1         seq
    ..........................................................ucccuguccuccaggagcu.....................  3292      0         seq
    ..........................................................ucccuguccuccagCagcu.....................  1         1         seq
    ..........................................................ucccuguccuccaCgagcu.....................  2         1         seq
    ..........................................................ucccuguccucGaggagcu.....................  1         1         seq
    ..........................................................uccUuguccuccaggagcu.....................  3         1         seq
    ..........................................................ucccuguGcuccaggagcu.....................  2         1         seq
```

Star Mature

```
ccaggcucgugccuccauccuuccaggaggaaacaaggacacaaagguggcacaccugccucccaaguuccucccugucccuccaggagcuggaucucagagcugcuaaaga
.......................................................................Ccccuguccuccaggagcu.....................  2         1         seq
.......................................................................ucccuguccuccaUgagcu.....................  1         1         seq
.......................................................................ucccuguccuUcaggagcu.....................  4         1         seq
.......................................................................ucccuguccuccaggCgcu.....................  2         1         seq
.......................................................................ucccuguccuccaggaAcu.....................  1         1         seq
.......................................................................ucccugGccuccaggagcu.....................  1         1         seq
.......................................................................ucccuguNcuccaggagcu.....................  2         1         seq
.......................................................................ucccAguccuccaggagcu.....................  2         1         seq
.......................................................................ucccuguccAccaggagcu.....................  1         1         seq
.......................................................................ucGcuguccuccaggagcu.....................  1         1         seq
.......................................................................ucccuguccuccaggagcG.....................  37        1         seq
.......................................................................ucccuguCUuccaggagcu.....................  1         1         seq
.......................................................................ucccuguccuccaggagcC.....................  1         1         seq
.......................................................................ucccuguccuccaggagGug....................  1         1         seq
.......................................................................ucccuguccuccaggagcAg....................  6         1         seq
.......................................................................ucccuguccuccaggagcug....................  116       0         seq
.......................................................................ucccuguccuccaggagcGg....................  2         1         seq
.......................................................................ucccuguccuccaggagcCg....................  1         1         seq
.......................................................................ucccuguccuccaggagcuCg...................  14        1         seq
.......................................................................ucccuguccuccaggagcuUg...................  1         1         seq
.......................................................................ucccuguccuccaggagcugA...................  13        1         seq
.......................................................................ucccuguccuccaggagcugU...................  21        1         seq
.......................................................................ucccuguccuccaggagcuAg...................  15        1         seq
.......................................................................ucccuguccuccaggagcugC...................  1         1         seq
.......................................................................ucccuguccuccaggagcuCga..................  13        1         seq
.......................................................................ucccuguccuccaggagcugUa..................  4         1         seq
.......................................................................ucccuguccuccaggagcugCa..................  1         1         seq
.......................................................................ucccuguccuccaggagcuAga..................  16        1         seq
.......................................................................ucccuguccuccaggagcugAa..................  3         1         seq
.......................................................................ucccuguccuccaggagcuAgau.................  2         1         seq
.......................................................................ucccuguccuccaggagcuCgau.................  3         1         seq
.......................................................................ucccuguccuccaggagcugUau.................  1         1         seq
.......................................................................ucccuguccuccaggagcuggau.................  1         0         seq
.......................................................................cccuguccuccaggagcu......................  1         0         seq
```

novel-mir-candidate-381

Provisional ID	:	chr17_36580
Score total	:	1.5
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.8
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	46
Mature read count	:	44
Loop read count	:	0
Star read count	:	2

Mature **Star**

```
5'- cccauccugggcugcggcuccacacuuccccagcguggccugcauuucuauugggcagcuggcgcuccggaagugucccgcacucuuuauuaucgacucugcgccuuugggca  -3'   obs
    cccauccugggcugcggcuccacacuuccccagcguggccugcauuucuauugggcagcuggcgcuccggaagugucccgcacucuuuauuaucgacucugcgccuuugggca        exp
    ((((...)))).(((((....(((((((((..((((((.(.((((...........)))).).)))))..)))))))))))))).....................(((....))).   reads     mm      sample
    ....................cacacuuccccagcguggccug.......................................................................   19        0       seq
    ....................cacacuuccccagcguggccugU......................................................................   20        1       seq
    ....................cacacuuccccagcguggccugA......................................................................   2         1       seq
    ....................acacuuccccagcguggccugA......................................................................   1         1       seq
    ....................acacuuccccagcguggccugUau....................................................................   1         1       seq
    .......................acuuccccagcguggccug.......................................................................   1         0       seq
    ..........................................................agUuggcgcuccggaagugu...................................   1         1       seq
    ..........................................................Uuggcgcuccggaaguguccg..................................   1         1       seq
```

novel-mir-candidate-40

Provisional ID	:	chr10_23447
Score total	:	107.2
Score for star read(s)	:	3.9
Score for read counts	:	104.1
Score for mfe	:	1.9
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	216
Mature read count	:	212
Loop read count	:	0
Star read count	:	4

Star **Mature**

```
5'- agacgccgccagccaaucacgcuuucgauccugccgugcgagcccgaggcgcugcgaacggugccuaacgucagacgucucgaggcucgcguuccauggaggaagcccu  -3'   obs
    agacgccgccagccaaucacgcuuucgauccugccgugcgagcccgaggcgcugcgaacggugccuaacgucagacgucucgaggcucgcguuccauggaggaagcccu        exp
    ....................((((((..(((((...((((((((((((((((...(((........))))))..)))))))..))))))))...)).)))))))))...  reads   mm   sample
    ................................ugccgugcgagcccgaggcgcugc.......................................................  1       0    seq
    ....................................cgugcgagcccgaggcgcugcgaacggugccua.........................................  1       0    seq
    ...................................ugcgagcccgaggcgcugcga..........................................................  1       0    seq
    ....................................ugcgagcccgaggcgcugcgaac........................................................  2       0    seq
    ..........................................cgaggcgcugcgaacggu.....................................................  1       0    seq
    ...........................................................gcgaacggugccuaacgucagacgu..............................  1       0    seq
    ..............................................................acggugccuaacgucagacgu...............................  1       0    seq
    ...........................................................cggugccuaacgucagacg....................................  2       0    seq
    ..............................................................ggugccuaacgucagacgu...............................  1       0    seq
    ...............................................................gugccuaacgucagacgu..............................  1       0    seq
    ....................................................................ccuaacgucagacgucucgaggcucgcguu................  3       0    seq
    ..........................................................................gucagacgucucgaggcu......................  1       0    seq
    ...............................................................................ucagacgucucgaggcuc.....................  2       0    seq
    ...............................................................................ucagacgucucgaggcucg....................  8       0    seq
    ...............................................................................ucagacgucucgaggcucgA...................  12      1    seq
    ...............................................................................ucagacgucucgaggcucgc...................  4       0    seq
    ...............................................................................ucagacgucucgaggcucgcg..................  17      0    seq
    ...............................................................................Gcagacgucucgaggcucgcg..................  1       1    seq
    ...............................................................................ucagacgucucgaggcucNcg..................  1       1    seq
    ...............................................................................ucagacgucucgaggcucgcU..................  2       1    seq
    ...............................................................................ucagacgucucgaggcucgcA..................  2       1    seq
    ...............................................................................Ncagacgucucgaggcucgcgu.................  1       1    seq
    ...............................................................................ucagacgucucgaggcucgcgA................  43      1    seq
    ...............................................................................ucagacgucucgaggcucgcgu................  23      0    seq
    ...............................................................................ucagacgucucgaggcucNcgu................  1       1    seq
    ...............................................................................ucagacgucucgaggcucgcgAu...............  4       1    seq
    ...............................................................................ucagacgucucgaggcucgcguu...............  50      0    seq
    ...............................................................................ucagacgucucgaggcucgcguuA..............  8       1    seq
    ...............................................................................ucagacgucucgaggcucgcguuU..............  10      1    seq
    ...............................................................................ucagacgucucgaggcucAcguuc..............  1       1    seq
    ...............................................................................ucagacgucucgaggcucgcguuc..............  18      0    seq
    ..................................................................................agacgucucgaggcucgcguuccC............  1       1    seq
    .....................................................................................cgucucgaggcucgcguuccauggaggaagcc..  1       0    seq
```

Star **Mature**

```
agacgccgccagccaaucacgcuuucgauccugccgugcgagcccgaggcgcugcgaacggugccuaacgucagacgucucgaggcucgcguuccauggaggaagcccu
.......................................................................cucgaggcucgcguuccaug...........  2   0   seq
.......................................................................cucgaggcucgcguuccauggaggaagccc.  1   0   seq
.......................................................................cgcguuccauggaggaagc...  1   0   seq
.......................................................................cgcguuccauggaggaagcc..  1   0   seq
```

novel-mir-candidate-338

Provisional ID	:	chr1_2688
Score total	:	1.8
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	30
Mature read count	:	29
Loop read count	:	0
Star read count	:	1

Star Mature

```
5'- aaagacaggcugggucuuuguuggggccgugagagggacucagggugccaaaccugauggucgccccagccagcucaccgucucucccaggugacuugccugcccuggaa  -3'   obs
    aaagacaggcugggucuuuguuggggccgugagagggacucagggugccaaaccugauggucgccccagccagcucaccgucucucccaggugacuugccugcccuggaa        exp
    .....(((((.(((((((((..((((((.(((((..(((.((..((((((((.......)))).)))))).))))..)))))).))))))..)))))..)))))))))).....   reads   mm   sample
    .............gucuuuguugggggccgug.......................................................................   1       0    seq
    ........................gggccgugagagggacuc.............................................................   1       0    seq
    ...........................................................ucgccccagccagcucaccgucucucccC.....................   1       1    seq
    ..............................................................ccagccagcucaccgucucucccagA...................   1       1    seq
    .............................................................agccagcucaccgucucucccag.....................   1       0    seq
    ...........................................................gccagcucaccgucucucccag.....................   9       0    seq
    ..............................................................gccagcucaccgucucucccagA...................   1       1    seq
    .............................................................ccagcucaccgucucucccag.....................   13      0    seq
    .............................................................ccagcucaccgucucucccagA...................   5       1    seq
```

novel-mir-candidate-325

Provisional ID	:	chr15_33956
Score total	:	1.8
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	112
Mature read count	:	112
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- cuuccgcgcagagcucucccagggacuccggucucuccccagcucgcccccuaggggacacagguggugcugcgugaguccgggcucccagugagaguccaugcaauuguc  -3'   exp
    .......((((.((((((.(.((((.(((((.(((..(.(((((((((((...)))-----)))))).))))).)).))).)))))).))))).).)))))))..).).))).....   reads   mm   sample
    .Cuccgcgcagagcucuccc.....................................................................................   1       1    seq
    ..uccgcgcagagcucucccagggacuccggucucucc...................................................................   1       0    seq
    ...ccgcgcagagcucucccagggacuccg...........................................................................   1       0    seq
    .....gcgcagagcucucccagggacuc.............................................................................   1       0    seq
    ........cagagcucucccagggacuccggucucucc...................................................................   1       0    seq
    ........................................................................ugcgugaguccgggcucA.......................   4       1    seq
    ........................................................................ugcgugaguccgggcucc.......................   6       0    seq
    ........................................................................ugcgugaguGcgggcuccc......................   1       1    seq
    ........................................................................ugcgugaguccgggcuccc......................   2       0    seq
    ........................................................................ugcgugaguccgggcuccca.....................   4       0    seq
    ........................................................................ugcgugaguccgggcucccU.....................   2       1    seq
    ........................................................................ugcgugagucUgggcucccag....................   1       1    seq
    ........................................................................ugcgugCguccgggcucccag....................   1       1    seq
    ........................................................................ugcgugaguccgggcucccag....................   42      0    seq
    ........................................................................ugcgugaguccgggcucccagu...................   38      0    seq
    ........................................................................ugcgugaguccgggcuccNagu...................   1       1    seq
    ........................................................................ugcgugaguccgggcucccagA...................   5       1    seq
    ........................................................................ugcgugaguccgggcucccagAg..................   1       1    seq
    ........................................................................ugcgugaguccgggcucccaguA..................   3       1    seq
    ........................................................................ugcgugaguccgggcucccagAga.................   1       1    seq
```

novel-mir-candidate-36

Provisional ID	:	chr19_40407
Score total	:	132.9
Score for star read(s)	:	3.9
Score for read counts	:	130.1
Score for mfe	:	1.7
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	267
Mature read count	:	265
Loop read count	:	0
Star read count	:	2

Star **Mature**

```
5'- ccacagauguaugugcggccagugacuuccccaggaguguggagggguggugaggagagcaccugggcucucuaccccucuccucacagaaguaccugaaacuagguc  -3'   obs
    ccacagauguaugugcggccagugacuuccccaggaguguggagggguggugaggaggagcaccugggcucucuaccccucuccucacagaaguaccugaaacuagguc        exp
    .((((......)))).(((((((.........((((.((((.(((((((((((.(((.(((....)))...))).)))))))).))))).)))).......)))).))).))))   reads   mm   sample
    ...................................aguguggagggguggugag.......................................................   1       0    seq
    ...................................aguguggagggguggugaggag....................................................   1       0    seq
    ...................................aguguggagggguggugaggagagc.................................................   1       0    seq
    ...............................................................accugggcucucuaccccu...........................   1       0    seq
    ...............................................................cucucuaccccucuccucacaga.......................   1       0    seq
    ...............................................................cucucuaccccucuccucacagaC......................   1       1    seq
    ...............................................................cucucuaccccucuccucCcagaa......................   1       1    seq
    ...............................................................ucucuaccccucuccucaca..........................   13      0    seq
    ...............................................................ucucuaccccucuccucacaA........................   1       1    seq
    ...............................................................ucucuaccccucuccucacag........................   25      0    seq
    ...............................................................uGucuaccccucuccucacaga.......................   1       1    seq
    ...............................................................ucucuaccccucuccucaAaga.......................   1       1    seq
    ...............................................................ucucuaccccucuccucacagG......................   1       1    seq
    ...............................................................ucucuaccccucuccucacagU......................   12      1    seq
    ...............................................................Ncucuaccccucuccucacaga.......................   1       1    seq
    ...............................................................ucucuaccccucuccucacaga.......................   198     0    seq
    ...............................................................ucucuaccccucuccucacaCa......................   1       1    seq
    ...............................................................ucucuaccccucuccucaUaga......................   1       1    seq
    ...............................................................ucucuaccccucuccucaGaga......................   1       1    seq
    ...............................................................ucuGuaccccucuccucacaga.......................   1       1    seq
    ...............................................................ucucuaccccucuccucacagaU......................   1       1    seq
    ...............................................................cucuaccccucuccucacaga.......................   4       0    seq
```

novel-mir-candidate-197

Provisional ID	:	chr22_44130
Score total	:	5.5
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.2
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	25699
Mature read count	:	25699
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- ugcgugucuggcacagagcgaaguccugggugggggcccuggagguguccuggaaaaaacgggacaccucccuguccuccaggagcucacccuaagucacagaagcccaug  -3'   exp
    ((.((.((((..((((.(.((..((((((...(((((...(((((((((((.......)))))))))))..)))))))))))..))).).))..))..)))).)).)).)..   reads   mm   sample
    ..........................................................cucccuguccuccaggag..........................   2       0    seq
    ..........................................................Nucccuguccuccaggagcu........................   1       1    seq
    ..........................................................cucccuguccuccaggagcu........................   14      0    seq
    ..........................................................cucccuguccuccaggagcuc.......................   29      0    seq
    ..........................................................cucccuguccuccaggagNuc.......................   1       1    seq
    ..........................................................cucccuguccuccaggagcucU......................   5       1    seq
    ..........................................................cucccuguccuccaggagcuca......................   17      0    seq
    ..........................................................uUccuguccuccaggagc..........................   1       1    seq
    ..........................................................ucAcuguccuccaggagc..........................   1       1    seq
    ..........................................................ucccuguccuccCggagc..........................   1       1    seq
    ..........................................................ucccuguccuccaggagG..........................   1       1    seq
    ..........................................................Ccccuguccuccaggagc..........................   1       1    seq
    ..........................................................ucccuguccuccGggagc..........................   1       1    seq
    ..........................................................ucccuguccuccaggagU..........................   13      1    seq
    ..........................................................ucccuguccuccaggagc..........................   458     0    seq
    ..........................................................ucccuguUuccaggagcu..........................   1       1    seq
    ..........................................................ucccuguccuccaggagcG........................   37      1    seq
    ..........................................................Gcccuguccuccaggagcu........................   4       1    seq
    ..........................................................ucccuguccuGaggagcu.........................   1       1    seq
    ..........................................................ucGcuguccuccaggagcu........................   1       1    seq
    ..........................................................ucccuguccuccaggGgcu........................   2       1    seq
    ..........................................................ucccugGccuccaggagcu........................   1       1    seq
    ..........................................................Ccccuguccuccaggagcu........................   2       1    seq
    ..........................................................uccAuguccuccaggagcu........................   1       1    seq
    ..........................................................ucccAguccuccaggagcu........................   2       1    seq
    ..........................................................ucUcuguccuccaggagcu........................   1       1    seq
    ..........................................................ucccuguccuccagCagcu........................   1       1    seq
    ..........................................................ucccuguccGccaggagcu........................   2       1    seq
    ..........................................................ucccuguccuUcaggagcu........................   4       1    seq
    ..........................................................ucccuguccuAcaggagcu........................   3       1    seq
    ..........................................................ucccuguccuccaggaAcu........................   1       1    seq
    ..........................................................ucccuguccuGcaggagcu........................   1       1    seq
    ..........................................................ucccuguAcuccaggagcu........................   3       1    seq
    ..........................................................ucccuguUcuccaggagcu........................   1       1    seq
```

Star Mature

```
ugcgugucuggcacagagcgaaguccugggugggggcccuggagguguccuggaaaaaacgggacaccucccuguccuccaggagcucacccuaagucacagaagcccaug
    ..........................................................ucccuguccuccagAagcu........................   1       1    seq
    ..........................................................uccUuguccuccaggagcu........................   3       1    seq
    ..........................................................uccGuguccuccaggagcu........................   1       1    seq
    ..........................................................ucccuguccuccaggCgcu........................   2       1    seq
    ..........................................................ucccuguccuccaUgagcu........................   1       1    seq
    ..........................................................ucccuguccuccaggagcC........................   1       1    seq
    ..........................................................ucccuguNcuccaggagcu........................   2       1    seq
    ..........................................................ucccuguGcuccaggagcu........................   2       1    seq
    ..........................................................ucccuguccCccaggagcu........................   1       1    seq
    ..........................................................ucccuguccuccaCgagcu........................   2       1    seq
    ..........................................................ucccuguccuccUggagcu........................   1       1    seq
    ..........................................................ucccuguccuccaggagcu........................   3292    0    seq
    ..........................................................Ncccuguccuccaggagcu........................   2       1    seq
    ..........................................................ucccuguccucAaggagcu........................   1       1    seq
    ..........................................................ucccuguccAccaggagcu........................   1       1    seq
    ..........................................................ucccGuguccuccaggagcuc......................   4       1    seq
    ..........................................................uNccuguccuccaggagcuc......................   4       1    seq
    ..........................................................ucAcuguccuccaggagcuc......................   2       1    seq
    ..........................................................ucccuguccucAaggagcuc......................   4       1    seq
    ..........................................................ucccuguNcuccaggagcuc......................   3       1    seq
    ..........................................................ucccuguccuccaggagcCc......................   3       1    seq
    ..........................................................ucccugucGuccaggagcuc......................   6       1    seq
    ..........................................................ucccuguccuccaAgagcuc......................   1       1    seq
    ..........................................................ucccCguccuccaggagcuc......................   1       1    seq
    ..........................................................uUccuguccuccaggagcuc......................   8       1    seq
    ..........................................................ucccuguGcuccaggagcuc......................   3       1    seq
    ..........................................................Gcccuguccuccaggagcuc......................   20      1    seq
    ..........................................................ucGcuguccuccaggagcuc......................   3       1    seq
    ..........................................................ucccuguccucUaggagcuc......................   3       1    seq
    ..........................................................uGccuguccuccaggagcuc......................   13      1    seq
    ..........................................................uccAuguccuccaggagcuc......................   2       1    seq
    ..........................................................ucccuguccucccCggagcuc.....................   3       1    seq
    ..........................................................ucccuguAcuccaggagcuc......................   7       1    seq
    ..........................................................ucccuguccuccaggagcuc......................   12251   0    seq
    ..........................................................ucUcuguccuccaggagcuc......................   1       1    seq
    ..........................................................ucccugucAuccaggagcuc......................   2       1    seq
    ..........................................................ucccuguccuccaggagUuc......................   3       1    seq
    ..........................................................ucccuguccucNuccaggagcuc...................   2       1    seq
    ..........................................................ucccuguccuUcaggagcuc......................   5       1    seq
    ..........................................................ucccuguccuccagUagcuc......................   2       1    seq
    ..........................................................ucccuguccuccaggCgcuc......................   1       1    seq
    ..........................................................ucccuguccuccagAagcuc......................   2       1    seq
    ..........................................................ucccuCuccuccaggagcuc......................   1       1    seq
    ..........................................................ucccuguccuAcaggagcuc......................   16      1    seq
    ..........................................................ucccuguccucGaggagcuc......................   2       1    seq
    ..........................................................uccccNguccuccaggagcuc.....................   1       1    seq
    ..........................................................ucccuguccuccaUgagcuc......................   2       1    seq
    ..........................................................ucccugucUuccaggagcuc......................   2       1    seq
    ..........................................................ucccuguccuccGggagcuc......................   9       1    seq
    ..........................................................ucccuguccucCUggagcuc......................   3       1    seq
    ..........................................................uccUuguccuccaggagcuc......................   4       1    seq
    ..........................................................ucccuguccuccaggGgcuc......................   3       1    seq
    ..........................................................ucccugAccuccaggagcuc......................   1       1    seq
    ..........................................................ucccugGccuccaggagcuc......................   1       1    seq
    ..........................................................Ncccuguccuccaggagcuc......................   5       1    seq
    ..........................................................ucccuguccuccaggagGuc......................   6       1    seq
    ..........................................................ucccuguccuGcaggagcuc......................   5       1    seq
    ..........................................................ucccuguccuccaggaUcuc......................   1       1    seq
    ..........................................................ucccuguccAccaggagcuc......................   5       1    seq
    ..........................................................ucccAguccuccaggagcuc......................   2       1    seq
    ..........................................................ucccuAuccuccaggagcuc......................   3       1    seq
    ..........................................................ucccuguccGccaggagcuc......................   6       1    seq
    ..........................................................Ccccuguccuccaggagcuc......................   11      1    seq
    ..........................................................ucccuguccuccaggagcCca.....................   13      1    seq
    ..........................................................ucccuguccuUcaggagcuca.....................   3       1    seq
    ..........................................................ucccuguccuccaggagcuca.....................   5136    0    seq
    ..........................................................ucccuguccCccaggagcuca.....................   1       1    seq
    ..........................................................ucccuguccuccaUgagcuca.....................   3       1    seq
    ..........................................................ucccuguccuccGggagcuca.....................   3       1    seq
    ..........................................................uccAuguccuccaggagcuca.....................   3       1    seq
```

Star Mature

ugcgugucuggcacagagcgaaguccuggggugggcccuggagguguccuggaaaaaacgggacaccucccuguccuccaggagcucacccuaagucacagaagcccaug

ucccugucAuccaggagcuca	5	1	seq
ucccuguccuccaAgagcuca	1	1	seq
ucccuAuccuccaggagcuca	1	1	seq
ucccuguUcuccaggagcuca	1	1	seq
ucccuguccGccaggagcuca	2	1	seq
uNccuguccuccaggagcuca	1	1	seq
ucccuguccuccaggagcuGa	13	1	seq
ucccuguccuccaggagcucG	14	1	seq
Gcccuguccuccaggagcuca	3	1	seq
ucccuguccuccagUagcuca	1	1	seq
ucccuguccuccaggCgcuca	1	1	seq
ucccugGccuccaggagcuca	2	1	seq
ucccuguccuccaggaAcuca	1	1	seq
uGccuguccuccaggagcuca	9	1	seq
ucccuguccucCggagcuca	2	1	seq
ucccuguccuccaggagcucU	988	1	seq
ucccuCuccuccaggagcuca	1	1	seq
ucUcuguccuccaggagcuca	1	1	seq
ucAcuguccuccaggagcuca	3	1	seq
ucccCguccuccaggagcuca	1	1	seq
ucccuguccucGaggagcuca	1	1	seq
ucGcuguccuccaggagcuca	1	1	seq
ucccugucGuccaggagcuca	2	1	seq
Ncccuguccuccaggagcuca	2	1	seq
ucccuguccuGcaggagcuca	2	1	seq
ucccuguccuAcaggagcuca	6	1	seq
uUccuguccuccaggagcuca	4	1	seq
ucccuguccuccaggagcGca	6	1	seq
ucccuguccuccaCgagcuca	1	1	seq
ucccuguccucUggagcuca	2	1	seq
ucccuguccuccaggagcNca	19	1	seq
ucccuguccuccaggUgcuca	1	1	seq
uccGuguccuccaggagcuca	3	1	seq
ucccuguGcuccaggagcuca	3	1	seq
Ccccuguccuccaggagcuca	4	1	seq
ucccugAccuccaggagcuca	2	1	seq
ucccuguccuccaggagGuca	4	1	seq
ucccuguNcuccaggagcuca	1	1	seq
ucccuguccucUaggagcuca	7	1	seq
ucccuguccuccaggagUuca	2	1	seq
ucccuguccucAaggagcuca	2	1	seq
Gcccuguccuccaggagcucac	2	1	seq
ucccuguccuccaggagcucaU	295	1	seq
uNccuguccuccaggagcucac	1	1	seq
ucccuguccuAcaggagcucac	1	1	seq
uGccuguccuccaggagcucac	2	1	seq
ucccuguccuccaggagGucac	1	1	seq
ucccuguccuccaggagcucaG	24	1	seq
ucccugAccuccaggagcucac	1	1	seq
ucccuguccuccaggagcucaA	278	1	seq
Ccccuguccuccaggagcucac	1	1	seq
ucccuguccuccaggagUucac	3	1	seq
ucccuguccuccaggagcuAac	3	1	seq
ucccuguccuccaggagcNcac	4	1	seq
ucccuguGcuccaggagcucac	1	1	seq
ucccuguAcuccaggagcucac	1	1	seq
Ncccuguccuccaggagcucac	2	1	seq
ucccuguccuccaggagcucac	1187	0	seq
ucccuguccuccaggagcAcac	6	1	seq
uccNuguccuccaggagcucac	1	1	seq
ucccugcUuccaggagcucac	1	1	seq
ucccuguccuccaggaAcucac	1	1	seq
ucccuguccuccaggagcucUc	1	1	seq
ucccuguccuccaggagcCcac	2	1	seq
ucccuguccuccaggagcucaUc	3	1	seq
ucccCguccuccaggagcucacc	1	1	seq
ucccuguccuccaggagcucacA	1069	1	seq
Ccccuguccuccaggagcucacc	1	1	seq
ucccuguccuccaggagcucaGc	1	1	seq
ucccuguccuccaggagcucaAc	16	1	seq

Star Mature

ugcgugucuggcacagagcgaaguccuggggugggcccuggagguguccuggaaaaaacgggacaccucccuguccuccaggagcucacccuaagucacagaagcccaug

ucccuguccuccaggagcucacc	26	0	seq
ucccuguccuccaggagcucacGc	58	1	seq
ucccuguccuccaggagcucaccU	12	1	seq
ucccuguccuccaggagcucacUc	1	1	seq
ucccuguccuccaggagcucacAc	3	1	seq
ucccuguccuccaggagcucacGcu	6	1	seq
ucccuguccuccaggagcucacAcu	3	1	seq
ucccuguccuccaggagcucaAccu	1	1	seq
cccuguccuccaggagcu	1	0	seq
cccuguccuccaggagcuc	4	0	seq
Uccuguccuccaggagcucac	1	1	seq
ccuguccuccaggagcuc	2	0	seq
ccuguccuccaggagcuca	3	0	seq
ccuguccuccaggagcucac	3	0	seq
cuguccuccaggagcuca	1	0	seq

novel-mir-candidate-106

Provisional ID	:	chr11_25687
Score total	:	43.6
Score for star read(s)	:	3.9
Score for read counts	:	36.3
Score for mfe	:	2.4
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	83
Mature read count	:	80
Loop read count	:	0
Star read count	:	3

Star Mature

```
5'- gcugguguacccggcugugggccagcgugugagcucagggaaggaggggugggccccaggaggguccagcccugccaugccuccugcccucagcuccaggagcugcaccgagc  -3'   obs
    gcugguguacccggcugugggccagcgugugagcucagggaaggaggggugggccccaggaggguccagcccugccaugccuccugcccucagcuccaggagcugcaccgagc        exp
    (((((.....)))))..(((..((((.(.((((((.((((.((((((.(((((...(((.(......)))))))))).))))))..))))).))).))))..)))...
```

reads	mm	sample
1	0	seq
1	1	seq
1	1	seq
1	1	seq
1	0	seq
1	0	seq
1	0	seq
1	1	seq
1	0	seq
1	1	seq
1	1	seq
9	0	seq
1	1	seq
2	1	seq
1	1	seq
5	0	seq
10	1	seq
7	1	seq
1	1	seq
3	0	seq
5	0	seq
1	1	seq
12	1	seq
15	1	seq
1	1	seq
2	1	seq

```
.................ugggccagcgugugagcucagggaaggag.................................................
.................ugggccagcgugugagcucagggaaggaggggugggccA.........................................
...........................Cugagcucagggaaggag...................................................
...................................ucagggaaggaggggugggccccaU.....................................
...................................ucagggaaggaggggugggccccagg....................................
....................................cagggaaggaggggugggccccag.....................................
.......................................................................ccugccaugccuccugcccuc.....
.......................................................................ccugccaugccuccugcccuA.....
.......................................................................ccugccaugccuccugcccuca....
.......................................................................ccugccaugccuccugcccucaA...
.......................................................................cugccaugccuccugcccucG.....
.......................................................................cugccaugccuccugcccuca.....
.......................................................................cugccaugccuccugcccucU.....
.......................................................................cugccaugccuccugcccucaA....
.......................................................................cugccaugccuccugcccucaU....
.......................................................................cugccaugccuccugcccucag.....
.......................................................................cugccaugccuccugcccucagU....
.......................................................................cugccaugccuccugcccucagA....
.......................................................................cugccaugccuccugcccucagAu...
......................................................................ugccaugccuccugcccuca.....
......................................................................ugccaugccuccugcccucag.....
......................................................................ugccaugccuccugcccCcag.....
......................................................................ugccaugccuccugcccucagA....
......................................................................ugccaugccuccugcccucagU....
......................................................................ugccaugccuccugcccucagAu...
......................................................................ugccaugccuccugcccucagUu...
```

novel-mir-candidate-416

Provisional ID	:	chr17_38492
Score total	:	1.3
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.6
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	92
Mature read count	:	92
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- uuccuucagcugguaacuucgggacuugagcuugccagugucuuuuuuaagcuguguggcauggcuuaacaggacugccuggccggcgcaucuguaaucccagcacg  -3'   exp
    ........(((((......((((...((.(((.(((((.(((((...((((((((((...)))))))))).)))))...)))))).))).))))))).....)))))...   reads     mm        sample
    ...........................................................................cUggacugccuggccggc....................   1         1         seq
    ...........................................................................caggacugccuggccggc....................   88        0         seq
    ...........................................................................Gaggacugccuggccggc....................   1         1         seq
    ...........................................................................caggacuAccuggccggc....................   1         1         seq
    ...........................................................................caggacugccuggccggcA...................   1         1         seq
    ...................................................................................cgcGucuguaaucccagc...   1         1         seq
    ...................................................................................cgcaucuguaGucccagc...   1         1         seq
    ....................................................................................aucuguaaucccagcacC   1         1         seq
```

novel-mir-candidate-210

Provisional ID	:	chr2_6733
Score total	:	5
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.7
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	18
Mature read count	:	17
Loop read count	:	0
Star read count	:	1

Mature **Star**

```
5'- ccucucacucucugccugccuccaggaggcccagccuggaaguggugcugccuuggugagccagcucacugcuuuguccuccugcagccaggugaacccuccugggca  -3'   obs
    ccucucacucucugccugccuccaggaggcccagccuggaaguggugcugccuuggugagccagcucacugcuuuguccuccugcagccaggugaacccuccugggca        exp
    ..........((.(((((.((.(((((((((..(((.....(((((.((((.(((...))).)))))))))))..).)))))))).)).)))))))..(((....))).. reads   mm   sample
    ...............cugccuccCggaggcccagcc..................................................................... 1       1    seq
    ..................cuccaggaggcccagccug..................................................................... 1       0    seq
    ...................uccaggaggcccagccug..................................................................... 16      0    seq
    ..................................................................cuuuguccuccugcUgcca..................... 1       1    seq
```

novel-mir-candidate-264

Provisional ID	:	chr19_41446
Score total	:	2.1
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.4
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	28
Mature read count	:	27
Loop read count	:	0
Star read count	:	1

Star Mature

```
5'- aagagagggccaccgagggcgggggguagagggcgggcugcggcagggucugggccuguuugcugaccucuguccugcccugcuucccagugccugagauggagccucccug  -3'   obs
    aagagagggccaccgagggcggggggguagagggcggggcugcggcagggucugggccuguuugcugaccucuguccugcccugcuucccagugccugagauggagccucccug        exp
    .((.((((.(((.(..(((((..(((.....(((((((((.(.(((((((((..(((.......)))))))).)))))).))))))))))..)))))..).))).))))))).   reads    mm    sample
    ......................................gcAgcggcagggucuggg.......................................................   1        1     seq
    ......................................................................ucuguccugcccugcuucccag....................   3        0     seq
    ......................................................................ucuguccugcccugcuucccagA...................   14       1     seq
    ......................................................................Gcuguccugcccugcuucccagu...................   1        1     seq
    ......................................................................ucuguccugcccugcuucccagu...................   7        0     seq
    ......................................................................ucuguccugcccugcuucccaguU..................   1        1     seq
    ...................................................................................Uccugcuucccagugccu...............   1        1     seq
```

novel-mir-candidate-271

Provisional ID	:	chr8_21607
Score total	:	2.1
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.4
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	40
Mature read count	:	39
Loop read count	:	0
Star read count	:	1

Mature **Star**

```
5'- cuacccagugccgucugcccaggaccagcucugcgcccaggcuggguccccccuaguggccugggaaguggugggcccugaggcugacuggggccccuuggggcucugugu  -3'   obs
    cuacccagugccgucugcccaggaccagcucugcgcccaggcuggguccccccuaguggccugggaaguggugggcccugaggcugacuggggccccuuggggcucugugu        exp
    ............(((.(((.((((.(((.(.(.((...((((((((((((....)))....)))))))).)).).))).))))).))).)))).((((((((...)))))))....   reads   mm   sample
    ...................ccaggaccagcucugcgcc.......................................................................   1       0    seq
    ...................ccaggaccagcucugcgccG......................................................................   1       1    seq
    ...................ccaggaccagcucugcgccc......................................................................   1       0    seq
    ...................ccaggaccagcucugcgccca.....................................................................   2       0    seq
    ...................ccaggaccagcucugcgcccaU....................................................................   1       1    seq
    ...................ccaggaccagcucugcgcccaA....................................................................   1       1    seq
    ...................ccaggaccagcucugcgcccag....................................................................   3       0    seq
    ...................Acaggaccagcucugcgcccag....................................................................   1       1    seq
    ...................ccaggaccagcucugcgcccagg...................................................................   3       0    seq
    ...................ccaggaccagcucugcgcccagA...................................................................   15      1    seq
    ...................ccaggaccagcucugcgcccagU...................................................................   4       1    seq
    ...................ccaggaccagcucugcgcccaggA..................................................................   1       1    seq
    ...................ccaggaccagcucugcgcccaggc..................................................................   2       0    seq
    ...................ccaggaccagcucugcgcccaggU..................................................................   1       1    seq
    ...................ccaggaccagcucugcgcccaggcA.................................................................   1       1    seq
    ...................ccaggaccagcucugcgcccaggcu.................................................................   1       0    seq
    ..............................................................aaguggugUcccugaggc...........................   1       1    seq
```

novel-mir-candidate-349

Provisional ID	:	chr19_39891
Score total	:	1.7
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	33
Mature read count	:	33
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- ccaagaccugguaaggguucugggugguggggcagguggugaacagggcaaaggggcacuggucagacccccucaccgacuguuccauccccaggaucacgaacucgccuaugg  -3'   exp
    (((......(((..((((((((((.((((((((..(((((...((((......(((....)))...)))))))))..))))).)))))))))))))))).)..)))......)))   reads   mm   sample
    ..........................................................................ccucaccgacuguuccauccccU.......................   1       1    seq
    ..........................................................................ccucaccgacuguuccauccccc.......................   1       0    seq
    ..........................................................................cucaccgacuguuccauccccca.......................   6       0    seq
    ..........................................................................cucaccgacuguuccauccccaU.......................   2       1    seq
    ..........................................................................cucaccgacuguuccauccccaA.......................   1       1    seq
    ..........................................................................cucaccgacuguuccauccccag.......................   3       0    seq
    ..........................................................................cucaccgacuguuccauccccagC......................   1       1    seq
    ..........................................................................cucaccgacuguuccauccccagA......................   4       1    seq
    ..........................................................................cucaccgacuguuccauccccagU......................   5       1    seq
    ..........................................................................cucaccgacuguuccauccccagAa.....................   2       1    seq
    ..........................................................................ucaccgacuguuccauccccag........................   1       0    seq
    ..........................................................................ucaccgacuguuccauccccagA.......................   2       1    seq
    ..........................................................................ucaccgacuguuccauccccagU.......................   1       1    seq
    ..........................................................................caccgacuguuccauccccagA........................   2       1    seq
    ..........................................................................caccgacuguuccauccccagAa.......................   1       1    seq
```

novel-mir-candidate-20

Provisional ID	:	chr11_26686
Score total	:	222.2
Score for star read(s)	:	3.9
Score for read counts	:	218.8
Score for mfe	:	2.2
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	441
Mature read count	:	439
Loop read count	:	0
Star read count	:	2

```
                                 Star                                 Mature
5'- gccgagggcagcgcuggucaccgucccgcguggcagccagugucugggggcagaguguccaggaagcugcgcccccgggcucguguccugccgccacucacugcguggcac  -3'    obs
    gccgagggcagcgcuggucaccgucccgcguggcagccagugucugggggcagaguguccaggaagcugcgcccccgggcucguguccugccgccacucacugcguggcac         exp
    (((...))).(((((.((.......)).)))))(((((.(((.(((((((((((..(((.(((...)).)))..)))))))))).).)).)))))((((.......)))))..   reads      mm         sample
    ...............................uggcagccagugucugggggc.......................................................   1          0          seq
    ...................................cagccagugucuggggAc.......................................................   2          1          seq
    ......................................................................ugcgcccccgggcucguguccc.................   1          0          seq
    ......................................................................ugcgcccccgggcucguguucA.................   1          1          seq
    ......................................................................ugcgcccccgggcucguguccu.................   1          0          seq
    ......................................................................ugcgcccccgggcucguguccug................   20         0          seq
    ......................................................................ugcgcccccgggcucguguucGug................   1          1          seq
    ......................................................................ugcgcccccgggcucguguccGg................   1          1          seq
    ......................................................................ugcgcccccgggcucguguccugU................   7          1          seq
    ......................................................................ugcgcccccgggcucguguccugc................   4          0          seq
    ......................................................................ugcgcccccgggcucguguccugA................   7          1          seq
    ......................................................................ugcgcccccgggcucguguccugcU...............   3          1          seq
    ......................................................................gcgcccccgggcucguguc....................   1          0          seq
    ......................................................................gcgcccccgggcucguguucA..................   1          1          seq
    ......................................................................gcgcccccgggcucguguccu..................   1          0          seq
    ......................................................................gcgcccccgggcucguguccug.................   25         0          seq
    ......................................................................gcgcccccgggcucguguccugA................   1          1          seq
    ......................................................................gcgcccccgggcucguguccugc................   2          0          seq
    ......................................................................gcgcccccgggcucguguccugU................   10         1          seq
    ......................................................................gcgcccccgggcucguguccugcU...............   1          1          seq
    ......................................................................cgcccccgggcucguguc.....................   1          0          seq
    ......................................................................cgcccccgggcucgugucU....................   1          1          seq
    ......................................................................cgcccccgggcucguguucA...................   1          1          seq
    ......................................................................cgcccccgggcucguguccc...................   4          0          seq
    ......................................................................cgcccccgggcucguguccu...................   11         0          seq
    ......................................................................cgcccccgggcGcguguccug..................   1          1          seq
    ......................................................................cgcccccgggcucguuAcug...................   1          1          seq
    ......................................................................cgcccccgggcucguguccug..................   65         0          seq
    ......................................................................cgcccccgggcucguguccuA..................   1          1          seq
    ......................................................................Ggcccccgggcucguguccug..................   1          1          seq
    ......................................................................cgcccccgggcucguguccGg..................   1          1          seq
    ......................................................................cgcccccgggcucguguucNug.................   1          1          seq
    ......................................................................cgcccccgggcucguguccugA.................   47         1          seq
```

```
                                 Star                                 Mature
gccgagggcagcgcuggucaccgucccgcguggcagccagugucugggggcagaguguccaggaagcugcgcccccgggcucguguccugccgccacucacugcguggcac
.......................................................................cgcccccgggcucguguccugU.................   105        1          seq
.......................................................................cgcccccgggcucguguccugc.................   32         0          seq
.......................................................................cUcccccgggcucguguccugc.................   1          1          seq
.......................................................................cgcccccgggcucguguccugcU................   8          1          seq
.......................................................................cgcccccgggcucguguccugcA................   2          1          seq
.......................................................................gcccccgggcucguguccu....................   1          0          seq
.......................................................................gcccccgggcucguguccug...................   11         0          seq
.......................................................................gcccccgggcucguguccugU..................   15         1          seq
.......................................................................gcccccgggcucguguccugc..................   6          0          seq
.......................................................................Acccccgggcucguguccugc..................   1          1          seq
.......................................................................gcccccgggcucguguccugcU.................   2          1          seq
.......................................................................gcccccgggcucguguccugccgcc..............   1          0          seq
.......................................................................ccccccgggcucguguccug...................   4          0          seq
.......................................................................ccccccgggcucguguccugA..................   2          1          seq
.......................................................................ccccccgggcucguguccugU..................   2          1          seq
.......................................................................ccccccgggcucguguccugcc.................   2          0          seq
.......................................................................ccccccgggcucguguccugcA.................   1          1          seq
.......................................................................ccccccgggcucguguccugccgU...............   1          1          seq
.......................................................................ccccccgggcucguguccugccgA...............   5          1          seq
.......................................................................cccccgggcucguguccugccU.................   1          1          seq
.......................................................................cccccgggcucguguccugccg.................   5          0          seq
.......................................................................cccccgggcucguguccugccA.................   1          1          seq
.......................................................................cccccgggcucguguccugccgA................   3          1          seq
.......................................................................cccgggcucguguccugccg...................   2          0          seq
.......................................................................ccgggcucguguccugccgcc..................   1          0          seq
```

novel-mir-candidate-398

Provisional ID	:	chr22_44456
Score total	:	1.4
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.9
Score for randfold	:	-2.2
Score for cons. seed	:	3
Total read count	:	18
Mature read count	:	18
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- cagguaguccucgcugcaggccacacccaggcuggacagggcgaggcuggcgcaagggugggccgggugcuuggaggagucaguuugggccucaggaauacuacggggucacu  -3'   exp
    ...(((((..((.(((.(((((..((...((((...((((.((..(((((.(.....).)))))..)).)))....)))).)).)..))))))))))..)))))..........   reads     mm        sample
    ...........................................................uuggaggagucaguuugggccuc...................   18        0         seq
    ......................................................................caguuugggccucaggaauacuacggggucacu   1         0         seq
```

novel-mir-candidate-170

Provisional ID	:	chr19_40562
Score total	:	18.5
Score for star read(s)	:	3.9
Score for read counts	:	10.8
Score for mfe	:	2.7
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	33
Mature read count	:	32
Loop read count	:	0
Star read count	:	1

Mature Star

```
5'- accagccacuucaguucuaauuccaggugggcugagcuguccuggggcaggacagcucagccccaccuggaacucaggagcuuccuggagacaggcaguccggcucaccug  -3'    obs
    accagccacuucaguucuaauuccaggugggcugagcuguccuggggcaggacagcucagccccaccuggaacucaggagcuuccuggagacaggcaguccggcucaccug          exp
    ...((((.............((((((((((((((((((((((((((...)))))))))))))))))))))))))))))....(((.((.((((....)))).)))))))).....   reads      mm         sample
    ....................uuccaggugggcugagcu.......................................................................   1          0          seq
    ....................uuccaggugggcugagcugu.....................................................................   1          0          seq
    ....................uuccaggugggcugagcuguc....................................................................   12         0          seq
    ....................uuccaggugggcugagcuguU....................................................................   1          1          seq
    ....................uuccagguggGcugagcuguc....................................................................   1          1          seq
    ....................uuccaggugggcugagcugucU...................................................................   4          1          seq
    .....................uccaggugggcugagcugu.....................................................................   3          0          seq
    .....................uccaggugggcugagcuguc....................................................................   6          0          seq
    .....................uccaggugggcugagcuguccu..................................................................   1          0          seq
    ......................ccaggugggcugagcugA.....................................................................   1          1          seq
    ......................ccaggugggcugagcuguccuU.................................................................   1          1          seq
    ...................................................acagcucagUcccaccug.........................................   1          1          seq
```

novel-mir-candidate-251

Provisional ID	:	chr21_43123
Score total	:	2.3
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.6
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	42
Mature read count	:	42
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- ggggcauuuccuguggaaggccggcugcuggaggugga ggcugagaccuggguccgcgug ucgggugccca cccgggccuggguacucagcuc ugccugcagcgugaugccc  -3'   exp
    ..(((.(((((...)))))))))))))))))).(((((((((.(((((((((((((((((.(((.........))).)))))))))))).))))))))))))))).)))))....))).   reads   mm   sample
    ..........................................................................cccgggccuggguacucag.......................   1       0    seq
    ..........................................................................cccgggccuggguacucagcu.....................   12      0    seq
    ..........................................................................cccgggccuggguacucagcuU....................   17      1    seq
    ..........................................................................cccgggccuggguacucagcuA....................   1       1    seq
    ..........................................................................cccgggccuggguacucagcuUu...................   7       1    seq
    ..........................................................................cccgggccuggguacucagcucuU..................   2       1    seq
    ..........................................................................ccgggccuggguacucagcuUu....................   1       1    seq
    ...............................................................................uggguacuAagcucugcc...............   1       1    seq
    ...................................................................................ucagcucugccugcagcC........   1       1    seq
```

novel-mir-candidate-198

Provisional ID	:	chr19_39731
Score total	:	5.5
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.2
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	88
Mature read count	:	85
Loop read count	:	0
Star read count	:	3

Star Mature

```
5'- aagagcuggggcucgugucagcaugucuacggggagggaauuggggugggcauggcucugggcccccagcagccacaccucgcucuucccucagaucccuacaccgccucgcug  -3'   obs
    aagagcuggggcucgugucagcaugucuacgggagggaauuggggugggcauggcucugggcccccagcagccacaccucgcucuucccucagaucccuacaccgccucgcug         exp
    ...(((.(((((..((((.((...((((..(((((((...(((((((...(((((((((....)))).))))))))))))).)))))))..))))..)))))).))))))))).   reads    mm    sample
    ................................ggagggaauuggggugggcG.......................................................   2        1     seq
    ....................................gaauuggggugggcGuggcu.....................................................   1        1     seq
    ....................................uuggggugggcauggcucugggccc.................................................   2        0     seq
    ..........................................................ccacaccucgcucuucccuca.......................   5        0     seq
    ..........................................................ccacaccucgcucuucccucU.......................   1        1     seq
    ..........................................................ccacaccucgcucuucccucag......................   8        0     seq
    ..........................................................ccacaccucgcucuucccucagC.....................   1        1     seq
    ..........................................................ccacaccucgcucuucccucaAa.....................   1        1     seq
    ..........................................................ccacaccucgcucuucccucagU.....................   16       1     seq
    ..........................................................ccacaccucgcucuuUccucaga.....................   1        1     seq
    ..........................................................ccacaccucgcucuucccucaga.....................   17       0     seq
    ..........................................................ccacaccucgcucuucccucagUu....................   3        1     seq
    ..........................................................ccacaccucgcucuucccucagaA....................   1        1     seq
    ...........................................................cacaccucgcucuucccucag......................   7        0     seq
    ...........................................................cacaccucgcucuucccucaga.....................   5        0     seq
    ...........................................................cacaccucgcucuucccucagU.....................   15       1     seq
    ...........................................................cacaccucgcucuucccucagUu....................   4        1     seq
```

novel-mir-candidate-259

Provisional ID	:	chr12_30086
Score total	:	2.2
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.5
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	22
Mature read count	:	22
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- aguccauggcugagacucagguccaggggagaggggcccuuugggcugagcuggagccgccugcccucucuuugacuggccccucuccccagccucagccccuacagccauga  -3'   exp
    ....(((((((((.((.((((..((((((((((((....((((.(.((.......))).)))).........)))))))))))))).))))..))...)).)))))))).
    ...................................gcccuuugggcugagcuggagc.....................................................
    .....................................cuCugggcugagcuggagcc.....................................................
    ......................................................................uugacuggccccucuccccag.....................
    ......................................................................uugacuggccccucuccccagA....................
    ......................................................................uugacuggccccucuccccagU....................
    .......................................................................ugacuggccccucuccccagA....................
    .......................................................................ugacuggccccucuccccagU....................
```

reads	mm	sample
1	0	seq
1	1	seq
2	0	seq
11	1	seq
4	1	seq
4	1	seq
1	1	seq

novel-mir-candidate-130

Provisional ID	:	chr20_42784
Score total	:	33.5
Score for star read(s)	:	3.9
Score for read counts	:	26.1
Score for mfe	:	2.5
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	63
Mature read count	:	59
Loop read count	:	0
Star read count	:	4

Star Mature

```
5'- gaggggcugggccucgccgcggaccccgacgcgcgccccgugacucccucgggugcccaaaaaucugucccgggagucuuggggcgccugcucaucccugaacagggau  -3'   obs
    gaggggcugggccucgccgcggaccccgacgcgcgccccgugacucccucgggugcccaaaaaucugucccgggagucuuggggcgccugcucaucccugaacagggau        exp
    ..((((((((((...)))).)))).)))))((.((((((((((.(((((((..(((.((.........)).)))))))))).)))))))..))))((((((....))))))   reads   mm   sample
    ............cucgccgcggaccccgacg.............................................................................   1       0    seq
    ...............................cgcgcgccccgugacucccucgg.......................................................   1       0    seq
    ...............................cgcgcgccccgugacucccucgggU.....................................................   1       1    seq
    ...............................gcgcgccccgugacucccucggA.......................................................   1       1    seq
    ...............................cgcgcgccccgugacucccucg........................................................   2       0    seq
    ...............................cgcgcgccccgugacucccucgg.......................................................   1       0    seq
    ..........................................cucccucgggugcccaaaaaucug.............................................   1       0    seq
    ...........................................cucgggugcccaaaaaucug...............................................   1       0    seq
    ...................................................ggugcccaaaaaucugucccccgggag.................................   1       0    seq
    ....................................................................cccgggagucuuggggcgccug...................   2       0    seq
    ...................................................................cccgggagucuuggggcgccugA..................   1       1    seq
    ....................................................................ccgggagucuuggggcgcc......................   4       0    seq
    ....................................................................ccgggagucuuggggcgccu.....................   29      0    seq
    ....................................................................ccgggagucuuggggcgccG.....................   2       1    seq
    ....................................................................ccgggagucuuggggcgcAug....................   1       1    seq
    ....................................................................ccUggagucuuggggcgccug....................   1       1    seq
    ....................................................................ccgggagucuuggggcgccug....................   9       0    seq
    ....................................................................ccgggagucuuggggcgccugA...................   2       1    seq
    ....................................................................ccgggagucuuggggcgccugcu..................   5       0    seq
    ....................................................................ccgggagucuuggggcgccugcAc.................   1       1    seq
    ....................................................................cgggagucuuggggcgccu......................   1       0    seq
    ....................................................................cgggagucuuggggcgccugcu...................   1       0    seq
    ...........................................................................................ugcucaucccugaacagg....   1       0    seq
```

novel-mir-candidate-435

Provisional ID	:	chr19_40974
Score total	:	1.1
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.4
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	75
Mature read count	:	75
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- gagcagauggugggaggggaugaggauuaggggucagugggagggcgguuucagcaugacuagaauucugaacccugcaucgucccccagccugaagggagaccaggagu  -3'   exp
    ..((...((((((((.((((((((....(((((.((((..((..(.((.......)).)..)).....)))).)))))..)))))))...))))........))))...))   reads   mm   sample
    ..........................................................cuagaauucugaacccugcaucgucccccc.......................   1       0    seq
    ..........................................................ucugaacccugcaucgucccc.......................   2       0    seq
    ..........................................................ucugaacccugcaucgucccccaA....................   1       1    seq
    ..........................................................ucugaacccugcaucgucccccag....................   2       0    seq
    ..........................................................cugaacccugcaucgucccc.......................   1       0    seq
    ..........................................................cugaacccugcaucgucccccca....................   3       0    seq
    ..........................................................cugaacccugcaucgucccccag....................   8       0    seq
    ..........................................................cugaacccugcaucgucccccagA...................   4       1    seq
    ..........................................................cugaacccugcaucgucccccagU...................   49      1    seq
    ..........................................................ugaacccugcaucgucccc.......................   1       0    seq
    ..........................................................ugaacccugcaucgucccccagA...................   1       1    seq
    ..........................................................ugaacccugcaucgucccccagU...................   3       1    seq
```

novel-mir-candidate-250

Provisional ID	:	chrX_45980
Score total	:	2.2
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.5
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	46
Mature read count	:	45
Loop read count	:	0
Star read count	:	1

Star Mature

```
5'- gccggaaaugcguguccacgaaggccggccuaggcuuggguggggcggggccacgagcggggcuccaacccucucauggacuccgcccacaaagccgggugguccccuagua  -3'   obs
    gccggaaaugcguguccacgaaggccggccuaggcuuggguggggcggggccacgagcggggcuccaacccucucauggacuccgcccacaaagccgggugguccccuagua        exp
    (((((.....(((....)))....)))))...(((((..((((((((((((.(((.(((.......))).))).))).))))))))))..))))))(((....)))......
```

reads	mm	sample
1	1	seq
1	0	seq
1	1	seq
2	1	seq
2	1	seq
1	0	seq
12	0	seq
2	1	seq
2	1	seq
3	0	seq
3	1	seq
1	1	seq
1	0	seq
2	1	seq
2	1	seq
1	1	seq
2	1	seq
3	0	seq
3	0	seq
1	1	seq
2	1	seq

```
.....gcggggcGacgagcgggg.....
.....aacccucucauggacuccgcccac.....
.....aacccucucauggacuccgcccacC.....
.....cucucauggacuccgcccacC.....
.....cucucauggacuccgcccacU.....
.....cucucauggacuccgcccacaa.....
.....ucucauggacuccgcccaca.....
.....ucucauggacuccgcccacU.....
.....ucucauggacuccgcccacC.....
.....ucucauggacuccgcccacaaa.....
.....ucucauggacuccgcccacaaU.....
.....ucucauggacuccgcccacaaaU.....
.....ucucauggacuccgcccacaaag.....
.....ucucauggacuccgcccacaaagA.....
.....ucucauggacuccgcccacaaagU.....
.....cucauggacuccgcccacaaG.....
.....cucauggacuccgcccacaaU.....
.....cucauggacuccgcccacaaag.....
.....cucauggacuccgcccacaaagc.....
.....cucauggacuccgcccacaaagA.....
.....cucauggacuccgcccacaaagU.....
```

novel-mir-candidate-4

Provisional ID	:	chr12_29922
Score total	:	1559.6
Score for star read(s)	:	3.9
Score for read counts	:	1554.6
Score for mfe	:	0.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	3061
Mature read count	:	3060
Loop read count	:	0
Star read count	:	1

Star **Mature**

```
5'- cccuuacaucuugauuucccuuaaacgagugaagucauccuaacuuuuccccuacucuugccauagagaggaggagaagaaacuaaccaacaugcagcacaagaaggg  -3'   obs
    cccuuacaucuugauuucccuuaaacgagugaagucauccuaacuuuuccccuacucuugccauagagaggaggagaagaaacuaaccaacaugcagcacaagaaggg        exp
    (((((......(((((((.(((....)))).)))))))......((((((((((.((((......)))))))).)))))))..........................)))))   reads   mm   sample
    ........................................aacuuuuccccuacucuugcc........................................   1       0    seq
    ......................................................agUggaggagaagaaacu........................   1       1    seq
    ......................................................agCggaggagaagaaacu........................   1692    1    seq
    ......................................................agaggaggagaagaaacu........................   3       0    seq
    ......................................................agCggaggagaagaaacua.......................   10      1    seq
    ......................................................agCggaggagaagaaacuaa......................   19      1    seq
    ......................................................agCggaggagaagaaacuaac.....................   105     1    seq
    ......................................................agCggaggagaagaaacuaacc....................   608     1    seq
    ......................................................agaggaggagaagaaacuaacc....................   1       0    seq
    ......................................................agCggaggagaagaaacuaacca...................   4       1    seq
    .......................................................gCggaggagaagaaacua.......................   17      1    seq
    .......................................................gCggaggagaagaaacuaa......................   8       1    seq
    .......................................................gCggaggagaagaaacuaac.....................   53      1    seq
    .......................................................gCggaggagaagaaacuaacc....................   105     1    seq
    .......................................................gCggaggagaagaaacuaacca...................   8       1    seq
    ........................................................Cggaggagaagaaacuaa......................   8       1    seq
    ........................................................Cggaggagaagaaacuaac.....................   74      1    seq
    ........................................................Cggaggagaagaaacuaacc....................   143     1    seq
    ........................................................Cggaggagaagaaacuaacca...................   8       1    seq
    .........................................................ggaggagaagaaacuaac.....................   23      0    seq
    .........................................................ggaggagaagaaacuaacc....................   62      0    seq
    .........................................................gUaggagaagaaacuaacc....................   2       1    seq
    .........................................................ggaggagaagaaGcuaacc....................   1       1    seq
    .........................................................ggaggagaGgaaacuaacc....................   1       1    seq
    .........................................................ggaggagaagaaacuaGcc....................   1       1    seq
    .........................................................ggaggaAaagaaacuaacc....................   58      1    seq
    .........................................................ggaggaAaagaaacuaacca...................   1       1    seq
    .........................................................ggaggagaagaaacuaacca...................   2       0    seq
    ..........................................................gaggagaagaaacuaacc....................   40      0    seq
    ..........................................................Uaggagaagaaacuaacc....................   1       1    seq
    ..........................................................gaggagaagaaacuaacca...................   1       0    seq
    ..........................................................gaggagaagaaacuaaccaG..................   1       1    seq
```

novel-mir-candidate-29

Provisional ID	:	chr6_17909
Score total	:	145
Score for star read(s)	:	3.9
Score for read counts	:	141.9
Score for mfe	:	2.1
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	290
Mature read count	:	289
Loop read count	:	0
Star read count	:	1

Mature **Star**

```
5'- gaagugaccucugggaaggagugcgaugaggggaguccugagcacgccccggggugaccucugggaaggagugggUUGGGGGGAGCCCUGGGCACgcucuggggugacuccugg  -3'   obs
    gaagugaccucugggaaggagugcgaugaggggaguccugagcacgccccggggugaccucugggaaggagugggUUGGGGGGAGCCCUGGGCACGCUCuggggugacuccugg        exp
    ..(((.(((((......((((((.(.(.((((...((((.(((.((((((((((....)))))))).....)))).)))).))))...)))).).).).))))))))))).))).....   reads   mm   sample
    ...................agugcgaugaggggaguccugagcac.....................................................................   1       0    seq
    ...................agugcgaugaggggaguccugagcCc.....................................................................   1       1    seq
    ...................agugcgaugaggggaguccugagcacg....................................................................   3       0    seq
    ...................agugcgaugaggggaguccugagcacgccccggggugaccucug...................................................   1       0    seq
    ...................agugcgaugaggggaguccugagcacgccccggggugaccucug...................................................   2       0    seq
    ...................gugcgaugaggggaguccNgagc........................................................................   2       1    seq
    ...................gugcgaugaggggaguccuAagc........................................................................   1       1    seq
    ...................gugcgaugaggggaguccAgagc........................................................................   2       1    seq
    ...................gugcgaugagggUaguccugagc........................................................................   1       1    seq
    ...................gugcgaugaggggaguccugagc........................................................................   101     0    seq
    ...................gugcgaugGggggaguccugagca.......................................................................   1       1    seq
    ...................gugcgaugaggggagCccugagca.......................................................................   1       1    seq
    ...................gugcgaugaggggaguccNgagca.......................................................................   1       1    seq
    ...................gugAgaugaggggaguccugagca.......................................................................   1       1    seq
    ...................gugcAaugaggggaguccugagca.......................................................................   1       1    seq
    ...................gugcgaugaggggaguccugagcC.......................................................................   10      1    seq
    ...................Uugcgaugaggggaguccugagca.......................................................................   1       1    seq
    ...................gugcgaugaggggaguccugagca.......................................................................   150     0    seq
    ...................gugcgaugagguUaguccugagca.......................................................................   1       1    seq
    ...................gugcgaugaggggaguccAgagca.......................................................................   2       1    seq
    ...................gugcgaugaggggaguccugagcaA......................................................................   2       1    seq
    ...................gugcgaugaggggaguccugagcac......................................................................   2       0    seq
    ...................gugcgaugaggggaguccugagcCcg.....................................................................   1       1    seq
    ...................ugcgaugaggggaguccugagc.........................................................................   2       0    seq
    ...................gcgaugaggggaguccugagca.........................................................................   1       0    seq
    ......................................................................uuggggggagcccugggcCc.......................   1       1    seq
```

novel-mir-candidate-39

Provisional ID	:	chr19_39651
Score total	:	118.2
Score for star read(s)	:	3.9
Score for read counts	:	111.8
Score for mfe	:	1.7
Score for randfold	:	-2.2
Score for cons. seed	:	3
Total read count	:	231
Mature read count	:	230
Loop read count	:	0
Star read count	:	1

```
                                                
```

novel-mir-candidate-337

Provisional ID	:	chr19_41074
Score total	:	1.8
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	119
Mature read count	:	119
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- gagcuuaugguaggagcugcggggugaauggggagugagugaugggaugaaggugggcccucgugccccacucacugcagccucucuuuuccagcgacugcccaguggcaaagu  -3'   exp
    ..(((...(((((..((((.((((.((..(((.(((((((((..(((((((.((....)))))).)))))))))))).)..))..)).)).))))))))..)))))....)))).....
    .........guaggagcugcggggugaa.......................................................................................
    .........guaggagcugcggggugaauggggagu...............................................................................
    ...................................................uggcccucgugccccacucacugcagccucucuuuuccagA..................
    ......................................................cAccacucacugcagccucu..........................................
    ...................................................ccccacucacugcagccucucuuuuccag..................................
    ......................................................cacucacugcagccucuG...........................................
    ......................................................acucacugcagccucCcu...........................................
    ......................................................acucacugcagccucucuuuuccag.....................................
    ......................................................acucacugcagccucucuuuuccagA....................................
    ......................................................cucacugcagccucucuuuuccCg......................................
    ......................................................cucacugcagccucucuuNuccag......................................
    ......................................................cucacugcagccucucuuuuccag......................................
    ......................................................cucacugcagccucucuuuuccagc.....................................
    ......................................................cucacugcagccucucuuuuccagA....................................
    ......................................................cucacugcagccucucuuuuccagcA...................................
    ......................................................ucacugcagccucucuuuNccag.......................................
    ......................................................ucacugcagccucucuuuuccag......................................
    ......................................................ucacugcagccucucuuuAccag.......................................
    ......................................................ucacugcagccucucuuuuccagc.....................................
    ......................................................ucacugcagccucucuuuuccagA....................................
    ......................................................cacugcagccucucuuuuccag.......................................
```

reads	mm	sample
1	0	seq
1	0	seq
1	1	seq
1	1	seq
1	0	seq
1	1	seq
1	1	seq
2	0	seq
1	1	seq
1	1	seq
1	1	seq
35	0	seq
1	0	seq
25	1	seq
1	1	seq
1	1	seq
32	0	seq
1	1	seq
1	0	seq
14	1	seq
1	0	seq

novel-mir-candidate-248

Provisional ID	:	chr11_26250
Score total	:	2.2
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.5
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	145
Mature read count	:	145
Loop read count	:	0
Star read count	:	0

Mature Star

```
5'- guccaggucgucuggcuggguauccgcuggcuuacucucucucggguuguccucuccgcuggggagggagugaggcgcgggugccggccgggaccccugacaacagcuacu  -3'    exp
    (((.(((...(((((((((.(((((((.(.(((((((((((((((((.(......).))).))))))))))))).))))))))))))))))))...)))))).........
    ....................uauccgcuggcuuacucu.....................................................................
    ....................uauccgcuggcuuacucuc....................................................................
    ....................uauccgcuggcuuacucuU....................................................................
    ....................uauccgcuggcuuacucucu...................................................................
    ....................uauccgcuggcuCacucucu...................................................................
    ....................uauccgcuggcuuacucucuc..................................................................
    ....................uauccgcuggcuuacucuNucu.................................................................
    ....................uauccgcuggcuuacucucuUu.................................................................
    ....................uauccgcuggcuuacucucucu.................................................................
    ....................uauccgcuggcuuacucucucuc................................................................
    ....................uauccgcuggcuuacucucucuA................................................................
    ....................uauccgcuggcuuacucucucuU................................................................
    ....................uauccgcuggcuuacucucucucg...............................................................
    ....................uauccgcuggcuuacucucucucA...............................................................
    ....................uauccgcuggcuuacucucucucU...............................................................
    ..........................................................gggagggagugGggcgcgg.............................
    ...............................................................................gugccggccCggaccccu............
```

reads	mm	sample
3	0	seq
1	0	seq
2	1	seq
56	0	seq
1	1	seq
9	0	seq
1	1	seq
1	1	seq
53	0	seq
8	0	seq
2	1	seq
2	1	seq
2	0	seq
1	1	seq
3	1	seq
1	1	seq
1	1	seq

novel-mir-candidate-280

Provisional ID	:	chr19_39557
Score total	:	2
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.3
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	52
Mature read count	:	52
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- ggcuagacccuaggagggacuucccaacccugacaggcggcgggcaggugggcagggccucgcaguccagcuucccccaccuugucugccucccacaggggacuccggcagccc  -3'   exp
    ((((.(.((...((((.....((((...((((...((.(((((((((((((((.((((......)))).))....)))))).))))))))).)).)))))))))))))))).   reads    mm       sample
    ......acccuaggagggacuucccaaccc.......................................................................................   1        0        seq
    ...........................................................cuuccccaccuugucugcc.......................................   1        0        seq
    ...........................................................cuuccccaccuugucugcAu......................................   1        1        seq
    ...........................................................cuuccccaccuugucugccu......................................   3        0        seq
    ...........................................................cuuccccaccuugucugccucc....................................   7        0        seq
    ...........................................................cuuccccaccuugucugccucU....................................   1        1        seq
    ...........................................................cuuccccaccuugucugccucA....................................   2        1        seq
    ...........................................................cuuccccaccuugucugccucca...................................   1        0        seq
    ...........................................................cuuccccaccuugucugccuccU...................................   1        1        seq
    ...........................................................cuuccccaccuugucugccucccA..................................   1        1        seq
    ...........................................................cuuccccaccuugucugccucccaU.................................   4        1        seq
    ...........................................................uuccccaccuugucugccuccU....................................   1        1        seq
    ...........................................................uuccccaccuugucugccucccA...................................   1        1        seq
    ...........................................................uuccccaccuugucugccucccaA..................................   2        1        seq
    ...........................................................uuccccaccuugucugccucccacU.................................   3        1        seq
    ...........................................................uccccaccuugucugccu........................................   1        0        seq
    ...........................................................uccccaccuugucugccucc......................................   1        0        seq
    ...........................................................uccccaccuugucugccucca.....................................   3        0        seq
    ...........................................................uccccaccuugucugccuccac....................................   2        0        seq
    ...........................................................uccccaccuugucugccucccaU...................................   1        1        seq
    ...........................................................uccccaccuugucugccucccaca..................................   4        0        seq
    ...........................................................uccccaccuugucugccucccacU..................................   9        1        seq
    ...........................................................uccccaccuugucugccucccacaU.................................   2        1        seq
    ..............................................................................................gggggacuccgAcagccc   1        1        seq
```

novel-mir-candidate-196

Provisional ID	:	chr17_37155
Score total	:	5.5
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.2
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	396
Mature read count	:	396
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- ggcaacauugccccaauuccucccaaugccuuugcucucaguagauccccugccccugugccccagggaggagagggacggccgggggugaagggcagagggagagac  -3'   exp
    ((((....)))).....(((((((..(((((((((((.((.(.((((((.((((((.....)))))).....)).)))))).)).)))))))..)))))))..)))))).).   reads    mm    sample
    ...........................................................................Aagagggacggccggggg.....................   43       1     seq
    ...........................................................................gagagggacggccggggGC...................   14       1     seq
    ...........................................................................Aagagggacggccgggggu....................   2        1     seq
    ...........................................................................agagggacggccgggggC....................   337      1     seq
```

novel-mir-candidate-176

Provisional ID	:	chr19_40336
Score total	:	16.1
Score for star read(s)	:	3.9
Score for read counts	:	12.9
Score for mfe	:	2.1
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	37
Mature read count	:	30
Loop read count	:	0
Star read count	:	7

Mature Star

```
5'- agugucaugcagcagggggcgcaggccucacuuggcaccagugcuguguggccucccuggucuaaggagaggcuugggcccaacugcucccacgagaacccaccagaacccug  -3'   obs
    agugucaugcagcagggggcgcaggccucacuuggcaccagugcuguguggccucccuggucuaaggagaggcuugggcccaacugcucccacgagaacccaccagaacccug        exp
    ..(.((.(((((((.((((.(((((((((.(((((.(((((.(((....)))....)))))))))..)))))))).))))..)))))..))).)).)).....(((....)))   reads   mm   sample
    ....................cgcaggccucacuuggcaccagu.......................................................................   1       0    seq
    ....................gcaggccucacuuggcaccag.........................................................................   1       0    seq
    ....................gcaggccucacuuggcaccagu........................................................................   5       0    seq
    ....................gcaggccucacuuggcaccagug.......................................................................   9       0    seq
    ....................gcaggccucacuuggcaccagugU......................................................................   11      1    seq
    ....................gcaggccucacuuggcaccagugA......................................................................   1       1    seq
    ....................gcaggccucacuuggcaccagugc......................................................................   1       0    seq
    ....................gcaggccucacuuggcaccagugUu.....................................................................   1       1    seq
    ..........................................................ccuggucuaaggagaggcuugggc...............................   2       0    seq
    ..........................................................cuggucuaaggagaggcu.....................................   1       0    seq
    ..........................................................cuggucuaaggagaggcuugggc................................   4       0    seq
```

novel-mir-candidate-11

Provisional ID	:	chr6_17250
Score total	:	516.6
Score for star read(s)	:	3.9
Score for read counts	:	509.4
Score for mfe	:	2.2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	1011
Mature read count	:	789
Loop read count	:	0
Star read count	:	222

```
                                   Star                                   Mature
5'- ugaccccagccccaggaccacgagcaacucgccuggcucccuucucucccgucugccuccuggccgcgggcccggagagcugggagccagagggguguaaaugaagggcaga  -3'    obs
    ugaccccagccccaggaccacgagcaacucgccuggcucccuucucucccgucugccucuccuggccgcgggcccggagagcugggagccagagggguguaaaugaagggcaga         exp
    ........((((((..(((.((((...)))).(((((((((..(((((((...(((((.........)))))..)))))))..)))))))))..)))).....)).)))))...  reads     mm        sample
    ...........ccaggaccacgagcaacucA...............................................................................  1         1         seq
    ...............................gccuggcucccuucucucccgA.........................................................  1         1         seq
    ...............................ccuggcucccuucucucccgA..........................................................  1         1         seq
    ...............................ccuggcucccuucucucccgu..........................................................  7         0         seq
    ...............................ccuggcucccuucucucccguc.........................................................  4         0         seq
    ...............................ccuggcucccuucucucccguU.........................................................  1         1         seq
    ...............................ccuggcucccuucucucccgucu........................................................  16        0         seq
    ...............................ccuggcucccuucucucccgucug.......................................................  9         0         seq
    ...............................ccuggcucccuucucucccgucugU......................................................  1         1         seq
    ...............................ccuggcucccuucucucccgucugA......................................................  3         1         seq
    ...............................ccuggcucccuucucucccNucugc......................................................  1         1         seq
    ...............................ccuggcucccuucucucccgucugc......................................................  3         0         seq
    ...............................ccuggcucccuucucucccCucugc......................................................  1         1         seq
    ...............................ccuggcucccuucucucccgucugcc.....................................................  4         0         seq
    ...............................ccuggcucccuucucucccgucugccu....................................................  4         0         seq
    ...............................ccuggcucccuucucucccgucugccuccu.................................................  1         0         seq
    ...............................cuggcucccuucucucccgucu........................................................  2         0         seq
    ...............................uggcucccuucucucccguc..........................................................  8         0         seq
    ...............................uggcuccUuucucucccguc..........................................................  1         1         seq
    ...............................uggcucccuucucucccgucu........................................................  15        0         seq
    ...............................uggcucccuucucucccgucGg.......................................................  1         1         seq
    ...............................uggcucccuucucucccgucuA.......................................................  1         1         seq
    ...............................uggcucccuucucucccgucug.......................................................  26        0         seq
    ...............................Ggcucccuucucucccgucugc.......................................................  1         1         seq
    ...............................uggcucccuucucucccgucugU......................................................  14        1         seq
    ...............................uggcucccuucucucccgucugc......................................................  8         0         seq
    ...............................uggcucccuucucucccgucugA......................................................  36        1         seq
    ...............................uggcucccuucucucccgucugcU.....................................................  1         1         seq
    ...............................uggcucccuucucucccgucugcc.....................................................  13        0         seq
    ...............................uggcucccuucucucccguNugccu....................................................  2         1         seq
    ...............................uggcCcccuucucucccgucugccu....................................................  1         1         seq
    ...............................uggcucccuucucucccgucugccu....................................................  32        0         seq
    ...............................uggcucccuucucucccgucugccuU...................................................  1         1         seq
```

```
                                   Star                                   Mature
ugaccccagccccaggaccacgagcaacucgccuggcucccuucucucccgucugccuccuggccgcgggcccggagagcugggagccagagggguguaaaugaagggcaga
...............................uggcucccuucucucccgucugccucU.....................................  1         1         seq
...............................gcucccuucucucccgucugccuc.......................................  1         0         seq
.................................cuucucucccgucugccucc.........................................  1         0         seq
.................................................cuccuggccgcggggcccggagagcugggagcc............  1         0         seq
...............................................cgcggggcccggagagcugggagccagaggU.................  1         1         seq
...............................cgcccggagagcugggagc...........................................  3         0         seq
...............................cgcccggagagcugggagcU..........................................  1         1         seq
...............................cgcccggagagcugggagcc.........................................  2         0         seq
...............................gGccggagagcugggagcca.........................................  1         1         seq
...............................cgcccggagagcugggagcca........................................  15        0         seq
...............................cgcccggagagcugggagccag.......................................  11        0         seq
...............................cgcccggagagcugggagccaA......................................  1         1         seq
...............................cgcccggagagcugggagccaU......................................  1         1         seq
...............................gGccggagagcugggagccaga......................................  1         1         seq
...............................cgcccggagagcuUggagccaga.....................................  6         1         seq
...............................cgcccggagagcugggagccagU.....................................  13        1         seq
...............................cgcccggagagcugggagcNaga.....................................  1         1         seq
...............................cgcccggagagcugggagccaAa.....................................  3         1         seq
...............................cgcccggagagcugggagccGga.....................................  1         1         seq
...............................Acccggagagcugggagccaga......................................  1         1         seq
...............................cgcccggaAagcugggagccaga.....................................  1         1         seq
...............................cgcccggagagcugggagccaga.....................................  259       0         seq
...............................cgcccggagagcugggagcGaga.....................................  1         1         seq
...............................cgcccggagagcugggagcAaga.....................................  1         1         seq
...............................cgcccggagagcugggagccagag....................................  17        0         seq
...............................cgcccggagagcugggagccagaC....................................  3         1         seq
...............................cgcccggagagcugggagccagaU....................................  13        1         seq
...............................cgcccggagagcugggagccagaA....................................  53        1         seq
...............................cgcccggagagcugggagccagagC...................................  2         1         seq
...............................cgcccggagagcugggagccagaAg...................................  1         1         seq
...............................cgcccggagagcugggagccagagA...................................  19        1         seq
...............................cgcccggagagcugggagccagagg...................................  2         0         seq
...............................cgcccggagagcugggagccagagU...................................  20        1         seq
...............................cccggagagcugggagcca.........................................  1         0         seq
...............................cccggagagcugggagccag........................................  3         0         seq
...............................Accggagagcugggagccaga......................................  1         1         seq
...............................cccggagagcugggagccaga......................................  90        0         seq
...............................cccggagagcugggaAccaga......................................  1         1         seq
...............................cccggagagcugggagccagG......................................  1         1         seq
...............................cccggagagcugggagccagU......................................  5         1         seq
...............................cccggagagcugggagccagag.....................................  17        0         seq
...............................cccggagagcugCgagccagag.....................................  1         1         seq
...............................cccggagagcugggagccagaU.....................................  2         1         seq
...............................cccggagagcugggagccagaA.....................................  11        1         seq
...............................cccggagagcugggagccagagA....................................  150       1         seq
...............................cccggagagcugggagccagagU....................................  15        1         seq
...............................cccggagagcugggagccagagg....................................  15        0         seq
...............................cccggagagcugggagccagagC....................................  2         1         seq
...............................cccggagagcugggagccCgagg....................................  1         1         seq
...............................cccggagagcugggagccagaggC...................................  1         1         seq
...............................cccggagagcugggagccagaggA...................................  8         1         seq
...............................cccggagagcugggagccagaggU...................................  4         1         seq
...............................cccggagagcugggagccagaggAu..................................  3         1         seq
...............................cccggagagcugggagccagaggUu..................................  1         1         seq
...............................ccggagagcugggagccagag......................................  1         0         seq
...............................cggagagcugggagccagU........................................  1         1         seq
.................................Acugggagccagagggug.......................................  1         1         seq
```

novel-mir-candidate-34

Provisional ID	:	chr16_35820
Score total	:	138.4
Score for star read(s)	:	3.9
Score for read counts	:	135.2
Score for mfe	:	2.1
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	277
Mature read count	:	261
Loop read count	:	13
Star read count	:	3

Star / Mature

```
5'- uccaagugagcagcggggagggacggggagcuggaggggagccgagaguaucgagcaggcacugaagcugcggucccucccucuccucaggacgggguca uucugggcgcc  -3'   obs
    uccaagugagcagcggggagggacggggagcuggaggggagccgagaguaucgagcaggcacugaagcugcggucccucccucuccucaggacgggguca uucugggcgcc        exp
    (((...((((.((.(((((((((..(.((((..(((...(((((.....))).))...)).)).)))).).))))))))))))).))))))).((.(((.......))).))   reads   mm   sample
    .....gugagcagcggggagggacgggga.......................................................................   1       0    seq
    .....gugagcagcggggagggacggggagc.....................................................................   2       0    seq
    .....gugagcagcggggagggacggggagcuggaggggagccg........................................................   1       0    seq
    .....gugagcagcggggagggacggggagcuggaggggagccgagU.....................................................   1       1    seq
    .....gugagcagcggggagggacggggagcuggaggggagccgaga.....................................................   1       0    seq
    ......ugagcagcggggagggacggGcgagcuggaggggagccg.......................................................   1       1    seq
    ......................acggggagcuggaggggagccgagagu....................................................   1       0    seq
    ..............................cuggaggggagccgagaguaA.................................................   1       1    seq
    ..............................cuggaggggagccgagagAau.................................................   1       1    seq
    ..............................cuggaggggagccgagaguaucgagA............................................   1       1    seq
    ..............................uggaggggagccgagagua...................................................   1       0    seq
    ..............................uggaggggagccgagaguaucg................................................   2       0    seq
    ..............................uggaggggagccgagaguaucga...............................................   2       0    seq
    ..............................uggaggggagccgagaguaucgag..............................................   2       0    seq
    ..............................uggaggggagccgagaguaucgagc.............................................   1       0    seq
    ...............................ggaggggagccgagaguaucga...............................................   1       0    seq
    ...............................ggaggggagccgagaguaucgagc.............................................   1       0    seq
    ..................................................uaucgagcaggcacugaagcugcggucccucccucuccucagA.........   1       1    seq
    ..................................................uaucgagcaggcacugaagcugcggucccucccucuccucagU.........   1       1    seq
    .................................................aucgagcaggcacugaagcugcggucccucccucuccucag............   1       0    seq
    .................................................aucgagcaggcacugaagcugcggucccucccucuccucagU...........   1       1    seq
    ................................................gcaggcacugaagcugcggucccucccucuccucag.................   1       0    seq
    ...............................................cugcggucccucccucuccuc.................................   1       0    seq
    ...............................................cugcggucccucccucuccucagU..............................   1       1    seq
    ................................................ugcggucccucccucuccu...................................   10      0    seq
    ................................................ugcggucccucccucuccuc..................................   2       0    seq
    ................................................ugcggucccucccucuccuca.................................   7       0    seq
    ................................................ugcggucccucccucuccucag................................   11      0    seq
    ................................................ugcggucccucccucuccucaU................................   1       1    seq
    ................................................ugcggucccucccucuccucagg...............................   1       0    seq
    ................................................ugcggucccucccucuccucagU...............................   71      1    seq
    ................................................ugcggucccucccucuccucagC...............................   1       1    seq
    ................................................ugcggucccucccucuccucagA...............................   87      1    seq
```

Star / Mature

```
uccaagugagcagcggggagggacggggagcuggaggggagccgagaguaucgagcaggcacugaagcugcggucccucccucuccucaggacgggguca uucugggcgcc
.......................................................ugcggucccucccucuccucagAa.....................   3       1    seq
.......................................................ugcggucccucccucuccucagUa.....................   3       1    seq
.......................................................gcggucccucccucuccu...........................   2       0    seq
.......................................................gcggucccucccucuccucag........................   1       0    seq
.......................................................gcggucccucccucuccucagA.......................   24      1    seq
.......................................................gcggucccucccucuccucagU.......................   25      1    seq
.......................................................gcggucccucccucuccucagUa......................   3       1    seq
.......................................................gcggucccucccucuccucagAa......................   4       1    seq
.......................................................cggucccucccucuccucagU........................   1       1    seq
.......................................................cggucccucccucuccucagA........................   1       1    seq
.......................................................cggucccucccucuccucagAa.......................   1       1    seq
.............................................................acgggguca uucugggcgc.                   1       0    seq
.............................................................acgggguca uucugggcgcc                   1       0    seq
.............................................................ggggguca uucugggcgcc                   1       0    seq
```

novel-mir-candidate-312

Provisional ID	:	chr17_36064
Score total	:	1.9
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	2149
Mature read count	:	2147
Loop read count	:	1
Star read count	:	1

Mature Star

```
5'- acacuggcuaaagcggggcgcagcgagggggggcccgggggcugacccccagcgacccgcgcgggccauuucgcaaacgcccaauuagcccggcuuucacccaaaccccgg  -3'   obs
    acacuggcuaaagcggggcgcagcgagggggggcccgggggcugacccccagcgacccgcgggccauuucgcaaacgcccaauuagcccggcuuucacccaaaccccgg        exp
    .....((((((....(((((..((((((..((((((((((((.....))))..))))).)))))).)))))).....))))).))))))(((..((.......)).)))).   reads    mm       sample
    acacuggcuaaagcggggc.......................................................................................   1        0        seq
    ..acuggcuaaagcggggcgc.....................................................................................   1        0        seq
    ......gcuaaagcggggcgcagcgaggg.............................................................................   1        0        seq
    ..................cgcCgcgagggggggcccg.....................................................................   1        1        seq
    ..................cgcCgcgagggggggcccggg...................................................................   2        1        seq
    ..................Ccagcgagggggggcccggg....................................................................   2        1        seq
    ..................gcCgcgagggggggcccggg....................................................................   3        1        seq
    ..................gcagcgagggggggcccggggg..................................................................   1        0        seq
    ...................cGgcgagggggggcccggg....................................................................   2        1        seq
    ...................cCgcgagggggggcccggg....................................................................   2063     1        seq
    ...................cNgcgagggggggcccggg....................................................................   1        1        seq
    ...................cagcgagggggggcccggg....................................................................   2        0        seq
    ...................cagcgagggggggcccgggC...................................................................   38       1        seq
    ...................cCgcgagggggggcccgggg...................................................................   3        1        seq
    ....................agcgagggggggcccgggC...................................................................   21       1        seq
    .....................gcgagggggggcccgAggg...................................................................   1        1        seq
    .....................gcgagggggggcccggggC...................................................................   1        1        seq
    .....................gcgagggggggcccgggCg...................................................................   4        1        seq
    .....................gcgagggggggcccgggggcugaccccca.........................................................   1        0        seq
    .....................cgagggggggcGcgggggc...................................................................   1        1        seq
    .....................cgagggggggcccggggAc...................................................................   1        1        seq
    ..............................gcccgggggcugacccccagcgacccgcgggc.............................................   1        0        seq
    ...............................cccgggggcugacccccagcgacccgcgggc.............................................   2        0        seq
    ................................ccgggggcugacccccagcgacccgcgggc.............................................   3        0        seq
    ................................Gggggcugacccccagcgacccgcgggc...............................................   1        1        seq
    ..........................................acccccagcgacccgcgg...............................................   1        0        seq
    ...................................................agcgacccgcgggccauuucg...................................   1        0        seq
    ...................................................cgacccgcgggccauuucgcaaacgc..............................   1        0        seq
    ......................................................cgcgggccauuucgcaaacgcc...............................   1        0        seq
```

novel-mir-candidate-195

Provisional ID	:	chr11_26085
Score total	:	5.6
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.3
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	37
Mature read count	:	37
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- gggcagcucacaccucuuccgcuuuccucccgugguccccuacuucuccuuucugggaggccugggccaggucucccacuuggagggggagucccuuuuggggagaacugggg  -3'    exp
    (((.(((.............))).))).(((((..(((((((((((((((((((((((((...)))))))))))))...)))))))))))))).....)))))..)).))).   reads      mm         sample
    ..............................................ccuuucugggaggccugggcca.......................................   1          0          seq
    ...............................................uucugggaggccugggccaggucucccacuugggag..........................   1          0          seq
    ..............................................................ugggccaggucucccacu...............................   1          0          seq
    ...................................................................ucucccacuugggagggggaU....................   4          1          seq
    ....................................................................ucucccacuugggagggggag...................   2          0          seq
    ....................................................................ucucccacuugggagggggagu...................   24         0          seq
    ...................................................................ucucccacuugggagggggaguA..................   1          1          seq
    ....................................................................ucucccacuugggagggggaguc..................   5          0          seq
    ....................................................................ucucccacuugggagggggaguU..................   1          1          seq
    ....................................................................ucucccacuugggagggggaguccuuuuU............   1          1          seq
```

novel-mir-candidate-295

Provisional ID	:	chr2_7294
Score total	:	1.9
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	22
Mature read count	:	22
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- acuucagggugugguucaaaagcugccccuggagggaggugguagggaggcgguggggagcugcacucaccccggccugucccccuccagcucagccagcagucacacugc  -3'   exp
    .(((((((.((((((....)))).))))))))))).(((.(((..(((((((.(.((((((.....))).)))).))).))).))))..)))).))).....(((((...)))))   reads    mm    sample
    ...........................................................ucaccccggccugucccccuccag.....................   1        0     seq
    ...........................................................accccggccugucCucucca.......................   1        1     seq
    ...........................................................accccggccugucccccuccag.....................   2        0     seq
    ...........................................................accccggccugucccccuccagU....................   10       1     seq
    ...........................................................accccggccugucccccuccagA....................   6        1     seq
    ...........................................................accccggccugucccccuccagUu...................   2        1     seq
```

novel-mir-candidate-394

Provisional ID	:	chr10_23690
Score total	:	1.4
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.7
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	462
Mature read count	:	460
Loop read count	:	0
Star read count	:	2

```
                 Mature      Star
5'- cugcccuggguuugagaucCGCGGGUGCUUACUGACCCUUUUGGGUUGGAGUUAGCUCAAGCGGUUACCUCCUCAGGCUGGACUUUCUAUCUGUCCAAAGCCAACUG  -3'    obs
    cugcccuggguuugagaucCGCGGGUGCUUACUGACCCUUUUGGGUUGGAGUUAGCUCAAGCGGUUACCUCCUCAGGCUGGACUUUCUAUCUGUCCAAAGCCAACUG         exp
    ..(((.(((((........((((..(.((((.(((((((((....)))))..)))).)))).)..))))......)))))))))(((((.........)))))..........   reads      mm         sample
    ...............agaCccgcgggugcuuacugacccu.......................................................................   1          1          seq
    ...............gaCccgcgggugcuuacugacccu........................................................................   1          1          seq
    ...............gaCccgcgggugcuuacugacccuuu.....................................................................   2          1          seq
    ................aCccgcgggugcuuacugacccu.......................................................................   6          1          seq
    ................aCccgcgggugcuuacugacccuu......................................................................   1          1          seq
    ..................ccgcgggugcuuacugacccu........................................................................   1          0          seq
    ....................cgcgggugcuuacugacc.........................................................................   24         0          seq
    ....................cgcgggugcuuacugaccc........................................................................   9          0          seq
    ....................cgcgggugcuuacAgacccu.......................................................................   2          1          seq
    ....................cgcgggugcuuacugaAccu.......................................................................   1          1          seq
    ....................cgcgggugcuuacugacccu.......................................................................   242        0          seq
    ....................cgcgggugcuuacugacccG.......................................................................   2          1          seq
    ....................cgcgggugcuuacugGcccu.......................................................................   1          1          seq
    ....................cgcgggCgcuuacugacccu.......................................................................   1          1          seq
    ....................cgcgggugCuacugacccu........................................................................   1          1          seq
    ....................cgcgggugcuuacugacccuG......................................................................   1          1          seq
    ....................cgcgggugcuuacugacccuu......................................................................   38         0          seq
    ....................cgcgggugcuuacugaccNuuu.....................................................................   1          1          seq
    ....................cgcgggCgcuuacugacccuuu.....................................................................   1          1          seq
    ....................cgcgggugcuuacugacccuuC.....................................................................   1          1          seq
    ....................cgcgggugcuuacugacccuuG.....................................................................   2          1          seq
    ....................cgcgggugcuuacugacccuuu.....................................................................   103        0          seq
    ....................cgcgggugcuuacugacccuuA.....................................................................   11         1          seq
    ....................cgcgggugcuuacugacccuuAu....................................................................   2          1          seq
    ....................cgcgggugcuuacugacccuuuu....................................................................   3          0          seq
    ....................cgcgggugcuuacugacccuuCu....................................................................   1          1          seq
    ....................cgcgggugcuuacugacccuuuA....................................................................   4          1          seq
    ....................cgcgggugcuuacugacccuuuU....................................................................   1          1          seq
    ....................cgcgggugcuuacugacccuuuAg...................................................................   4          1          seq
    ......................gcgggugcuuacugacccu......................................................................   1          0          seq
    .........................gugcuuacugacccuuuu.....................................................................   2          0          seq
    ..............................................uggguCggaguuagcucaagcgg.........................................   1          1          seq
    ..............................................uggguCggaguuagcucaagcggu........................................   1          1          seq
```

```
                 Mature      Star
cugcccuggguuugagaucCGCGGGUGCUUACUGACCCUUUUGGGUUGGAGUUAGCUCAAGCGGUUACCUCCUCAGGCUGGACUUUCUAUCUGUCCAAAGCCAACUG
.......................................................gcucaagcgguuaccuccu.................................   1          0          seq
.............................................................accuccucagCcuggacuuu....................   1          1          seq
```

novel-mir-candidate-352

Provisional ID	:	chr21_43390
Score total	:	1.7
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	37
Mature read count	:	37
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- gaaguugaggccuaccacggaggaggcugcugagguggaucucaggggauccgcaaggGCUCCCUCACCCUUGCCGGGACCCUGGGAACCCGAAACAAAAUCCUACGCCACCA -3'   exp
    ..(((...(((((.((.....)))))))))..(((((.(((((((..(((((((((((.......)))))))).)))).)))))))).....................))))).
```

reads	mm	sample
1	1	seq
1	0	seq
1	0	seq
1	1	seq
1	1	seq
21	0	seq
2	0	seq
3	1	seq
2	1	seq
2	1	seq
1	1	seq
1	0	seq

novel-mir-candidate-52

Provisional ID	:	chr12_28840
Score total	:	89
Score for star read(s)	:	3.9
Score for read counts	:	81.7
Score for mfe	:	2.4
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	172
Mature read count	:	150
Loop read count	:	0
Star read count	:	22

```
                    Mature                  Star
5'- ggggucgcggaucugcccgccccgcucucccgaagcuguucggGGCAGUGUCCGaacggcuucggaggggcgagaagccagcauccgagccgccucuccggaauaccagcagc  -3'   obs
    ggggucgcggaucugcccgccccgcucucccgaagcuguucggGGCAGUGUCCGaacggcuucggaggggcgagaagccagcauccgagccgccucuccggaauaccagcagc        exp
    ((((..((((.(((((..((.(((((((.((((((((((((((((...)))))))))))))))).)))))))..))..)))...)).)))).))))((....)).......   reads   mm   sample
    ......gcggaucugcccgccccgcu.....................................................................................   1       0    seq
    ...............cccgccccgcucucccgaagcug.........................................................................   2       0    seq
    ...............cccgccccgcucucccgaagcugu........................................................................   1       0    seq
    ...............cccgccccgcucucccgaagcuguu.......................................................................   1       0    seq
    ...............ccgccccgcucucccgaagcuguuU......................................................................   1       1    seq
    ................gccccgcucucccgaagcug...........................................................................   10      0    seq
    ................gccccgcucucccgaagcugu..........................................................................   4       0    seq
    ................gccccgcucucccgaagcuguu.........................................................................   17      0    seq
    ................gccAcgcucucccgaagcuguu.........................................................................   1       1    seq
    ................gccccgcucucccgaagcuguuU........................................................................   4       1    seq
    ................gccccgcucucccgaagcuguuc........................................................................   1       0    seq
    ................ccccgcucucccgaagcug............................................................................   1       0    seq
    ................ccccgcucucccgaagcugu...........................................................................   2       0    seq
    ................ccccgcucucccgaagcuguu..........................................................................   3       0    seq
    ................ccccgcucucccgaagcuguuU.........................................................................   1       1    seq
    ................ccccgcucucccgaagcuguuc.........................................................................   2       0    seq
    ...................cccgcucucccgaagcug...........................................................................   2       0    seq
    ...................cccgcucucccgaagcugA..........................................................................   1       1    seq
    ...................cccgcucucccgaagcugu...........................................................................   2       0    seq
    ...................cccgcucucccgaagcuguu..........................................................................   6       0    seq
    ...................cccgcucucccgaagcuguuc.........................................................................   3       0    seq
    ...................cccgcucucccgaagcuguuA.........................................................................   2       1    seq
    ...................cAcgcucucccgaagcuguucg........................................................................   1       1    seq
    ...................cccgcucucccgaagcuguucg........................................................................   41      0    seq
    ...................cccgcucucccgaagcugAucg........................................................................   1       1    seq
    ...................cccgcucucccgaagcuguucgU.......................................................................   16      1    seq
    ...................cccgcucucccgaagcuguucgg.......................................................................   1       0    seq
    ...................cccgcucucccgaagcuguucggU......................................................................   2       1    seq
    ...................cccgcucucccgaagcuguucggA......................................................................   1       1    seq
    ...................ccgcucucccgaagcuguuA..........................................................................   2       1    seq
    ...................ccgcucucccgaagcuguucg.........................................................................   6       0    seq
    ...................ccgcucucccgaagcuguucgg........................................................................   8       0    seq
    ...................cAgcucucccgaagcuguucgg........................................................................   1       1    seq
```

```
                    Mature                  Star
ggggucgcggaucugcccgccccgcucucccgaagcuguucggGGCAGUGUCCGaacggcuucggaggggcgagaagccagcauccgagccgccucuccggaauaccagcagc
.....................ccgcucucccgaagcuguucgA.......................................................   1       1       seq
.....................ccgcucucccgaagcuguucggA......................................................   4       1       seq
.....................ccgcucucccgaagcuguucggU......................................................   2       1       seq
.....................ccgcucucccgaagcuguucggg......................................................   1       0       seq
.......................cucucccgaagcuguucgggcaguguccga.............................................   1       0       seq
.........................cucccgaagcuguucgggcaguguccgaacggcuucggaggggc.............................   1       0       seq
...........................................cgggcaguguccgaacggcuucg...................................   1       0       seq
...............................................gaacggcuucggaggggcgagU..............................   1       1       seq
...............................................aacggcuucggaggggcg...................................   2       0       seq
...............................................aacggcuucggaggggcgaga................................   3       0       seq
...............................................aacggcuucggaggggcgagU................................   1       1       seq
...............................................aacggcuucggaggggcgagaa...............................   2       0       seq
...............................................aacggcuucggaggggcgagaU...............................   3       1       seq
...............................................aacggcuucggaggggcgagaaU..............................   5       1       seq
...............................................aacggcuucggaggggcgagaaA..............................   1       1       seq
...............................................acggcuucggaggggcgagaa................................   2       0       seq
...............................................acggcuucggaggggcgagaag...............................   1       0       seq
...............................................acggcuucggaggggcgagaaU...............................   1       1       seq
```

novel-mir-candidate-83

Provisional ID	:	chr2_7379
Score total	:	50.4
Score for star read(s)	:	3.9
Score for read counts	:	43.5
Score for mfe	:	2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	97
Mature read count	:	77
Loop read count	:	0
Star read count	:	20

```
                    Mature                  Star
5'- cucaugugccccacugaaauucgggcucccccucgggcagaggcguguaguguagcccugugucccagcaggagcccggcaccugucagaccugacacacacugggugcucaac  -3'    obs
    cucaugugccccacugaaauucgggcucccccucgggcagaggcguguaguguagcccugugucccagcaggagcccggcaccugucagaccugacacacacugggugcucaac         exp
    ....((.(((((((.((....(((((((((.((.(((((.(((.((.........)))))).)))))))..)))))))))....(((((....)))))..)).)))).)).)).. reads      mm         sample
    ............acugaaauucgggcucccccu.......................................................................................  1          0          seq
    ..................auucgggcucccccucgggcag...............................................................................  1          0          seq
    ..................auucgggcucccccucgggcaga..............................................................................  1          0          seq
    ..................auucgggcucccccucgggcagagA............................................................................  1          1          seq
    ..................uucgggcucccccucgggcaga...............................................................................  7          0          seq
    ..................uucgggcucccccucgggcNgag..............................................................................  1          1          seq
    ..................uucgggcucccccucgggcagag..............................................................................  3          0          seq
    ..................uucgggcucccccucgggcCgag..............................................................................  1          1          seq
    ..................uucgggcucccccucgggcagagU.............................................................................  5          1          seq
    ..................uucgggcucccccucgggcagagA............................................................................  15         1          seq
    ..................uucgggcucccccucgggcagagg.............................................................................  18         0          seq
    ..................uucgggcucccccucgggcagaggU............................................................................  2          1          seq
    ..................uucgggcucccccucgggcagaggA............................................................................  5          1          seq
    ...................ucgggcucccccucgggcaga...............................................................................  1          0          seq
    ...................ucgggcucccccucgggcagag..............................................................................  2          0          seq
    ...................ucgggcucccccucgggcCgag..............................................................................  1          1          seq
    ...................ucgggcucccccucgggcagagA.............................................................................  2          1          seq
    ...................ucgggcucccccucgggcagagU.............................................................................  1          1          seq
    ...................ucgggcucccccucgggcagagg..............................................................................  5          0          seq
    ...................ucgggcucccccucgggcagaggA.............................................................................  3          1          seq
    ...................ucgggcucccccucgggcagaggU.............................................................................  2          1          seq
    .......................................gaggcguguaguguagcccugugucc.....................................................  1          0          seq
    ...............................................uguguccagcaggagcccgg...................................................  4          0          seq
    ...............................................uguguccagcaggagcccAgc..................................................  1          1          seq
    ...............................................uguguccagcaggagcccggA..................................................  2          1          seq
    ...............................................uguguccagcaggagcccggc..................................................  2          0          seq
    ...............................................uguguccagcaggagcccggU..................................................  1          1          seq
    ...............................................uguguccagcaggagcccggcU.................................................  6          1          seq
    ...............................................uguguccagcaggagcccggAa................................................  2          1          seq
    ...............................................uguguccagcaggagcccggcaA...............................................  2          1          seq
    ..........................................cagcaggagcccggcaccugucagaccugacacacCc.....................................  1          1          seq
    ...........................................caggagcccggcaccugucagaccugacaca...........................................  1          0          seq
    .............................................gcccggcaccugucagaccugacacacac...........................................  1          0          seq
```

```
                    Mature                  Star
cucaugugccccacugaaauucgggcucccccucgggcagaggcguguaguguagcccugugucccagcaggagcccggcaccugucagaccugacacacacugggugcucaac
.......................................................................accugucagaccugacac................  1          0          seq
```

novel-mir-candidate-143

Provisional ID	:	chr21_43132
Score total	:	29
Score for star read(s)	:	3.9
Score for read counts	:	22.6
Score for mfe	:	1.6
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	56
Mature read count	:	46
Loop read count	:	0
Star read count	:	10

Mature Star

```
5'- caagacccuccuccagaaggcagccgcugaguucggggcucacuacugacugugccccucaggcugggcggcuccaguccauagacguuccccccagaaaccagggcuuc  -3'   obs
    caagacccuccuccagaaggcagccgcugaguucggggcucacuacugacugugccccucaggcugggcggcuccaguccauagacguuccccccagaaaccagggcuuc        exp
    .(((.((((.........((.(((((((.((((.(((((.(((.......)).)))))..)))).)))))))))).(((....))).(((......)))...)))))))).   reads   mm   sample
    ..................ggcagccgcugaguucggggc.......................................................................   1       0    seq
    ....................cagccgcugaguucgggg.........................................................................   1       0    seq
    ....................cagccgcugaguucggggc.........................................................................   40      0    seq
    ....................cagccgcugaguucggggcu........................................................................   2       0    seq
    ....................cagccgcugaguucggggcuU.......................................................................   2       1    seq
    ............................aguucggggcucacuacugacugugcc.........................................................   1       0    seq
    ..............................................acugacugugcccucaggcugggcggcuccagucc...............................   1       0    seq
    ...............................................ugacugugcccucaggcugggcggc.......................................   1       0    seq
    ......................................................ccucagUcugggcggcuccagu...............................   1       1    seq
    .......................................................ccucaggcugggcggcuccagu..............................   9       0    seq
```

novel-mir-candidate-439

Provisional ID	:	chr19_40244
Score total	:	1.1
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.6
Score for randfold	:	-2.2
Score for cons. seed	:	3
Total read count	:	14
Mature read count	:	14
Loop read count	:	0
Star read count	:	0

Mature **Star**

```
5'- gcagcgccgggguauugccgagugcuucgugcagagggugagugggagggugggggcucucgguccuggauggggccuuuguagagggggggagagcaggcuugggc -3'   exp
     .....(((.(((.(..((((...(.((((.(((((((((.(......((((.((((.....)))).)))).....).)))))))))))).)...).)))).)))).))))   reads     mm     sample
     ..........ggguauugccgagugcuucgugcagagg.......................................................................   1         0      seq
     ....................gagugcuucgugcagagg.......................................................................   13        0      seq
     ....................gaUugcuucgugcagagg.......................................................................   1         1      seq
```

novel-mir-candidate-123

Provisional ID	:	chr4_11865
Score total	:	37.6
Score for star read(s)	:	3.9
Score for read counts	:	33.3
Score for mfe	:	-0.5
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	77
Mature read count	:	76
Loop read count	:	0
Star read count	:	1

```
                    Mature                Star
5'- uuuauuguacucuuugaagcagaauuacucagagaccuuuaugucugugggugguuuggguguauaugguuagaaaaauucaagguucacaguagauguuauaaaauu  -3'    obs
    uuuauuguacucuuugaagcagaauuacucagagaccuuuaugucugugggugguuuggguguauaugguuagaaaaauucaagguucacaguagauguuauaaaauu         exp
    ((((((((...((((((((((....((((((((.((((..........)))).)))))))).....))).........)))))))...)))))))).............   reads      mm         sample
    ................aagcagGauuacucagaga.......................................................................   1          1          seq
    ................aagcagaauuacucUgaga.......................................................................   1          1          seq
    ..................gcagaauuacucUgagacc.....................................................................   1          1          seq
    ..................gcagaauuacucUgagaccu....................................................................   3          1          seq
    ...................Uagaauuacucagagacc.....................................................................   2          1          seq
    ..................cagaauuacucUgagacc......................................................................   2          1          seq
    ...................Uagaauuacucagagaccu....................................................................   4          1          seq
    ..................cagaauuacucUgagaccu.....................................................................   14         1          seq
    ....................aUaauuacucagagaccu....................................................................   1          1          seq
    ....................agaauuacucagagaGcu....................................................................   1          1          seq
    ....................agaauuacucCgagaccu....................................................................   23         1          seq
    ....................agaauuacucagagaccu....................................................................   18         0          seq
    ....................agaauuacucGgagaccu....................................................................   6          1          seq
    ....................agaauuacucCgagaccuu...................................................................   1          1          seq
    ...............................................uguuGgggguguauaugug.....................................   1          1          seq
```

novel-mir-candidate-396

Provisional ID	:	chr21_43091
Score total	:	1.4
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.7
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	12
Mature read count	:	11
Loop read count	:	1
Star read count	:	0

Star **Mature**

```
5'- ugagucacgugcagcugagcgggggccugucccuuccuguccuccuggauggaggcccucccugcgggguuccucugcucuuuccugccccacuccuucuuucaugaagcag  -3'    exp
    .((((...(.((((..((((((((((((((.(((((.((((....)))))))))).........)))))..)))))))))....)))).).)))))((((......)))).....  reads     mm        sample
    ........................................uccuggauggaggcccuc.............................................................  1         0         seq
    ..................................................................ccucugcucuuuccugccccaGu..................  2         1         seq
    ..................................................................cucugcucuuuccugccccaGu..................  8         1         seq
    ..................................................................ucugcucuuuccugcccca....................  1         0         seq
```

novel-mir-candidate-365

Provisional ID	:	chr6_17211
Score total	:	1.6
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.9
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	57
Mature read count	:	57
Loop read count	:	0
Star read count	:	0

Mature **Star**

```
5'- cuccaccccuucccucgcucccucccugacucugcgggcucucccgcugaacaggagcgagagcgcgaaagagggggaaacgggaaaaaaucccccccgcccgugccugg  -3'    exp
    .....(((((((.(.(((((((((((.((..((.(((((....)))))).)).)))))))..)..)))))).)...)))))))..(((((.............)))))......  reads     mm        sample
    ..................ucccucccugacucugcgg.......................................................................  1         0         seq
    ....................ccucccugacucugcggg......................................................................  1         0         seq
    ....................Gcucccugacucugcgggcu....................................................................  1         1         seq
    ....................ccucccugacucugcgggcu....................................................................  22        0         seq
    ....................ccucccugacucugcgggNucu..................................................................  1         1         seq
    ....................ccucccugacucugcgggcucG..................................................................  1         1         seq
    ....................ccucccugacucugcgggcucu..................................................................  9         0         seq
    ....................ccucccugacucugcgggcucucU................................................................  7         1         seq
    .....................cucccugacucugcgggcu....................................................................  5         0         seq
    .....................cucccugacucugcgggcuc...................................................................  1         0         seq
    .....................cucccugacucugcgggcucu..................................................................  6         0         seq
    .....................cucccugacucuUcgggcucu..................................................................  1         1         seq
    .....................cucccugacucugcgggcucucU................................................................  1         1         seq
    ......................ccugacucugcgggcucucccg................................................................  1         0         seq
    ..............................................cugaacaggagcgagagcgcga.........................................  1         0         seq
    ..............................................cugaacaggagcgagagcgcgaaG.......................................  1         1         seq
    ...............................................ugaacaggagcgagagcgcgaU........................................  1         1         seq
```

novel-mir-candidate-111

Provisional ID	:	chr7_18035
Score total	:	41.1
Score for star read(s)	:	3.9
Score for read counts	:	33.8
Score for mfe	:	2.4
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	78
Mature read count	:	75
Loop read count	:	0
Star read count	:	3

```
                                   Star                                   Mature
5'- gcagccuucccucccccccucgccgaggcggcgggggugugcguuggggaggggagccccgagacuccucccccacagcgauacccccgcccccuccccccuuacacacucgc  -3'    obs
    gcagccuucccucccccccucgccgaggcggcgggggugugcguuggggaggggagccccgagacuccucccccacagcgauacccccgcccccuccccccuuacacacucgc         exp
    ........................((((.(((((((((((.((((((((.(((((((.........)))))))))).)))))))))))))))))))).................   reads      mm         sample
    ......................cgccgCggcggcgggggug.......................................................................   1          1          seq
    ......................Cccgaggcggcgggggug.......................................................................   1          1          seq
    ............................ggcggcgggggugugUguu..................................................................   1          1          seq
    ..............................cggcgggggugugcguuggggagg...........................................................   1          0          seq
    ................................gcgggggugugcguuggggagg..........................................................   1          0          seq
    ................................gcgggggugugcguuggggagg..........................................................   1          1          seq
    ..............................cggcgggggugugcguuggggagg...........................................................   1          0          seq
    ..............................................ccgagacuccucccccacagA...............................................   1          1          seq
    ...............................................cgagacuccucccccacagcgauacccccgcccc.................................   1          0          seq
    ..............................................gagacuccucccccacagcgauacccccgccccu.................................   1          0          seq
    ...................................................cucccccacagcgauacccccgA.....................................   1          1          seq
    ...................................................uccccccacagcgauacccccg......................................   3          0          seq
    ...................................................uccccccacagcgauacccccgA.....................................   2          1          seq
    ...................................................uccccccacagcgauacccccgc.....................................   1          0          seq
    ...................................................uccccccacagcgauacccccgU.....................................   2          1          seq
    ...................................................uccccccacagcgauacccccgcU....................................   3          1          seq
    ...................................................uccccccacagcgauacccccgcc....................................   3          0          seq
    ...................................................uccccccacagcgauacccccgccU...................................   3          1          seq
    ...................................................uccccccacagAgauacccccgccc...................................   1          1          seq
    ...................................................uccccccacagcgauacccccgccA...................................   1          1          seq
    ...................................................uccccccacagcgauacccccgcccU..................................   1          1          seq
    ...................................................uccccccacagcgauacccccgccccu.................................   2          0          seq
    ....................................................cccccacagcgauacccc.........................................   1          0          seq
    ....................................................cccccacagcgauacccccgA......................................   1          1          seq
    ....................................................cccccacagcgauacccccgcA.....................................   1          1          seq
    ....................................................cccccacagcgauacccGcgcc.....................................   1          1          seq
    ....................................................cccccacagcgauacccccgcc.....................................   8          0          seq
    ....................................................cccccacagcgauacccccgcU.....................................   2          1          seq
    ....................................................cccccacagcgauacccccgccc....................................   5          0          seq
    ....................................................cccccacagcgauacccccgccA....................................   2          1          seq
    ....................................................cccccacagcgauacccccgccU....................................   3          1          seq
    ....................................................cccccacagcgauacccccgcccU...................................   1          1          seq
    ....................................................cccccacagcgauacccccgccccu..................................   2          0          seq
```

```
                                   Star                                   Mature
gcagccuucccucccccccucgccgaggcggcgggggugugcguuggggaggggagccccgagacuccucccccacagcgauacccccgcccccuccccccuuacacacucgc
.......................................................................cccccacagcgauacccccgcc.....................   1          0          seq
.......................................................................ccccacagcgauacccccgcccU....................   1          1          seq
.......................................................................ccccacagcgauacccccgccccA...................   1          1          seq
.......................................................................ccccacagcgauacccccgcccAu...................   1          1          seq
.......................................................................cccacagcgauacccccgccU......................   1          1          seq
.......................................................................ccacagcgauacccccgccccu.....................   1          0          seq
.......................................................................ccacagcgauacccccgcccUu.....................   1          1          seq
.......................................................................cacagcgauacccccgccA........................   2          1          seq
.......................................................................cacagcgauacccccgcccU.......................   1          1          seq
.......................................................................cacagcgauacccccgccccu......................   5          0          seq
.......................................................................acagcgauacccccgccccu.......................   6          0          seq
.......................................................................Ccagcgauacccccgccccu.......................   1          1          seq
.......................................................................acagcgauacccccgccccuc......................   1          0          seq
.......................................................................acagcgauacccccgccccuU......................   1          1          seq
.......................................................................acagcgauacccccgccccucU.....................   1          1          seq
.......................................................................accGccgccccuccccccu........................   1          1          seq
```

novel-mir-candidate-446

Provisional ID	:	chr6_16583
Score total	:	1
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.5
Score for randfold	:	-2.2
Score for cons. seed	:	3
Total read count	:	22
Mature read count	:	22
Loop read count	:	0
Star read count	:	0

Mature **Star**

```
5'- guguuucugugcaguggugcacccaggggcucuggccagaggaggucacaggaagaugccuagcggcccguggagcgaccugccccgcauugucacuugaccgcugg  -3'   exp
    (((.((..(((((((((.(((....((((.(((((((((..(((..(((.......))).)))...)))))...)))))..))))..)))))))).)))..)).)))...   reads    mm    sample
    ....................cacccaggggcucuggcc.......................................................................   21       0     seq
    ....................Aacccaggggcucuggcc.......................................................................   1        1     seq
```

novel-mir-candidate-218

Provisional ID	:	chr16_35258
Score total	:	4
Score for star read(s)	:	3.9
Score for read counts	:	0.6
Score for mfe	:	2.2
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	13
Mature read count	:	12
Loop read count	:	0
Star read count	:	1

Mature **Star**

```
5'- acggggcugaggagagcgggcagccucggagccagcagggcgugguggucagaguagcugucgacaccuguggguuugcagggggaggggcggccccagcuggcccagcu  -3'   obs
    acggggcugaggagagcgggcagccucggagccagcagggcgugguggucagaguagcugucgacaccuguggguuugcagggggaggggcggccccagcuggcccagcu        exp
    ....(((((.((..(((((((.(((((.....((.(((((((.((.((((..(((.....)))....))))..))).)))))))..))....)))))).))))..)))..))))))).
    .cggggcugaggGgagcgg.......................................................................................  1   1   seq
    ....................cagccucggagccagcag.....................................................................  4   0   seq
    ....................cagccucggagccagcagg....................................................................  2   0   seq
    ....................cagccucggagccagcaggg...................................................................  4   0   seq
    .....................gccucggagccagcaggg....................................................................  2   0   seq
    ........................................................................ugcagggggaggggAggcc.............  1   1   seq
```

novel-mir-candidate-283

Provisional ID	:	chr15_33884
Score total	:	2
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.3
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	333
Mature read count	:	333
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- ccgcccgggcgccuacgccuucccacucucagguucugugcugcgagcggcgcgagccucuggcagcgggcucggccuuugcucgcagcacucggcgcuguccccaggaaccc  -3'    exp
    ......(((((....)))))))(((.....((((((..(((((((((((((((.(((((((.........)))))))))))...)))))))))))..)))).)))).....)))....
    ...............................................cggcgcgagccucuggcagcgggcucgg.....................................
    ...................................................................Ccucggccuuugcucgcagcacu....................
    ...................................................................cucggccuuugcucgcag........................
    ...................................................................cucggccuuugcucgcagc.......................
    ...................................................................cucggccuuugcucgcagca......................
    ...................................................................cucggccuuugcucgcagcU......................
    ...................................................................cucggccuuugcucgcagcac.....................
    ...................................................................cucggccuuugcucgcagcaU.....................
    ...................................................................cucggccuuugcucgcagcaA.....................
    ...................................................................cucAgccuuugcucgcagcacu....................
    ...................................................................cCcggccuuugcucgcagcacu....................
    ...................................................................Nucggccuuugcucgcagcacu....................
    ...................................................................cucggccCuugcucgcagcacu....................
    ...................................................................cucggccuuugcucgcagAacu....................
    ...................................................................cucggccuuugcucgcagcacu....................
    ...................................................................cucggccuuugcucgcagNacu....................
    ...................................................................cucggccuuugcucgcagcacA....................
    ...................................................................cucggccuuugcucgcagcacuA...................
    ...................................................................cucggccuuugcucgcGgcacuc...................
    ...................................................................cGcggccuuugcucgcagcacuc...................
    ...................................................................cucggccCuugcucgcagcacuc...................
    ...................................................................cucggccuuugcucgcagcacuc...................
    ...................................................................cucggccuuugcucgcagcacucA..................
    ...................................................................cucAgccuuugcucgcagcacucg..................
    ...................................................................cucggccuuugcucgcagcacucg..................
    ...................................................................cucggccuuugcucgcagcacucU..................
    ...................................................................cucggccuuugcucgcagcacucgA.................
    ...................................................................cucggccuuugcucgcagcacucgg.................
    ...................................................................cucggccuuugcucgcagcacucgU.................
    ...................................................................cucggccuuugcucgcagcacucggc................
    ...................................................................ucggccuuugcucgcagcacucg...................
    ...................................................................uUggccuuugcucgcagcacucg...................
    ...................................................................ucggccuuugcucgcagcacucgA.................
    ...................................................................ucggccuuugcucgcagcacucggU................
```

Star Mature

```
ccgcccgggcgccuacgccuucccacucucagguucugugcugcgagcggcgcgagccucuggcagcgggcucggccuuugcucgcagcacucggcgcuguccccaggaaccc
.......................................................................cucgcagcacucggcgcug............  1  0  seq
.......................................................................agcacucggcgcuguccc........  1  0  seq
```

novel-mir-candidate-282

Provisional ID	:	chr8_21712
Score total	:	2
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.3
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	69
Mature read count	:	69
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- gucagcuccucgagaagccccaggucaguccucgauggggguggggugugggaggugggugcagccccacaguccugagcuccacccccucagccacaggaccuagcccuca  -3'   exp
    ...........(((..((...(((((.((.((.((((((((((..((((.(((((((...)))))))..))))..))))))))))))))))..))..)))))..)).))).   reads    mm      sample
    ...........................................................agcccacaguccugagcuccacccccucU.....................   3        1       seq
    ...........................................................cacaguccugagcuccacccccC......................   1        1       seq
    ...........................................................caguccugagcuccaccc..........................   2        0       seq
    ...........................................................caguccugagcuccacccc.........................   1        0       seq
    ...........................................................caguccugagcuccaccccA........................   1        1       seq
    ...........................................................caguccugagcuccaccccc........................   3        0       seq
    ...........................................................caguccugagcuccaccccccA......................   1        1       seq
    ...........................................................caguccugagcuccacccccu.......................   12       0       seq
    ...........................................................caguccugagcuccaccccccuc.....................   6        0       seq
    ...........................................................caguccugagcuccacccccuU......................   1        1       seq
    ...........................................................caguccugagcuccacccccuAa.....................   1        1       seq
    ...........................................................caguccugagcuccacccccuGa.....................   1        1       seq
    ...........................................................caguccugagcuccacccccuUa.....................   1        1       seq
    ...........................................................caguccugagcuccacccccucU.....................   7        1       seq
    ...........................................................caguccugagcuccaccccccuca....................   24       0       seq
    ...........................................................caguccugagcuccaccccccucag...................   1        0       seq
    ...........................................................caguccugagcuccaccccccucaU...................   2        1       seq
    ...........................................................caguccugagcuccaccccccucaA...................   1        1       seq
    ...........................................................caguccugagcuccaccccccucagA..................   2        1       seq
    ...........................................................aguccugagcuccacccccuAa......................   1        1       seq
    ...............................................................................caccccucagccacaggac..........   2        0       seq
    ...................................................................................agccacaggaccuagcccuc.   1        0       seq
```

novel-mir-candidate-340

Provisional ID	:	chr2_5677
Score total	:	1.8
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	56
Mature read count	:	56
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- aaaagacagaaggccugacuuuggggugggggcaagggguuugucuggauugcagaucgcauugcacagaccccuggcucugacccccucucaucccggaagaagagg  -3'   exp
    .((((.(((.....))).)))))(((((((((((.(((((((((..(.(.(((.....))).).)))))))))))).)))))).)))))).(((.((......)).))).   reads    mm    sample
    ...........................................................acagaccccuggcucugacccG.....................   1        1     seq
    ...........................................................cagaccccuggcucugac.........................   1        0     seq
    ...........................................................gaGcccuggcucugaccccc.......................   1        1     seq
    ...........................................................gaccccuggcucugaccccc.......................   1        0     seq
    ...........................................................accccuggcucugaccccc.......................   1        0     seq
    ...........................................................accccuggcucugacccccu......................   4        0     seq
    ...........................................................accccuggcucugaccccccuc....................   1        0     seq
    ...........................................................accccuggcucugacccccucuA...................   1        1     seq
    ...........................................................accccuggcucugacccccucucaucccggaagaagagg   1        0     seq
    ...........................................................ccccuggcucugaccccc.........................   34       0     seq
    ...........................................................ccAcuggcucugaccccc.........................   1        1     seq
    ...........................................................ccccuggcucugaccGccu.......................   1        1     seq
    ...........................................................ccccuggcucugacccccu......................   4        0     seq
    ...........................................................ccccuggcucugaccccccuc....................   3        0     seq
    ...........................................................ccccuggcucugacccccucA....................   1        1     seq
    ...........................................................ccccuggcucugacccccucuU...................   1        1     seq
    ...........................................................cccuggcucugaccccu.........................   1        0     seq
    ...........................................................cccuggcucugacccccucuA....................   1        1     seq
```

novel-mir-candidate-375

Provisional ID	:	chr2_5011
Score total	:	1.6
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.9
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	19
Mature read count	:	19
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- ucacaugagaagacaugauucugaagggcuuaggaccuucagcugucucaguacccaaggaucacaggccugggcacugcagcaggcaucagucuuaucguugagac  -3'   exp
    (((.((((.(((((.((((..((((((........)))))))((((((..((((.((((.((.........)))))).))))..))))))))))))))).)))))))...   reads    mm       sample
    ..............................................................cugggcacugcagcaggc...................   19       0        seq
```

novel-mir-candidate-407

Provisional ID	:	chr1_2467
Score total	:	1.3
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	-1.9
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	347
Mature read count	:	347
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- guaaauauaagaaagcaucugcauaauacuuucuauuucucuucuauuuucauagaaguauaaaccucaugaggcaguagauuguauuuuaaagaugacauuucuca  -3'    exp
    .........((((((((((....(((((..((((((.((((((((((....))))))..............))))).))))))..))))))....))))))).).)))))..  reads     mm        sample
    ..........................................................................ugaggAaguagauuguau....................  4         1         seq
    ..........................................................................Cgaggcaguagauuguau....................  1         1         seq
    ..........................................................................ugaggGaguagauuguau....................  22        1         seq
    ..........................................................................ugaggcaguagauuguau....................  21        0         seq
    ..........................................................................ugaggcaguagGuuguau....................  17        1         seq
    ..........................................................................ugaggcaguagauuguauu...................  1         0         seq
    ..........................................................................ugaggcaguagGuuguauu...................  3         1         seq
    ..........................................................................ugaggUaguagauuguauu...................  204       1         seq
    ..........................................................................ugaggcaguagauuguauA...................  54        1         seq
    ..........................................................................ugaggUaguagauuguauuu..................  13        1         seq
    ..........................................................................ugaggcaguagGuuguauuu..................  1         1         seq
    ..........................................................................ugaggUaguagauuguauuuu.................  6         1         seq
    ...............................................................................aguagaCuguauuuuaaaga............  1         1         seq
```

novel-mir-candidate-240

Provisional ID	:	chr1_784
Score total	:	2.3
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.6
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	20
Mature read count	:	20
Loop read count	:	0
Star read count	:	0

Mature Star

```
5'- ggccgggacucgggcuccucuccggucggucucggaaccgaagcugccgcagccucgggaauggggccggccggagaaguccagucagcucggcuugucugggcgcucccg  -3'   exp
    ((((((((((.(((((..((((((((((((((((...((((.((((...)))).))))...)))))))))))))))))))))))))...)))))).....(((....))).   reads    mm    sample
    ..................ucuccggucggucucggaaccga.......................................................................   1        0     seq
    ...................uccggucggucucggaaccga........................................................................   12       0     seq
    ...................uccggucggucucggaaccgaa.......................................................................   5        0     seq
    ...................uccggucggucucggaaccgaaA......................................................................   1        1     seq
    ...................uccggucggucucggaaccgaaU......................................................................   1        1     seq
```

novel-mir-candidate-301

Provisional ID	:	chr11_25403
Score total	:	1.9
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	97
Mature read count	:	97
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- gccugggugaggcugggccagggaccuggggcuugugggugucggcucccauccccgggguccucccccgccgucccucccccucccccgcccucucucccacccucc  -3'   exp
   ...(((((.((((.((((..((((....(((((..(((((.(..((((((.....)))))).).)))))).)))))...))))..)))).)))).).)))).....
   ..............................................................ccccgccCuccuccccccc.........................
   ..............................................................cgccgGccuccccccccucc.......................
   ..............................................................cgccgGccuccccccccuccc......................
   ..............................................................cCccguccuccccccccucccc.....................
   ..............................................................Cccguccuccccccccucccc......................
   ..............................................................ccguccuccccccccucccc......................
   ..............................................................cGguccuccccccccucccc......................
   ..............................................................ccguccuccccccccucccccG....................
   ..............................................................ccguccuccccccccucccccGg...................
   ..............................................................cguccuccccccccucccccG.....................
   ..............................................................cguccuccccccccucccccGg....................
   ..............................................................guccuccccccccucccccGg.....................
   ..................................................................uccccccccccccccgcccC...............
   ...................................................................gcccucAcucccacccuc.
```

reads	mm	sample
1	1	seq
1	1	seq
1	1	seq
35	1	seq
11	1	seq
15	0	seq
2	1	seq
15	1	seq
5	1	seq
3	1	seq
2	1	seq
7	1	seq
2	1	seq
1	1	seq

novel-mir-candidate-199

Provisional ID	:	chr10_24446
Score total	:	5.4
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.1
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	52
Mature read count	:	52
Loop read count	:	0
Star read count	:	0

Mature **Star**

```
5'- ggaggcacaccugggccucccuuagggcccuggcuccaucccugcagaugaggagcucuggaaaagggcaaaguccccggaggcugaggagugggggcgggcuccaaggugguc  -3'   exp
    ((((((........))))))...((((((..(((((((((((...((.(((((((((.....)))))).....)))))...))..)))).))))))))))))........
    ...................cuuagggcccuggcuccaucU.....................................................................   reads    mm    sample
    ...................uuagggcccuggcuccau.......................................................................   5        0     seq
    ...................uuagggcccuggcuccauU......................................................................   1        1     seq
    ...................uuagggcccuggcuccauc......................................................................   37       0     seq
    ...................uuagggcccuggcuccauA......................................................................   5        1     seq
    ...................uuagggcccuggcuccaucG.....................................................................   1        1     seq
    ...................uuagggcccuggcuccaucA.....................................................................   1        1     seq
    ...................uuagggcccuggcuccaucUu....................................................................   1        1     seq
```

novel-mir-candidate-276

Provisional ID	:	chr8_21652
Score total	:	2
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.3
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	17
Mature read count	:	17
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- gguggagguaggcugucucccagccuuggcucagugcggggagcaggcugacucucuggcugggcugccgugaggugagcucgcugccugaccucccugugucca  -3'   exp
    ...((((((((((...(((((.((((......)).)).))))))((.((((.((.(((((((......)))).)))))).)))).)))))))).)))))))........   reads    mm       sample
    ..........................................................gccgugaggugagcucgc.....................   16       0        seq
    ..........................................................gccgAgaggugagcucgc.....................   1        1        seq
```

novel-mir-candidate-293

Provisional ID	:	chr17_37253
Score total	:	1.9
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	511
Mature read count	:	510
Loop read count	:	0
Star read count	:	1

```
                    Star                    Mature
5'- ccugccccagaguuacacuuuagggcacugugggggcggggagcagacaggggccccccagcacgcgggcuccccugaccugccuuuucccgcaggaguccccuguuucugcu  -3'   obs
    ccugccccagaguuacacuuuagggcacugugggggcggggagcagacaggggccccccagcacgcgggcuccccugaccugccuuuucccgcaggaguccccuguuucugcu        exp
    ..(((((.(((((...))))).)))))((((((((((((((...(((...(((((((.(......).)))))))).))).)))))))...)))))))..................   reads   mm   sample
    ...............................gggcggggagcagacaggggcc.......................................................   1       0    seq
    ...........................................................ccccagcacgcgggcuccccugaccugccuuuucccgcagU................   1       1    seq
    ...........................................................cccagcacgcgggcuccccugaccugccuuuucccgcagU.................   1       1    seq
    ...........................................................cccagcacgcgggcuccccugaccugccuuuucccgcagA.................   1       1    seq
    ..................................................................gcuccccugaccugccuu.........................   1       0    seq
    ..................................................................gcuccccugaccugccuuu........................   5       0    seq
    ..................................................................gcucUccugaccugccuuuu.......................   1       1    seq
    ..................................................................gcuccccugaccugccuuuu.......................   9       0    seq
    ..................................................................gcuccccugaccugccuuuuc......................   1       0    seq
    ..................................................................gcuccccugaccugccuuuuA......................   1       1    seq
    ..................................................................gcuccUcugaccugccuuuucc.....................   1       1    seq
    ..................................................................gcuccccugaccugccuuuucc.....................   3       0    seq
    ..................................................................gcuccccugaccugccuuuuccc....................   3       0    seq
    ..................................................................gcuccccugaccugccuuuucccg...................   9       0    seq
    ..................................................................gcuccccugaccugccuuuucccgU..................   2       1    seq
    ..................................................................cuccccugaccuUccuuu.........................   1       1    seq
    ..................................................................cuccccugaccugccuuu.........................   4       0    seq
    ..................................................................cuccccugaccugccuuuu........................   16      0    seq
    ..................................................................cuccccugaccugccuuuuc.......................   7       0    seq
    ..................................................................cuccccugaccugccuuuuA......................   1       1    seq
    ..................................................................cuccccugaccugccuuuucA.....................   1       1    seq
    ..................................................................cuccccugaccugccuuuucc.....................   11      0    seq
    ..................................................................cuccccugaccugccuuuuccc....................   11      0    seq
    ..................................................................cuccccugaccuUccuuuucccg...................   2       1    seq
    ..................................................................cuccccGgaccugccuuuucccg...................   1       1    seq
    ..................................................................cCccccugaccugccuuuucccg...................   1       1    seq
    ..................................................................cuccccugaccugccuuGucccg...................   1       1    seq
    ..................................................................cuccccugaccugccuuuucccg...................   132     0    seq
    ..................................................................cucAccugaccugccuuuucccg...................   1       1    seq
    ..................................................................cGccccugaccugccuuuucccg...................   3       1    seq
    ..................................................................cuccccugaccugccuuuNcccg...................   1       1    seq
    ..................................................................cuccccugaccugccuuuucccU...................   4       1    seq
    ..................................................................cuccccugaccugccuuuucccgA..................   38      1    seq
```

```
                    Star                    Mature
ccugccccagaguuacacuuuagggcacugugggggcggggagcagacaggggccccccagcacgcgggcuccccugaccugccuuuucccgcaggaguccccuguuucugcu
.......................................................................cuccccugaccugccuuuucccgG...................   1       1    seq
.......................................................................Guccccugaccugccuuuucccgc...................   1       1    seq
.......................................................................cuccccugaccugccuuuNcccgc...................   1       1    seq
.......................................................................cuccccugaccugccuuuucccgU...................   59      1    seq
.......................................................................cuccccugaccuUccuuuucccgc...................   1       1    seq
.......................................................................cuccccugaccugccuuuucccUc...................   2       1    seq
.......................................................................cuccccugaccugccuuuucccgc...................   46      0    seq
.......................................................................cuccccugaccugccuuuucccgca..................   18      0    seq
.......................................................................cuccccugaccugccuuuucccgcC..................   1       1    seq
.......................................................................Auccccugaccugccuuuucccgca..................   1       1    seq
.......................................................................cuccccugaccugccuuuucccgcU..................   20      1    seq
.......................................................................cuccccugaccugccuuuucccUca..................   3       1    seq
.......................................................................cuccccugaccugccuuuucccgUa..................   3       1    seq
.......................................................................cuccccugaccugccuuuucccgcaA.................   1       1    seq
.......................................................................cuccccugaccugccuuuucccgcag.................   4       0    seq
.......................................................................cuccccugaccugccuuuucccgcaU.................   3       1    seq
.......................................................................cuccccugaccugccuuuucccgcagU................   3       1    seq
.......................................................................uccccugaccugccuuuuc........................   2       0    seq
.......................................................................uccccugaccugccuuuuccc......................   1       0    seq
.......................................................................ucAccugaccugccuuuucccg.....................   1       1    seq
.......................................................................uccccugaccugccuuuucccg.....................   20      0    seq
.......................................................................uccccugaccugccuuuucccgc....................   12      0    seq
.......................................................................uccccugaccugccuuuucccgU....................   3       1    seq
.......................................................................uccccugaccugccuuuuAccgc....................   1       1    seq
.......................................................................uccccugaccugccuuuucccgA....................   5       1    seq
.......................................................................uccccugaccugccuuuucccgcU....................   2       1    seq
.......................................................................uccccugaccugccuuuucccgca...................   9       0    seq
.......................................................................uccccugaccugccuuuucccgcC...................   1       1    seq
.......................................................................uccccugaccugccuuuucccgcagU.................   1       1    seq
.......................................................................uccccugaccugccuuuucccgcagA.................   3       1    seq
.......................................................................ccccugaccugccuuuucccgA.....................   2       1    seq
.......................................................................ccccugaccugccuuuucccgc.....................   1       0    seq
.......................................................................ccccugaccugccuuuucccgca....................   1       0    seq
.......................................................................ccccugaccugccuuuucccgcag...................   1       0    seq
.......................................................................ccccugaccugccuuuucccgcagU..................   1       1    seq
.......................................................................cccugaccugccuuuucccgca.....................   1       0    seq
.......................................................................cccugaccugccuuuucccgcagC...................   1       1    seq
.......................................................................cccugaccugccuuuucccgcagA...................   1       1    seq
```

novel-mir-candidate-334

Provisional ID	:	chr12_29099
Score total	:	1.8
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	50
Mature read count	:	50
Loop read count	:	0
Star read count	:	0

Mature Star

```
5'- agcauggaaccccucagguccuggcucagcgugugccugugugccucucgcaggcaccaccuggcgggggagcaguggugaacuccauggcauuuuuggcuucucu  -3'    exp
    ..(((((((((((....((((.((.(((.(((((((((((.......)))))))).)))))))).))))....)).)))).....)))))).................   reads     mm        sample
    ...................ccuggcucagcgugugcc.............................................................................   1         0         seq
    ...................Gcuggcucagcgugugcc.............................................................................   1         1         seq
    ...................ccuggcucagcgugugccG............................................................................   1         1         seq
    ....................Guggcucagcgugugccu............................................................................   1         1         seq
    ....................Uuggcucagcgugugccu............................................................................   1         1         seq
    ....................cuggcucagcgugugccu............................................................................   44        0         seq
    ....................cuggcucagcgugugccA............................................................................   1         1         seq
```

novel-mir-candidate-46

Provisional ID	:	chr12_28051
Score total	:	101.7
Score for star read(s)	:	3.9
Score for read counts	:	94.4
Score for mfe	:	2.3
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	197
Mature read count	:	168
Loop read count	:	0
Star read count	:	29

```
                                 Star                                 Mature
5'- caaggugaggggcaccugggguuuggggugggggugagcagccccucgguguccgccuaugccuggaccugaggguuugacugcccccccaccaggccuggacug  -3'    obs
     caaggugaggggcaccugggguuuggggugggggugagcagccccucgguguccgccuaugccuggaccugaggguuugacugcccccccaccaggccuggacug         exp
     (..(((((.....)))))..)(((((..(((((((((((.(((((.(((((((.(((((........)))))))))))).))).))))))))))))))))).....    reads      mm         sample
     ........................gggggugggggugagcagccccucgguguccgcc.......................................    1          0          seq
     ........................gggggugggggugagcagccccucgguguccgccu......................................    1          0          seq
     ............................gugggggugagcagccccucgguguccgc.......................................    1          0          seq
     ............................gugggggugagcagccccucgguguccgcc......................................    1          0          seq
     ............................gGgggggugagcagccccucgguguccgccu.....................................    1          1          seq
     ............................gugggggAugagcagccccucgguguccgccu.....................................    1          1          seq
     ............................gugggggugagcagccccucgguguccgccu......................................    11         0          seq
     ............................guggggAggugagcagccccucgguguccgccu....................................    1          1          seq
     ............................gugggggugagcagccccucgguguccgccua.....................................    1          0          seq
     ............................ugggggugagcagccccucgguguccgccu......................................    5          0          seq
     ............................ugggggugagcagccccucggCguccgccu......................................    1          1          seq
     ............................gggggugagcagccccucgguguccgccu.......................................    4          0          seq
     ...............................gggggugagcUgccccucgguguc.........................................    1          1          seq
     ...............................ggggugagcagccccucgguguccgccu.....................................    1          0          seq
     ..................................ccccucgguguccgccuaugccuggaccug...................................    1          0          seq
     ..........................................ccgccuaugccuggaccugaggguuugacug.........................    1          0          seq
     ..............................................uaugccuggaccugaggguuugacugcccccccacA............    1          1          seq
     ..............................................augccuggaccugaggguuugacugcccccccaccc............    1          0          seq
     ..............................................augccuggaccugaggguuugacugcccccccacccag..........    1          0          seq
     ...............................................ugccuggaccugaggguuugacugcccccccacccU...........    1          1          seq
     ...............................................ugccuggaccugaggguuugacugcccccccacccaC..........    1          1          seq
     ...............................................ugccuggaccugaggguuugacugcccccccacccagA.........    1          1          seq
     ................................................gccuggaccugaggguuugacugcccccccacccag..........    1          0          seq
     ..................................................ccuggaccugaggguuugacugcc.......................    1          0          seq
     ...................................................cuggaccugaggguuugacugcccccccacccag...........    1          0          seq
     ....................................................uggaccugaggguuugacu...........................    1          0          seq
     .....................................................ggaccugaggguuugacugcccccccacccag............    1          0          seq
     ......................................................accugaggguuugacugcc.........................    28         0          seq
     .......................................................Cccugaggguuugacugcc........................    1          1          seq
     .......................................................accugaggguuugacugccA.......................    5          1          seq
     .......................................................accugaggguuugacugccc.......................    7          0          seq
     .......................................................accugaggguuugacugccU.......................    1          1          seq
     .......................................................accugaggguuugacuAccc.......................    1          1          seq
```

```
                                 Star                                 Mature
caaggugaggggcaccugggguuuggggugggggugagcagccccucgguguccgccuaugccuggaccugaggguuugacugcccccccaccaggccuggacug
.......................................................accugaggguuugacugcccU.......................    1          1          seq
.......................................................accugaggguuugacugcccc.......................    2          0          seq
.......................................................accugaggguuugacugccccA......................    1          1          seq
.......................................................accugaggguuugacugccccU......................    4          1          seq
.......................................................accugaggguuugacugccccc......................    12         0          seq
.......................................................accugaggguuugacugcccccc.....................    8          0          seq
.......................................................accugaggguuugacugccccccA....................    1          1          seq
.......................................................accugaggguuugacugccNccc.....................    1          1          seq
.......................................................accugaggguuugacugcccccU.....................    2          1          seq
.......................................................accugaggguuugacugccccccU....................    2          1          seq
.......................................................accugaggguuugacugccccccca...................    14         0          seq
.......................................................accugaggguuugacugcccccccaA..................    2          1          seq
.......................................................accugaggguuugacugcccccccac..................    6          0          seq
.......................................................accugaggguuugacugcccccccaU..................    5          1          seq
.......................................................accugaggguuugacugccAcccacc..................    1          1          seq
.......................................................Cccugaggguuugacugcccccccacc..................    2          1          seq
.......................................................accugaggguuugacugcccccccacc..................    12         0          seq
.......................................................accugaggguuugacugcccccccacA.................    3          1          seq
.......................................................accugaggguuugacugcccccccacU.................    28         1          seq
.......................................................accugaggguuugacugcccccccaccA................    1          1          seq
.......................................................accugaggguuugacugcccccccaccU................    1          1          seq
.......................................................ccugaggguuugacugcccccccacU..................    2          1          seq
.............................................gagguuugacugcccccccacccag.........................    1          0          seq
.............................................guuugacugcccccccacccag............................    2          0          seq
.............................................guuugacugcccccccacccagA...........................    4          1          seq
.............................................guuugacugcccccccacccagU...........................    4          1          seq
.............................................uuugacugcccccccacccag.............................    1          0          seq
.............................................uuugacugcccccccacccagA............................    1          1          seq
```

novel-mir-candidate-146

Provisional ID	:	chr4_11513
Score total	:	27.9
Score for star read(s)	:	3.9
Score for read counts	:	20.5
Score for mfe	:	2.4
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	52
Mature read count	:	45
Loop read count	:	0
Star read count	:	7

Star **Mature**

```
5'- cauucacaaaacucucagacuuucucagcccaaagggggugagcuggggagaggaggcgagaggcucucccuuccccgcuuccccccuagggguugagggccuggugcccg  -3'   obs
    cauucacaaaacucucagacuuucucagccccaaagggggugagcuggggagaggaggcgagaggcucucccuuccccgcuuccccccuagggguugagggccuggugcccg        exp
    ..............((((...((((((((((..(((((((.((((.(((((.(((((((.....)).)))))))))))))))).))))))..)))))))))).)))).......
```

reads	mm	sample
1	0	seq
1	1	seq
1	0	seq
1	0	seq
1	0	seq
2	0	seq
1	1	seq
1	0	seq
2	1	seq
1	1	seq
1	0	seq
1	1	seq
4	1	seq
1	1	seq
2	1	seq
4	0	seq
3	1	seq
4	1	seq
3	0	seq
14	1	seq
3	1	seq
4	1	seq

```
.....aaacucucagacuuucucagcc.....
.....cucagcccaaagggggugNgcuggggagaggaggcgagagg.....
.....caaagggggugagcuggggagag.....
.....caaagggggugagcuggggagagg.....
.....aaagggggugagcuggggagagg.....
.....aaagggggugagcuggggagagga.....
.....Naggggggugagcuggggagagg.....
.....gggugagcuggggagagg.....
.....ggagaggaggcgagCggc.....
.....ccuuccccgcuuccccccuagU.....
.....ccuuccccgcuuccccccuagg.....
.....cuuccccgcuuccccccuagU.....
.....cuuccccgcuuccccccuagA.....
.....cuuccccgcuuccccccuaggU.....
.....cuuccccgcuuccccccuagggA.....
.....uuccccgcuuccccccuagg.....
.....uuccccgcuuccccccuaggA.....
.....uuccccgcuuccccccuaggU.....
.....uuccccgcuuccccccuagggg.....
.....uuccccgcuuccccccuagggU.....
.....uuccccgcuuccccccuagggAu.....
.....uuccccgcuuccccccuagggUu.....
```

novel-mir-candidate-138

Provisional ID	:	chr7_20008
Score total	:	30.9
Score for star read(s)	:	3.9
Score for read counts	:	27.7
Score for mfe	:	2.2
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	66
Mature read count	:	57
Loop read count	:	0
Star read count	:	9

Star Mature

```
5'- uggauucccgggacccccucacagacgaagccugucucggggcggcuuugggaggaaccgcaccggaggguccccucucgcugccucucagucuggguuucuguggagcgcg  -3'   obs
    uggauucccgggacccccucacagacgaagccugucucggggcggcuuugggaggaaccgcaccggaggguccccucucgcugccucucagucuggguuucuguggagcgcg        exp
    .((....))(((...)))(((((((...((((((.((.(((((((((...(((.((((((........)))))))))...)))))))))..)).).).))))))))))))......
```

	reads	mm	sample
.....cccucacagacgaagccug.....	1	0	seq
.....cucgggggcggcuuugggaggaacc.....	1	0	seq
.....ucgggggcggcuuugggagA.....	1	1	seq
.....cgggggcggcuuugggaggaacc.....	6	0	seq
.....gggggcggcuuugggaggaacc.....	1	0	seq
.....uuccccucucgcugccucu.....	10	0	seq
.....uuccccucucgcugccucuU.....	2	1	seq
.....uuccccucucgcugccucuc.....	1	0	seq
.....uuccccucucgcugccucuA.....	2	1	seq
.....uuccccucucgcugccucucU.....	1	1	seq
.....uuccccucucgcugccucuca.....	3	0	seq
.....uuccccucucgcugccucucag.....	7	0	seq
.....uuccccucucgcugccucucagA.....	4	1	seq
.....uuccccucucgcugccucucagu.....	18	0	seq
.....uuccccucucgcugccucucaguU.....	6	1	seq
.....uuccccucucgcugccucucaguA.....	1	1	seq
.....uccccucucgcugccucucagu.....	1	0	seq
.....ccccucucgcugccucucaguc.....	1	0	seq
.....cucucagucuggguuucuguggagcg..	1	0	seq

novel-mir-candidate-417

Provisional ID	:	chr1_3484
Score total	:	1.3
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.8
Score for randfold	:	-2.2
Score for cons. seed	:	3
Total read count	:	176
Mature read count	:	175
Loop read count	:	1
Star read count	:	0

Star Mature

```
5'- aagcaucacagaugccuaaucuuuacagugcuccggucccggaggggcggggcgagaccgcugagccagccugggcgggcgcggagggaacaggagagagaggagagucc  -3'   exp
    ..(((((...)))))((..(((((....(.(((((..((((...((((((((((....))))...)).))))...))))..)))))).).....)))))..)).......
    ......................................Uccggaggggcggggcgag.......................................................
    ......................................cccggaggggcggggcgagaccgcugagcca...........................................
    ......................................cggaggggcggggcgagaccg.....................................................
    ........................................ggggcggggcgagaccgcugagccagccugggcgggcg...............................
    ..........................................................accgcugagccagccuggg.....................................
    ....................................................................ccugggcgggcgcggagggaa....................
    ....................................................................ccugggcgggcgcggagggaaA...................
    ....................................................................cugggcgggcgcggaggg........................
    ....................................................................cugggcgggcgcgUaggg........................
    ....................................................................cugggcgggcgcggaggga.......................
    ....................................................................cugggcgggcgcggagggG.......................
    ....................................................................cugggcgggcgcggagggaa......................
    ....................................................................Augggcgggcgcggagggaa......................
    ....................................................................cugggcgggcgcUgagggaa......................
    ....................................................................cugggcgggcgcggagggaG......................
    ....................................................................cugggcgAgcgcggagggaa......................
    ....................................................................cugggcgggcgcggagggUa......................
    ....................................................................cugggcgggcgcggagggaaA.....................
    ....................................................................cugggcgggcgcggagggaaGa....................
    ....................................................................cugggcgggcgcggagggaacaggagagagaggagag....
    ......................................................................ugggcgggcgcggagggaaA....................
    ......................................................................ugggcgggcgcggagggaaAa...................
    ..........................................................................gcgcggagggaacaggagagag..........
    ............................................................................gcggagggaacaggagagagagg........
    ..............................................................................acaggagagagaggagag...
```

reads	mm	sample
1	1	seq
1	0	seq
1	0	seq
1	0	seq
1	0	seq
3	0	seq
1	1	seq
19	0	seq
1	1	seq
44	0	seq
2	1	seq
90	0	seq
1	1	seq
2	1	seq
2	1	seq
1	1	seq
1	1	seq
5	1	seq
1	1	seq
1	0	seq
1	1	seq
1	1	seq
1	0	seq
1	0	seq
1	0	seq

novel-mir-candidate-117

Provisional ID	:	chr17_37465
Score total	:	39.5
Score for star read(s)	:	3.9
Score for read counts	:	33.3
Score for mfe	:	1.3
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	77
Mature read count	:	69
Loop read count	:	0
Star read count	:	8

Mature **Star**

```
5'- ggccaagccuugcuauuuaaaguggggguccagggaccggagccugcuagaaaugcaggucccagcucccccgcccccacccaaaucagaaccuguguuucaacaagauucca  -3'   obs
    ggccaagccuugcuauuuaaaguggggguccagggaccggagccugcuagaaaugcaggucccagcucccccgcccccacccaaaucagaaccuguguuucaacaagauucca        exp
    (((...)))............((((((....(((((.((.((((((.......)))))).)).)))).....)))))).........((((.(((......))).).)))..   reads   mm   sample
    ..................aaaguggggguccagggaccggagcc.......................................................................   10      0    seq
    ..................aaaguggggguccagggaccggagccugcu...................................................................   3       0    seq
    ...................aaguggggguccagggaccggagcc........................................................................   12      0    seq
    ....................aguggggguccagggaccggagcc........................................................................   43      0    seq
    ....................aguggggguccagUgaccggagcc........................................................................   1       1    seq
    ..........................uccagggaccggagccugcuaga....................................................................   1       0    seq
    ..........................................................ugcagguccagcucccc.........................................   1       0    seq
    ..........................................................ucccagcucccccgcccccacU....................................   1       1    seq
    ..........................................................ucccagcucccccgcccccacc....................................   2       0    seq
    ..........................................................ucccagcucccccUgcccccacc....................................   4       1    seq
    ..........................................................ucccagcucccccUgcccccaccca..................................   1       1    seq
    ...........................................................................aaaucagaaccuguCuuucaac.........................   1       1    seq
    ...............................................................................ucagaaccuguuucaac.........................   1       0    seq
```

novel-mir-candidate-253

Provisional ID	:	chr5_12590
Score total	:	2.2
Score for star read(s)	:	-1.3
Score for read counts	:	-2.8
Score for mfe	:	1.9
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	6
Mature read count	:	6
Loop read count	:	0
Star read count	:	0

Mature Star

```
5'- ccugagcaggauuuggggcagcagcaggaaacagggcuaggaucuuacaggccugugcaggcucccccagccucaguacggcugcucagggugcucagggacaagguuu  -3'   exp
    (((((((((...(((((((.(.(((..(..(((((.((.(.......))).)))))).)..)))).)...)))))))).....)))))))))((.(....).)).......   reads    mm    sample
    ....................gcagcaggaaacagggcu.............................................................................   6        0     seq
```

novel-mir-candidate-66

Provisional ID	:	chr10_25156
Score total	:	63.7
Score for star read(s)	:	3.9
Score for read counts	:	60.8
Score for mfe	:	1.8
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	131
Mature read count	:	130
Loop read count	:	0
Star read count	:	1

```
                                   Star                      Mature
5'- ccuuuuaauaauaaucucgauaauaaaaacgaucggcgggccgggcaguccguggcggcccuuuccugccucgacuugcucgggcccggcucucccccccgcgaaggggcgccc  -3'   obs
    ccuuuuaauaauaaucucgauaauaaaaacgaucggcgggccgggcaguccguggcggcccuuuccugccucgacuugcucgggcccggcucucccccccgcgaaggggcgccc        exp
    ...............................((..((((((((((((((.(.(((((.......)))))).))))).)))))).))))))).)..)).((((.....)))).....   reads   mm   sample
    ............................aacgaucggcgggccgggcaguccgu.................................................................   1       0    seq
    ................................ucggcgggccgggcaguccguggcg...................................................................   1       0    seq
    ...............................cggcgggccgggcaguccguggcggcccuuuccugccucgacuu...............................................   1       0    seq
    ..............................................................gcccuuuccugccucgacGugcuc...............................   1       1    seq
    ...............................................................uccugccucgacuugcucgg...........................................   1       0    seq
    ...............................................................uccugccucgacuugcucgggcccgg.....................................   1       0    seq
    ................................................................ccucgacuugcucgggcccggU.......................................   1       1    seq
    ................................................................cucgacuugcucgggcccgg.........................................   1       0    seq
    ................................................................cucgacuugcucgggcccggc........................................   1       0    seq
    ................................................................cucgacuugcucgggcccggcuc......................................   9       0    seq
    ................................................................cucgacuugcucgggcccggcucu.....................................   1       0    seq
    ................................................................ucgacuugcucgggcccggA........................................   1       1    seq
    ................................................................ucgacuugcucgggcccggcA.......................................   1       1    seq
    ................................................................ucgacuugcucgggcccggcu.......................................   3       0    seq
    ................................................................ucgacuugcucgggcccggcuA......................................   1       1    seq
    ................................................................Ccgacuugcucgggcccggcuc......................................   1       1    seq
    ................................................................ucgacuugcucgggcccggcuU......................................   2       1    seq
    ................................................................ucgacuugcucgggcccggcuc......................................   19      0    seq
    ................................................................ucgacuugcuAgggcccggcuc......................................   1       1    seq
    ................................................................ucgacuugcucgUgcccggcuc......................................   1       1    seq
    ................................................................ucgacuugcucgggcccggcucu.....................................   48      0    seq
    ................................................................ucgacuugcucgggcccgNcucu.....................................   2       1    seq
    ................................................................ucgacuugcucgUgcccggcucu.....................................   2       1    seq
    ................................................................ucUacuugcucgggcccggcucu.....................................   1       1    seq
    ................................................................ucgacuugcucgggcccggcucA.....................................   2       1    seq
    ................................................................ucgacuugcucgggcccggcucuG....................................   1       1    seq
    ................................................................ucgacuugcucgggcccggcucGc....................................   1       1    seq
    ................................................................ucgacuugcucgggcccggcucuA....................................   4       1    seq
    ................................................................ucgacuugcucgggcccggcucuc....................................   13      0    seq
    ................................................................ucgacuugcucgggcccgCcucuc....................................   1       1    seq
    ................................................................ucgacuugcucgggcccggcucuU....................................   2       1    seq
    ................................................................ucgacuugcucgggcccggcucucU...................................   8       1    seq
    ................................................................cgacuugcucgggcccggcucucc....................................   1       0    seq
```

```
                                   Star                      Mature
ccuuuuaauaauaaucucgauaauaaaaacgaucggcgggccgggcaguccguggcggcccuuuccugccucgacuugcucgggcccggcucucccccccgcgaaggggcgccc
.......................................................................uugcucgggcccggcucuccc................   1       0    seq
```

novel-mir-candidate-430

Provisional ID	:	chr17_36944
Score total	:	1.1
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.4
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	629
Mature read count	:	629
Loop read count	:	0
Star read count	:	0

Mature **Star**

```
5'- gaagacuuuggggugcagcgcccaggggagcccggcgggaggucaaggucuaaagagaagauggcacguggggcuuggggucuguggccugaggagggaccaggagauag  -3'   exp
    .....(((((((.(((((..((((....((((((.((....((((...(((....))))...)))))..))))))))))))..))))))..))))))).................
    ....................cccGggggagcccggcggg.....................................................................
    ....................cccCggggagcccggcggg.....................................................................
    ....................cccaggggagcccggcgggC.....................................................................
    ....................cccCggggagcccggcggga.....................................................................
    ....................cccaggggagcccggcgggCg.....................................................................
    ....................ccCggggagcccggcggg.....................................................................
    ....................ccCggggagcccggcggga.....................................................................
    ....................ccaggggagcccggcgggC.....................................................................
    ....................ccaggggagcccggcgggCg.....................................................................
    ....................ccCggggagcccggcgggag.....................................................................
```

reads	mm	sample
1	1	seq
399	1	seq
20	1	seq
11	1	seq
2	1	seq
190	1	seq
1	1	seq
3	1	seq
1	1	seq
1	1	seq

novel-mir-candidate-350

Provisional ID	:	chr21_43073
Score total	:	1.7
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	81
Mature read count	:	81
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- uuucuggugugagggaagagggaagggaaggacacauugaacgaucccaguggcuugucucauggugaccucucccuugcccuggccuggcucccuggggcccugg  -3'   exp
    .....((.((.((((....((((((((((((.(((..(((((((.((....)).)))).)))..)))).))).))))))))).)))))).))))((((....)))))....   reads   mm   sample
    ..........................................................................ucucccuuUcugcccuggc.....................   1       1    seq
    ..........................................................................ucucccuuccugcccuggc.....................   9       0    seq
    ..........................................................................ucucccuuccugcccuggcA....................   34      1    seq
    ..........................................................................ucucccuuccugcccuggcG....................   2       1    seq
    ..........................................................................ucucccuuccugcccuggAc....................   1       1    seq
    ..........................................................................ucucccuuccugcccuggcAu...................   6       1    seq
    ..........................................................................ucucccuuccugcccuggcUu...................   28      1    seq
```

novel-mir-candidate-134

Provisional ID	:	chr18_39213
Score total	:	32.5
Score for star read(s)	:	3.9
Score for read counts	:	28.7
Score for mfe	:	2.8
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	68
Mature read count	:	67
Loop read count	:	0
Star read count	:	1

Mature Star

```
5'- agccucggcggccgaguucauggccgcccccgcucgcaccgccgcagugcaccgcgguggggugggggacggcccgaacccagcgcggagcgcggcccgccgggcgccgcc  -3'   obs
    agccucggcggccgaguucauggccgcccccgcucgcaccgccgcagugcaccgcgguggggugggggacggcccgaacccagcgcggagcgcggcccgccgggcgccgcc        exp
    .(((.(((((((((.((((..(((((.(((((((((.((((((.((...)).....)))))))).))))))))..)))))..))))..).((((...)))))).))))))))).....  reads   mm   sample
    ..................cauggccgcccccgcucgcaccg.....................................................................  9       0    seq
    ..................cauggccgcccccgcucgcaccgc....................................................................  1       0    seq
    ..................cauggccgcccccgcucgcaccgA....................................................................  4       1    seq
    ..................auggccgcccccgcucgU..........................................................................  1       1    seq
    ..................auggccgcccccgcucgca.........................................................................  1       0    seq
    ..................auggccgcccccgcucgcaccg......................................................................  19      0    seq
    ..................auggccgUccccgcucgcaccg......................................................................  1       1    seq
    ..................auggccgcccccgcucgcaccgcU....................................................................  2       1    seq
    ...................ugAccgcccccgcucgcaccg.......................................................................  1       1    seq
    ...................uggccgcccccgcuUgcaccg.......................................................................  1       1    seq
    ...................uggccgcccccgcucgcaccg.......................................................................  21      0    seq
    ...................uggccgcccccgcucgcaccgA......................................................................  3       1    seq
    ...................uggccgcccccgcucgcaccgG......................................................................  1       1    seq
    ...................uggccgcccccgcucgcaccgcA.....................................................................  1       1    seq
    ...................uggccgcccccgcucgcaccgcU.....................................................................  1       1    seq
    ..........................................guggggugggggacggcccga...................................  1       0    seq
    ...............................................acggcccgaacccagcgcggagcg.......................  1       0    seq
    ..............................................cggcccgaacccagcgcggagcg........................  1       0    seq
    ....................................................................gagcgcggcccgccgggcg.....  1       0    seq
```

novel-mir-candidate-3

Provisional ID	:	chr19_40220
Score total	:	2732.7
Score for star read(s)	:	3.9
Score for read counts	:	2725.7
Score for mfe	:	2.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	5358
Mature read count	:	5356
Loop read count	:	1
Star read count	:	1

Mature **Star**

```
ggcgcgcgcagggauggugggggcgcgcgggucggggcgcgcgggucgggggcggugcuaggaccguggaggggacagggcuggggccaguguguucucugaaggga
.................................gggcgcgcgggucgggU.................................  2   1   seq
.................................gggcgcgcgggucggggCc...............................  12  1   seq
.................................gggcgcgcgggucgggggc................................  2   0   seq
.................................gggcgcgcgggucgggCcg................................  2   1   seq
.................................gggcgcgcgggucgggggcgCg.............................  1   1   seq
.................................gcgcgcgggucgggggcggG...............................  3   1   seq
.................................gcgcgggucgggggcggGgc...............................  1   1   seq
.....................................cgUgggucgggggcggug..............................  7   1   seq
.......................................................Caggaccguggaggggacagg.........  1   1   seq
.......................................................cuggggccaguguguucucu.......  1   1   seq
```

Mature **Star**

```
5'- ggcgcgcgcagggauggugggggcgcgcgggucggggcgcgcgggucgggggcggugcuaggaccguggaggggacagggcuggggccaguguguucucugaaggga  -3'  obs
    ggcgcgcgcagggauggugggggcgcgcgggucggggcgcgcgggucgggggcggugcuaggaccguggaggggacagggcuggggccaguguguucucugaaggga        exp
    .((((((.(............).)))))).....((((((((((((.((((.....((((.(((.(((.(..((......)).)))).)))).)))).)))).))))))))))).....  reads  mm  sample
    ..................ggAgggcgcgcgggucgg.....................................................................  148    1   seq
    ..................ggAgggcgcgcgggucggg....................................................................  191    1   seq
    ..................gUggggcgcgcgggucggg....................................................................  1      1   seq
    ..................ggAgggcgcgcgggucgggg...................................................................  104    1   seq
    ..................gAgggcgcgcgggucggg.....................................................................  1594   1   seq
    ..................gggggcgcgcgggucggg.....................................................................  8      0   seq
    ..................gAgggcgcgcgggucgggg....................................................................  474    1   seq
    ..................gggggcgcgcgggucgggg....................................................................  2      0   seq
    ..................gggggcgcgcgggucggggC...................................................................  4      1   seq
    ..................ggggcgcgcgggucgggg.....................................................................  14     0   seq
    ...................Cgggcgcgcgggucgggg....................................................................  12     1   seq
    ...................ggggcgcgcgggucggggC...................................................................  90     1   seq
    ...................gggcgcgcgggucggggC....................................................................  8472   1   seq
    ...................gggcgcgcgggucggggA....................................................................  2      1   seq
    ...................gggcgcgcgggucggggU....................................................................  2      1   seq
    ...................gggcgcgcgggucggggCc...................................................................  12     1   seq
    ...................gggcgcgcgggucgggggc...................................................................  2      0   seq
    ...................gggcgcgcgggucggggCcg..................................................................  2      1   seq
    ...................gggcgcgcgggucggggCcgcg................................................................  2      1   seq
    .....................gcgcgcgggucgggggGgcg................................................................  1      1   seq
    .....................gcgcgcgggucgggggcgGg................................................................  3      1   seq
    .....................cgcgcgggucgggggGgcg.................................................................  1      1   seq
    ...............................cgUgggcgcgcgggucggg.....................................................  1      1   seq
    ...............................gggggcgcgcgggucggg......................................................  8      0   seq
    ...............................gAgggcgcgcgggucggg......................................................  1594   1   seq
    ...............................gAgggcgcgcgggucgggg.....................................................  474    1   seq
    ...............................gggggcgcgcgggucgggg.....................................................  2      0   seq
    ...............................gggggcgcgcgggucggggC....................................................  4      1   seq
    ................................Cgggcgcgcgggucgggg.....................................................  12     1   seq
    ...............................ggggcgcgcgggucgggg......................................................  14     0   seq
    ...............................ggggcgcgcgggucggggC....................................................  90     1   seq
    ..................................gggcgcgcgggucggggA...................................................  2      1   seq
    ..................................gggcgcgcgggucggggC...................................................  8472   1   seq
```

novel-mir-candidate-357

Provisional ID	:	chr17_36933
Score total	:	1.7
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	26
Mature read count	:	26
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- gagguaacgcagggaggugguaguggccaggugggccuuggugcccugcccuggcccaggcguuccacgcacucugcucccuacccugcaguaacggucaucugugccgcc  -3'   exp
    ........(((((((((.(((((((.(((..((.(((.(((((.(((.......)))))))).)))))..)).).)))))))).)))))).....((((.......)))).. reads     mm        sample
    ......................................................................cacucugcucccuacccugc...................... 1         0         seq
    ......................................................................cacucugcucccuacccugcag.................... 1         0         seq
    ......................................................................cacucugcucccuacccugcaA.................... 1         1         seq
    ......................................................................cacucugcucccuacccugcagA................... 14        1         seq
    ......................................................................cacucugcucccuacccugcagu................... 4         0         seq
    ......................................................................cacucugcucccuacccugcagAa.................. 1         1         seq
    ......................................................................cacucugcucccuacccugcaguU................. 4         1         seq
```

novel-mir-candidate-328

Provisional ID	:	chr19_40623
Score total	:	1.8
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	180
Mature read count	:	178
Loop read count	:	2
Star read count	:	0

Star Mature

```
5'- ugcugggacaaagauggagccugaggugggggugguggagggagaccagcuggcccacugggcccugacccucugcucucccacccgcagucuccagccaaaaacggcu  -3'   exp
    .((((.........(((((.(((.(((((((((.(((((((((....(((..((((((...)))))))).)))))..))))).))))))))..)))).)))))........)))).   reads     mm      sample
    ........................................agaccagcuggcccacug.......................................................   2         0       seq
    ..........................................................acuggguccugacccucugcu.................................   1         0       seq
    ............................................................uccugGcccucugcucuc...............................   1         1       seq
    ..........................................................acccucugcucucccacccgA.....................   1         1       seq
    ............................................................cccucugcucucccacccgc......................   1         0       seq
    ...........................................................ccucugcucucccacccgUa.....................   1         1       seq
    ..........................................................cucugcucucccacccgcagA.....................   1         1       seq
    ............................................................ucugcucucccacccg.........................   1         0       seq
    ............................................................ucugcucucccacccgA........................   1         1       seq
    ............................................................ucugcucucccacccgc........................   5         0       seq
    ............................................................ucugcucucccacccgUa.......................   1         1       seq
    ............................................................ucugcucucccacccgAa.......................   1         1       seq
    ............................................................ucugcucucccacccgca.......................   9         0       seq
    ............................................................ucugcucucccacccgcaA......................   2         1       seq
    ............................................................ucugcucucccacccgcag......................   9         0       seq
    ............................................................ucugcucucccacccgcagA.....................   111       1       seq
    ............................................................ucugcucucccacccgcagu.....................   19        0       seq
    ............................................................ucugcucucccacccgcaguA....................   13        1       seq
    ............................................................ucugcucucccacccgcaguU....................   2         1       seq
    ............................................................ucugcucucccacccgcaguAu...................   2         1       seq
```

novel-mir-candidate-391

Provisional ID	:	chr3_8779
Score total	:	1.4
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.9
Score for randfold	:	-2.2
Score for cons. seed	:	3
Total read count	:	28
Mature read count	:	28
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- caucagagcaggacaucagagagucuggcugcagccaggGCCAGCUGGGAAGGCcaggauuccgcaggcCUGUGCUUGGCAGGGCCCucagggccggcagagugcuu  -3'   exp
    (((((..(((.((((.......)))).)))((.(((((((((.((((((.(((((.((...))...)))))...)))))).)))))))...)))..)).)))))...   reads    mm    sample
    ...........................................................ccugugcuuggcagggcccC..................   2        1     seq
    ...........................................................ccugugcuuggcagggcccCc.................   1        1     seq
    ............................................................cugugcuuggcagggccc...................   13       0     seq
    ...........................................................cugugcuuggcagggcccC..................   2        1     seq
    ............................................................cugugcuuggcagggcccCc.................   4        1     seq
    ............................................................ugugcuuggcagggcccC..................   5        1     seq
    ............................................................ugugcuuggcagggcccCc.................   1        1     seq
```

novel-mir-candidate-204

Provisional ID	:	chr1_2265
Score total	:	5.3
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	43
Mature read count	:	43
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- gagugggaggugggcugccaugGAAGGGCGGGCAGACACUUGGUGUCAUGCCUCGCUCUGAUGCAUUCUCAUGUCUCUGCCUCACCUUCCAGUUCGACAUCAGCGAGGAUGA -3'   exp
    ((((((((((((.(.(((((((((((((((((((...)))))).))))).)))))).......)).)))).)))...).))).)).))))))))).))).)).((((.....)))).
    ................CCAUGGAAGGGCGGGCAGACACU.......................................................................
    ..........................................................CUCUGAUGCAUUCUCAUGUCUCUGCCUCACCUUCCAG....................
    ............................................................................AUUCUCCUGUCUCUGCCU...............................
    ..........................................................................UGUCUCUGCCUCACCUUCCAG....................
    ..........................................................................UGUCUCUGCCUCACCUUCCAGA...................
    ..........................................................................UGUCUCUGCCUCACCUUCCAGU...................
    ..........................................................................UGUCUCUGCCUCACCUUCCAGUU..................
    ..........................................................................UGUCUCUGCCUCACCUUCCAGUA..................
    ..........................................................................UGUCUCUGCCUCACCUUCCAGUUU.................
    ..........................................................................UCUCUGCCUCACCUUCCAGA.....................
    ..........................................................................UCUCUGCCUCACCUUCCAGUU....................
```

reads	mm	sample
1	0	seq
1	0	seq
2	1	seq
2	0	seq
10	1	seq
23	0	seq
1	0	seq
2	1	seq
1	1	seq
1	1	seq
3	0	seq

novel-mir-candidate-124

Provisional ID	:	chr5_13246
Score total	:	36.8
Score for star read(s)	:	3.9
Score for read counts	:	33.3
Score for mfe	:	2.4
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	77
Mature read count	:	74
Loop read count	:	0
Star read count	:	3

Mature **Star**

```
5'- gcccgaggcccuuugcggacuggcuggccgcgcucuucgcacggggcgcuuuugcgugggugcgcgcaggagccgcggagggccggaucgcugagggagcgucagccgcgc  -3'   obs
    gcccgaggcccuuugcggacuggcuggccgcgcucuucgcacggggcgcuuuugcgugggugcgcgcaggagccgcggagggccggauucgcugagggagcgucagccgcgc        exp
    ((..((.(((((((((((.((((((..((((((((((((((((...((((....))))...)).))).))))).))))))..))))))).))))).))))).)).)).)).....  reads   mm   sample
    ...........uuugcggacuggcuggccgcgcucuucgcacgggg.....................................................................  1       0    seq
    ............uugcggacuggcuggccgc...................................................................................  1       0    seq
    ...............cggacuggcuggccgcgcucuucgc..........................................................................  1       0    seq
    ...................cuggcuggccgcgcucuucgc...........................................................................  1       0    seq
    ...................uggcuggccgcgcucuucgc............................................................................  3       0    seq
    ...................uggcuggccgcgcucuucgGa...........................................................................  1       1    seq
    ...................uggcuggccgcgcucuucgca...........................................................................  28      0    seq
    ...................Cggcuggccgcgcucuucgca...........................................................................  2       1    seq
    ...................uggcuggccgcgcucuucgcaG..........................................................................  2       1    seq
    ...................uggcuggccgcgcucuucgcac..........................................................................  4       0    seq
    ...................uggcuggccgcgcucuucgcacg.........................................................................  23      0    seq
    ...................uggcuggccgcgcucuucgcacgU........................................................................  4       1    seq
    ...................uggcuggccgcgcucuucgcacgC........................................................................  1       1    seq
    ...................uggcuggccgcgcucuucgcacgA........................................................................  4       1    seq
    ............................cgcgcucuucgcacgggg.....................................................................  1       0    seq
    ..............................................................cgcaggagccgcggagggccggau.........................  1       0    seq
    ..............................................................cgcaggagccgcggagggccggauU........................  2       1    seq
```

novel-mir-candidate-102

Provisional ID	:	chr9_22505
Score total	:	45.6
Score for star read(s)	:	3.9
Score for read counts	:	38.4
Score for mfe	:	2.3
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	87
Mature read count	:	86
Loop read count	:	0
Star read count	:	1

Star Mature

```
5'- aaggccaggcccaggcccucucccccugcauucccugggguggggugggcugggcccacacccccucccccccccccucccccgggGacugcccgccucacggcgcc  -3'   obs
    aaggccaggcccaggcccucucccccugcauucccugggguggggugggcugggcccacacccccucccccccccccucccccgggGacugcccgccucacggcgcc         exp
    ..((((.......)))).........(((.(((((((((.((((.(((..((((.......))))..)))....)))).)))))))).))).((((....))))...   reads    mm    sample
    ................................ugggguggguUugggcuggg.................................................   1        1     seq
    ............................................................GccccucccccucccccC.............................   1        1     seq
    ............................................................ccccGcccccucccccc..............................   1        1     seq
    ............................................................ccccucccUccucccccucccccggg.....................   1        1     seq
    ..............................................................cccccGucccccucccc.......................   1        1     seq
    ...............................................................Uccucccccucccccggg....................   34       1     seq
    ................................................................Uccucccccucccccgggg...................   17       1     seq
    .................................................................ccucccccucccccgggg...................   33       0     seq
    ...............................................................ccucccccucccccggggG...................   1        1     seq
    ................................................................cucccccucccccggggG...................   1        1     seq
```

novel-mir-candidate-103

Provisional ID	:	chr22_43663
Score total	:	44.2
Score for star read(s)	:	3.9
Score for read counts	:	41.4
Score for mfe	:	1.7
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	93
Mature read count	:	79
Loop read count	:	12
Star read count	:	2

Star **Mature**

```
5'- caggugagcgcuacacggucggggcgggccuaguaggcgcuucaggcuuaggggcggaacagcgcgggcccgcgcgggcguaggcgggguaucuggaggaggcgcaggga  -3'   obs
    caggugagcgcuacacggucggggcggccuaguaggcgcuucaggcuuaggggcggaacagcgcgggcccgcgcgggcguaggcgggguaucuggaggaggcgcaggga        exp
    ((((((..((((..(((.(((..((((.(((.....(((((((..(((....)))..))..)))))))).))))).))).))).))))...))))))..............  reads   mm   sample
    .....gagcgcuacacggucgggg.......................................................................................  1       0    seq
    ......agcgcuacacggucgggg.......................................................................................  1       0    seq
    ................gucggggcgggccuaguaggcgcuucaggc..................................................................  1       0    seq
    ....................gggcgggccuaguaggcg..........................................................................  1       0    seq
    .......................gggccuaguaggcgcuucaggcuuaggggc...........................................................  2       0    seq
    ............................aguaggcgcuucaggcuuaggggcg...........................................................  1       0    seq
    ...................................gcgcuucaggcuuaggggc.........................................................  3       0    seq
    ...................................gcgcuucaggcuuaggggcgg.......................................................  1       0    seq
    ...................................gcgcuucaggcuuaggggcgga......................................................  1       0    seq
    ...................................gcgcuucaggcuuaggggcggaaG....................................................  2       1    seq
    ....................................cgcuucaggcuuaggggc.........................................................  1       0    seq
    ..........................................ucaggcuuaggggcggaaG.....................................................  1       1    seq
    ..............................................................aGagcgcgggccgcgcgggc.............................  1       1    seq
    .............................................................agcgcgggccgcgcgggcguaggcgg.......................  1       0    seq
    ...................................................................ccgcgcgggcguaggcgggguaucuggagg...........  1       0    seq
    ......................................................................cgcgcgggcguaggcgggg.......................  2       0    seq
    ......................................................................cgcgcgggcguaggcggggu......................  11      0    seq
    ......................................................................cgcgcgggcguaUgcggggu......................  1       1    seq
    ......................................................................cgcgcgggcguaUgcggggua.....................  1       1    seq
    ......................................................................cgcgcgggcguaggcggggua.....................  6       0    seq
    ......................................................................cgcgcgggcguaggcgggguau....................  6       0    seq
    ......................................................................cgcgcgggcguaggcgggguauU...................  1       1    seq
    ......................................................................cgcgcgggcguaggcgggguauA...................  1       1    seq
    ......................................................................gcgcgggcguaggcgggg........................  4       0    seq
    ......................................................................gcgcgggcguaggcggggG.......................  1       1    seq
    ......................................................................gcgcgggcguaggcggggu......................  13      0    seq
    ......................................................................gcgcgggcguaggcgggguau....................  17      0    seq
    ......................................................................gcgcgggcguaggcgggguau....................  2       0    seq
    ......................................................................gcgcgggcguaggcgggguaucuggag..............  1       0    seq
    ......................................................................cgcgggcguaggcggggG........................  1       1    seq
    ......................................................................cgcgggcguaggcggggu........................  6       0    seq
    ......................................................................cgcgggcguaggcggggua.......................  2       0    seq
    ......................................................................cgcgggcguaggcgggguauA.....................  1       1    seq
```

Star **Mature**

```
caggugagcgcuacacggucggggcgggccuaguaggcgcuucaggcuuaggggcggaacagcgcgggcccgcgcgggcguaggcgggguaucuggaggaggcgcaggga
.......................................................................gcgggcguaggcgggguau...................  2       0    seq
.......................................................................ggcguaggcgggguaucug...................  1       0    seq
```

novel-mir-candidate-42

Provisional ID	:	chr2_7146
Score total	:	109.2
Score for star read(s)	:	3.9
Score for read counts	:	101.6
Score for mfe	:	2.7
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	211
Mature read count	:	210
Loop read count	:	0
Star read count	:	1

Star **Mature**

```
5'- gcuugauuugucauacugaugcagggcuagauuggggcugacagccccugggcacuccugaugcccgaagugcccaggggcugugagcccccaucuagcacuggcuccu  -3'   obs
    gcuugauuugucauacugaugcagggcuagauuggggcugacagccccugggcacuccugaugcccgaagugcccaggggcugugagcccccaucuagcacuggcuccu        exp
    ..................((..(((.(((((((.(((((((.(((((((((((((((((.(.........).))))))))))))))))).)))))).))))))).))))..))..
    ..................augcagggcuGgauuggggc.......................................................................
    ......................................ugacagccccugggcacuccuga.......................................................
    ......................................ugacagccccugggcacuccugaugcccgaagugcccaUg.......................................
    ...........................................................gaagugcccaggggcugugagU.......................
    ............................................................agugcccaggggcugugagcc....................
    ............................................................gugcccaggggcugugagcc....................
    ............................................................ugcccaggggcugugagU.......................
    ............................................................ugcccaggggcugugagc.......................
    ............................................................ugcccGggggcugugagcc....................
    ............................................................ugcccaggggcugugagcc....................
    ............................................................uUcccaggggcugugagcc....................
    ............................................................ugcccaggggcugugagcU....................
    ............................................................ugcccaggggcugugagcA....................
    ............................................................ugcccaggggcuUugagcc....................
    ............................................................ugcccaggggcugugagccA...................
    ............................................................ugcccaggggcugugagccc....................
    ............................................................ugcccaggggcugugagccU...................
    ............................................................ugcccaggggcugugagcccA..................
    ............................................................ugcccaggggcugugagccccA.................
    ............................................................gcccaggggcugugagcc....................
    ............................................................gcccaggggcugugagccU...................
    ............................................................cccaggggcugugagccc....................
    ...............................................................ugugagcccccaucuagcacug......
```

reads	mm	sample
1	1	seq
1	0	seq
1	1	seq
1	1	seq
2	0	seq
2	0	seq
3	1	seq
13	0	seq
2	1	seq
105	0	seq
3	1	seq
1	1	seq
2	1	seq
4	1	seq
25	1	seq
11	0	seq
27	1	seq
2	1	seq
1	1	seq
5	0	seq
1	1	seq
1	0	seq
1	0	seq

novel-mir-candidate-157

Provisional ID	:	chrX_45572
Score total	:	23
Score for star read(s)	:	3.9
Score for read counts	:	15.9
Score for mfe	:	2.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	43
Mature read count	:	39
Loop read count	:	0
Star read count	:	4

Star **Mature**

```
5'- ucccuucucagauccaagagcauagcccgggaucggggaccaccuccggggcugccuccgguucuugaggcccccggagcggcccugagaccacugucgcccgguuccuuc  -3'   obs
    ucccuucucagauccaagagcauagcccgggaucggggaccaccuccggggcugccuccgguucuugaggcccccggagcggcccugagaccacugucgcccgguuccuuc        exp
    ..........((.((..(.(((((((...(((..((((((((((..(((((((.........)))))).))))))))).))))))))..)).)))).)))))..)).....  reads   mm   sample
    ................................aucggggaccaccuccggggcugcc.................................................  3       0    seq
    ................................ucggggaccaAcuccggggcugccu.................................................  1       1    seq
    ...................................................................gccccccggagcggcccugag.....................  1       0    seq
    ....................................................................cccccccggagcggcccugag....................  1       0    seq
    ....................................................................cccccccggagcggcccugagU...................  3       1    seq
    ...................................................................cccccccggagcggcccugaga....................  22      0    seq
    ....................................................................cccccccggagcggcccugagac..................  2       0    seq
    ....................................................................cccccccggagcggcccugUgac..................  1       1    seq
    ...................................................................cccccccggagcggcccugagU....................  2       1    seq
    ....................................................................cccccccggagcggcccugagA..................  7       1    seq
```

novel-mir-candidate-275

Provisional ID	:	chr16_35990
Score total	:	2
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.3
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	109
Mature read count	:	108
Loop read count	:	0
Star read count	:	1

Star Mature

```
5'- ggcgcguucauccccgcccagccuccuucgcgccagccgcaggcgcccggucccgacugcugcuucggguucaccgggcgaccugcggcccugcccaagcucggggucccc  -3'   obs
    ggcgcguucauccccgcccagccuccuucgcgccagccgcaggcgcccggucccgacugcugcuucggguucaccgggcgaccugcggcccugcccaagcucggggucccc        exp
    ((((((.......................)))))).((((((((((((((((((((.......))))))...)))))))).)))))))...((((.......)))).....
```

reads	mm	sample
1	0	seq
1	1	seq
2	1	seq
1	0	seq
2	1	seq
1	0	seq
1	0	seq
19	0	seq
4	1	seq
4	1	seq
2	1	seq
18	1	seq
5	0	seq
47	1	seq
1	1	seq
1	1	seq
1	0	seq
1	0	seq

```
.............................gccagccgcaggcgcccggucccgac.................................................
...................................cagccgcaggcgcccggucccgaA.................................................
.......................................................ggguucaccgggcgaccugcggccU....................
.......................................................uucaccgggcgaccugcggcc......................
.......................................................uucaccgggcgaccugcggccU....................
.......................................................ucaccgggcgaccugcgg........................
.......................................................ucaccgggcgaccugcggc.......................
.......................................................ucaccgggcgaccugcggcc......................
.......................................................ucaccgggcgaccugcggcA.....................
.......................................................ucaccgggcgaccugcggcU.....................
.......................................................ucaccgggcgaccugcggccG....................
.......................................................ucaccgggcgaccugcggccA....................
.......................................................ucaccgggcgaccugcggccc....................
.......................................................ucaccgggcgaccugcggccU....................
.......................................................ucaccgggcgaccugcggccUu...................
.......................................................ucaccgggcgaccugcggccUug..................
.......................................................ucaccgggcgaccugcggcccug..................
.......................................................caccgggcgaccugcggcc......................
```

novel-mir-candidate-235

Provisional ID	:	chr19_39913
Score total	:	2.4
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.7
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	76
Mature read count	:	74
Loop read count	:	0
Star read count	:	2

Star Mature

```
5'- agccuggggcuccagccugcuccggcugcccgggucggggauggggaggggcguggccggagcgcaaagcccgcccccuccgcgcccccccccggaagccccgccgccg  -3'   obs
    agccuggggcuccagccugcuccggcugcccgggucggggauggggaggggcguggccggagcgcaaagcccgcccccuccgcgcccccccccggaagccccgccgccg        exp
    .((.(((((((.(((((.....))))).(((((..((((.((.(((((((((.(((...........))).)))))))))..)).))))..)))))).)))))))..)).. reads     mm        sample
    ................cuUcuccggcugcccggguc.......................................................................... 1         1         seq
    ................ugcuccggcugcccggguc.......................................................................... 1         0         seq
    ...................................ucggggauggggaggggcguggcU.................................................... 1         1         seq
    ...................................cggggauggggaggggcguggcU.................................................... 1         1         seq
    ......................................................................ccccgccccuccgcgccccccA.................. 1         1         seq
    ......................................................................cccgccccuccgcgcccA...................... 1         1         seq
    ......................................................................cccgccccuccgcgcGcc...................... 1         1         seq
    ......................................................................cccgcGccuccgcgcccc...................... 1         1         seq
    ......................................................................cccgccccuccgcgcccc...................... 2         0         seq
    ......................................................................cccgccccuccgcgcccU...................... 1         1         seq
    ......................................................................cccgccccuccgcgcccccU.................... 1         1         seq
    ......................................................................cccgccccuccgcgcccGcc.................... 1         1         seq
    ......................................................................cccgccccuccgcgccccc..................... 7         0         seq
    ......................................................................cccgccccuccgcgccccA..................... 1         1         seq
    ......................................................................cccgccccuccgcgcccccc.................... 2         0         seq
    ......................................................................cccgccccuccgcgcccccAcc.................. 1         1         seq
    ......................................................................cccgccccuccgcgcccccccA.................. 27        1         seq
    ......................................................................cccgccccuccgcgcccccccU.................. 10        1         seq
    ......................................................................cccgccccuccgcgcccccccc.................. 1         0         seq
    ......................................................................cccgccccuccgcgcccccccG.................. 1         1         seq
    ......................................................................cccgccccuccgcgcccccccU.................. 2         1         seq
    ......................................................................cccgccccuccgcgcccccccA.................. 1         1         seq
    ......................................................................cccgccccuccgcgcccccccGc................. 1         1         seq
    ......................................................................cccgccccuccgcgcccccccAccc................ 1         1         seq
    ..........................................................................cccuccgcCccccccccc................. 1         1         seq
    ..........................................................................ccuccgcCcccccccccc................. 1         1         seq
    ..........................................................................cuccgcgcccccAccccg................. 1         1         seq
    ..........................................................................cuccgcgcccccGccccg................. 6         1         seq
    ..........................................................................cCccgcgcccccccccccgg............... 1         1         seq
    ..........................................................................ccgcgcccccGccccgga................ 2         1         seq
```

novel-mir-candidate-262

Provisional ID	:	chr19_40860
Score total	:	2.1
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.4
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	67
Mature read count	:	62
Loop read count	:	0
Star read count	:	5

Star Mature

```
5'- ugcggggagcgugagggugagguuuggggagcgugggggugagggugggggaggcccgugcuuucccugcugagccuccucccaccccagccggaaaacaucaugcugcug  -3'   obs
    ugcggggagcgugagggugaggguuuggggagcgugggggugagggugggggaggcccgugcuuucccugcugagccuccucccaccccagccggaaaacaucaugcugcug        exp
    ....((.(((((((..((..((((.((((....(((((((.((((((((((((((((....)))))))))))....))))))))))))))))).....)).)))))))..)).   reads   mm   sample
    ................................gugggGUugagggugggg.......................................................   5       1    seq
    ...................................................ggcccgugcuuucccugcugagccuccucccaccccca.....................   1       0    seq
    ......................................................................ccugcugagccuccucccNccccag.....................   1       1    seq
    ......................................................................cugagccuccucccaccccca.....................   2       0    seq
    ......................................................................cugagccuccucccaccccag.....................   8       0    seq
    ......................................................................cugagccuccucccaccccagU....................   24      1    seq
    ......................................................................cugagccuccucccaccccagG....................   1       1    seq
    ......................................................................cugagccuccucccaccccagA....................   26      1    seq
    ......................................................................ugagccucccCcccaccccag.....................   1       1    seq
```

novel-mir-candidate-238

Provisional ID	:	chr1_2544
Score total	:	2.3
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.6
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	468
Mature read count	:	468
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- accucacuccccuggagggccgaggggaggccugggggaggagggggccucagccccagcugcuggggggcuggccugucuccugcccaggcgaggagugcuguuccgagu  -3'   exp
    .((((.(((((((((....)).)))))))(((((((.(((((((((((..(((((..(....)..)))))))))).)))))).)))))))))...(((......)))   reads   mm   sample
    ..........................................................gcuggccugucuccugcc.......................   1       0    seq
    ..........................................................gcuggccugucuccugccc.......................   1       0    seq
    ..........................................................gcuggccugucuccugcccU......................   1       1    seq
    ..........................................................gcuggccugucuccugcccag.....................   17      0    seq
    ..........................................................gcCggccugucuccugcccag.....................   1       1    seq
    ..........................................................gcuggccGgucuccugcccag.....................   1       1    seq
    ..........................................................gcuggccugucuccugcccagU....................   15      1    seq
    ..........................................................gcuggccugucuccugcccagA....................   89      1    seq
    ..........................................................cuggccugucuccugccc........................   2       0    seq
    ..........................................................cuggccugucuccugccca.......................   2       0    seq
    ..........................................................cuggccugucuccugcccaU......................   1       1    seq
    ..........................................................cuggccugucuccugcccaA......................   1       1    seq
    ..........................................................cuggccugucuccugcccag.....................   6       0    seq
    ..........................................................cuggccugucuccugcccagA....................   50      1    seq
    ..........................................................cuggccugucuccugcccaUg....................   1       1    seq
    ..........................................................cuggccugucuccugcccagU....................   271     1    seq
    ..........................................................cuggccugucuccugcccagAc...................   6       1    seq
    ..........................................................cuggccugucuccugcccagUc...................   1       1    seq
    ..........................................................uggccugucuccugcccagA.....................   1       1    seq
```

novel-mir-candidate-379

Provisional ID	:	chr8_20485
Score total	:	1.5
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.8
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	28
Mature read count	:	28
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- cagcaacaggaucugggaauuugucagaaaggcaaguucucagccucaucccagaaccaccaaaucagaaccucggggcuggggcccagcaaccggugcugauucug  -3'   exp
    ......(((((((((((((((((.....)))))))))))))))))(((((((.(((.((.................)).))).))))))).((((.....)))))))))))   reads    mm    sample
    ...................................................................accucggggcuggggccc...................   27       0     seq
    ...................................................................accucggggcuggggccA...................   1        1     seq
```

novel-mir-candidate-393

Provisional ID	:	chr2_8276
Score total	:	1.5
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.8
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	41
Mature read count	:	38
Loop read count	:	0
Star read count	:	3

Star Mature

```
5'- uuuccagauagaugccccuugguaggugcccugacucaaggugcccaggccuccuccuccuccuccauagcaggaaggaagcugggcaccagaccaagaacugggaugggcca  -3'   obs
    uuuccagauagaugccccuugguaggugcccugacucaggugcccaggccuccuccuccuccuccauagcaggaaggaagcugggcaccagaccaagaacugggaugggcca        exp
    .((((((...((((((((((....)))).)....)))))..((((((((((.(.((((..((((.((....)).)))))))).))))))))))..........)))))).......  reads   mm   sample
    ..............................................gccuUcuccuccuccucc.............................................  1       1    seq
    ..............................................gccGccuccuccuccucc.............................................  1       1    seq
    ..............................................gccuccucUuccuccucca.............................................  1       1    seq
    ...............................................................cauagcaggaaggaagcugggcaccaga....................  1       0    seq
    ................................................................caggaaggaagcugggcacc.......................  1       0    seq
    ................................................................caNgaaggaagcugggcaccag.....................  1       1    seq
    ................................................................caggaaggaagcugggcaccag.....................  4       0    seq
    ................................................................caggaaggaagcugggcaccagU....................  1       1    seq
    ................................................................caggaaggaagcugggcaccagC....................  1       1    seq
    ................................................................caggaaggaagcugggcaccaga....................  25      0    seq
    ................................................................caggaaggaagcugggcaccagaU...................  1       1    seq
    ................................................................caggaaggaagcugggcaccagaA...................  2       1    seq
    ................................................................caggaaggaagcugggcaccagaAc..................  1       1    seq
    .................................................................gaaggaagcugggcaccaga......................  1       0    seq
    ...........................................................................................accaagaacugggaugggc..  1       0    seq
```

novel-mir-candidate-277

Provisional ID	:	chr16_34532
Score total	:	2
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.3
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	23
Mature read count	:	22
Loop read count	:	1
Star read count	:	0

Mature **Star**

```
5'- cuguaggccuuuucuugugcuuccccaguggcugagccugggcuggggcugccugggaggaauccuccaggagccccaggucccccaaggaggucuugggagggcaccc  -3'   exp
    ................((((((.(((((.((((...(((((((((((((((.(((((.(((...)))))))))))))))...)))).)))).)))))))))).))))))..   reads    mm    sample
    ...................cuuccccaguggcugagc.......................................................................   1        0     seq
    ...................cuuccccaguggcugagcc......................................................................   2        0     seq
    ....................uuccccaguggcugagcc......................................................................   19       0     seq
    ....................................gccugggcuggggcugccGgg...................................................   1        1     seq
    ........................................gcugUggcugccugggagg..................................................   1        1     seq
```

novel-mir-candidate-288

Provisional ID	:	chr2_7174
Score total	:	2
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.3
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	51
Mature read count	:	51
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- gcccuccggcggagaguccuaggagcgcuggucucagaggggcgggggcgggaggacgcccagugucucccggugaggcgggggggggguccucugggggaagggg  -3'   exp
    .(((((((.(((((((.(((((.....(.((.(((((((..(((((((.(((((.....)))))..)))..)))..)))))))..)).)))))))..)))))))..)))).   reads    mm    sample
    ........................................ggggcggCggcgggagga.................................................   1        1     seq
    ........................................ggcgggggcgggaggGcgc.................................................   1        1     seq
    ....................................................................Gcccggugaggcgggggg......................   1        1     seq
    ....................................................................Gcccggugaggcgggggg......................   5        1     seq
    ....................................................................Acccggugaggcgggggggg....................   1        1     seq
    ....................................................................cccggugaggcggggggC.....................   1        1     seq
    ....................................................................Uccggugaggcgggggg......................   1        1     seq
    ....................................................................cccggugaggcgggggg......................   38       0     seq
    ....................................................................cccggugaggcgggggggg....................   1        0     seq
    ....................................................................cccggugaggcgggggggA...................   1        1     seq
    ....................................................................cccggugaggcgggggggCgg..................   1        1     seq
    ....................................................................ccggugaggcgggggggCg...................   1        1     seq
```

novel-mir-candidate-343

Provisional ID	:	chr7_18133
Score total	:	1.8
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	32
Mature read count	:	32
Loop read count	:	0
Star read count	:	0

Star **Mature**

```
5'- ccuagggccagaggcaggcaggggaacuccaggagagcugccucaggaagcacugcaguccuccggcccuuccuccccugccuggcccacuucagagcauucucuucca  -3'   exp
    ....((((((..((((((..((((((..((.((((.(((((...((......)))))))).))))))...)))))).)))))))))))).....((((....)))).....
```

reads	mm	sample
3	0	seq
2	1	seq
1	0	seq
5	1	seq
1	1	seq
2	1	seq
17	1	seq
1	1	seq

```
    ....uccucccugccuggccc.....................
    ....uccucccugccuggcccU....................
    ....uccucccugccuggccca....................
    ....uccucccugccuggcccaA...................
    ....uccucccugccuggcccaAu..................
    ....uccucccugccuggcccaUu..................
    ....uccucccugccuggcccaGuu.................
    ....uccucccugccuggcccaUuu.................
```

novel-mir-candidate-370

Provisional ID	:	chr4_10960
Score total	:	1.6
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.9
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	15
Mature read count	:	15
Loop read count	:	0
Star read count	:	0

Mature Star

```
5'- gcucacugcacuccaccaggcggcgggcacuggggcccuggaccagccuccagcugaaccccaugcccagccuucCggggacacagccugcaccugcucaccagcaac  -3'   exp
    ((...(((...(((.(((.(((((((((.(((((..(((((.....)))))).....)))))))))).))).)).)))))..)))...))...((((....)))).. reads     mm        sample
    ....................cggcgggcacuggggccc.......................................................................  15        0         seq
```

novel-mir-candidate-358

Provisional ID	:	chr11_26482
Score total	:	1.7
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	18
Mature read count	:	18
Loop read count	:	0
Star read count	:	0

Mature Star

```
5'- agaugccaugaaaccccuucucucuguguggguucugaggugggggagcgagaauggggcaaggggaggcagugacugccuggcaucgagcucuuuggggcugucauca  -3'   exp
    .((((((......((((((.((((..(.(.(((((.......)))))).).)..)))).)))))))((((((...)))))))))))).((((((...)))))).......   reads    mm    sample
    ...................cucucuguguggguucugagA.......................................................................   2        1     seq
    ...................Aucucuguguggguucugagg.......................................................................   1        1     seq
    ....................ucucuguguggguucugag........................................................................   15       0     seq
    ..........................................................................aucgagcucuuuggggc........................   1        0     seq
```

novel-mir-candidate-114

Provisional ID	:	chr19_39716
Score total	:	41.6
Score for star read(s)	:	3.9
Score for read counts	:	34.3
Score for mfe	:	2.4
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	79
Mature read count	:	72
Loop read count	:	0
Star read count	:	7

```
                    Mature                 Star
5'- gcacgcaccugcgcacgagccaucucccgccuccuuuucccgccgacugagagggcggggaaagggccgggaagggcgcaugcgcaguggcagcgacuaagguuuagugaggcg  -3'    obs
    gcacgcaccugcgcacgagccaucucccgccuccuuuucccgccgacugagagggcggggaaagggccgggaagggcgcaugcgcaguggcagcgacuaagguuuagugaggcg         exp
    ((..((..(((((((.(.(((...(((((.(.(((((((((((((.........)))))))))))))..))))..))).).)))))))..)).)).(((((...)))))......  reads      mm         sample
    ....................caucucccgccuccuuuucccg.....................................................................  4          0          seq
    ....................caucucccgccuccuuuucccU.....................................................................  1          1          seq
    ....................caucucccgccuccuuuucccgU....................................................................  1          1          seq
    ....................caucucccgccuccuuuucccgc....................................................................  2          0          seq
    ....................caucucccgccuccuuuucccgA....................................................................  3          1          seq
    ....................caucucccgccuccuuuucccgcc...................................................................  18         0          seq
    ....................caucucccgccuccuuuuNccgcc...................................................................  1          1          seq
    ....................caucucccgccuccuuuucccgccU..................................................................  10         1          seq
    ....................aucucccgccuccuuuucccg......................................................................  4          0          seq
    ....................aucucccgccuccuuuucccgU.....................................................................  3          1          seq
    ....................aucucccgccuccuuuucccgA.....................................................................  5          1          seq
    ....................aucucccgccuccuuuucccgc......................................................................  2          0          seq
    ....................aucucccgccuccuuuucccgcc.....................................................................  9          0          seq
    ....................aucucccgccuccuuuucccgcA.....................................................................  1          1          seq
    ....................aucucccgccuccuuuucccgccU....................................................................  5          1          seq
    ....................aucucccgccuccuuuucccgccA....................................................................  2          1          seq
    ....................ucucccgccuccuuuucccg......................................................................  1          0          seq
    ......................................................cggggaaagggccgggaagggc.................................  5          0          seq
    ......................................................cUgggaaagggccgggaagggc.................................  1          1          seq
    ......................................................cggggaaagggccgggaagggcA................................  1          1          seq
```

novel-mir-candidate-315

Provisional ID	:	chr1_4094
Score total	:	1.9
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	163
Mature read count	:	162
Loop read count	:	0
Star read count	:	1

Star Mature

```
5'- guccaucccaccagguugguuaucagcauuucccggggagcugccugggcaggggugGcuggccggcucccagccucugcagcucccccggcccccuugucucuugcuccugu -3'   obs
    guccaucccaccagguugguuaucagcauuucccggggagcugccugggcaggggugGcuggccggcucccagccucugcagcucccccggcccccuugucucuugcuccugu        exp
    ...........((((..(((.....(((.....((((((((((((..((((..(((.((((....)))))))).))))..)))))))))))).......)))).....)))))))..  reads     mm      sample
    ......................................gcugccugggGaggggug.......................................................  1         1       seq
    ............................................................uggccggcucccagccucugc...............................  1         0       seq
    ...........................................................ccggcucccagccucugcagcucccccggcc.....................  2         0       seq
    ..............................................................cagccucugcaAcucccc.......................  1         1       seq
    ..............................................................cagccucugcagcucccccgg....................  3         0       seq
    ..............................................................cagccucugcagcucccccggc...................  23        0       seq
    ..............................................................cagccucugcagcucccccggU...................  2         1       seq
    ..............................................................cagccucugcagcucccccAgc...................  1         1       seq
    ..............................................................Gagccucugcagcucccccggc...................  1         1       seq
    ..............................................................cagccGcugcagcucccccggcc..................  1         1       seq
    ..............................................................cagccucugcagcucccccggcA..................  3         1       seq
    ..............................................................cagccucugcagcucccccggcc..................  41        0       seq
    ..............................................................cagccucugcagcucccccggccU.................  12        1       seq
    ..............................................................cagccucugcagcucccccggccc.................  25        0       seq
    ..............................................................cagccucugcagcucccccNgccc.................  1         1       seq
    ..............................................................cagccucugcagcucccccggcccA................  1         1       seq
    ..............................................................cagccucugcagcucccccggcccU................  5         1       seq
    ..............................................................cagccucugcagcucccccggcccc................  8         0       seq
    ..............................................................cagccucugcagcucccccggccccU...............  3         1       seq
    ..............................................................cagccucugcagcucccccggccccA...............  1         1       seq
    ..............................................................cagccucugcagcucccccggcccUc...............  1         1       seq
    ..............................................................agccucugcagcucccccggc....................  6         0       seq
    ..............................................................agccucugcagcucccccggcc...................  7         0       seq
    ..............................................................agccucugcagcucccccggccA..................  2         1       seq
    ..............................................................agccucugcagcucccccggccc..................  7         0       seq
    ..............................................................agccucugcagcucccccggcccU................  2         1       seq
    ..............................................................agccucugcagcucccccggcccc................  4         0       seq
    ..............................................................agccucugcagcucccccggccccc...............  1         0       seq
```

novel-mir-candidate-366

Provisional ID	:	chrX_44958
Score total	:	1.6
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.9
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	563
Mature read count	:	562
Loop read count	:	0
Star read count	:	1

Mature **Star**

```
5'- ucccuccuuccccuccucucucccuccccucccgcgcgcccccgcuuugugucccgugggucucccgcgcgggacggagggacuggccggagcuggcgcuuucucagc  -3'   obs
    ucccuccuuccccuccucucucccuccccucccgcgcgcccccgcuuugugucccgugggucucccgcgcgggacggagggacuggccggagcuggcgcuuucucagc         exp
    ............((..((((..((..((((((((((((((..((((.........))))).....)))))))))).)))))))...))..))))..)).(((.....)))   reads    mm    sample
    .............cucUucucuccuccccuc.......................................................................   2        1     seq
    ...................Acucccuccccuccucccgcgc.............................................................   1        1     seq
    ....................cuccuccccuccucccgc................................................................   21       0     seq
    ....................cuccuccccuccucccgcC...............................................................   47       1     seq
    ....................cuccuccccuccucccgcCc..............................................................   60       1     seq
    ....................uccuccccuccucccgcC................................................................   101      1     seq
    ....................uccuccccuccucccgcCc...............................................................   332      1     seq
    ..............................................................cccgcgcgggacggagggacuggccggagcu.............   1        0     seq
    ...............................................................cgcgcgggacggagggacuggc.....................   2        0     seq
    ....................................................................acggagggacuggccggagcu.............   1        0     seq
```

novel-mir-candidate-185

Provisional ID	:	chr10_23727
Score total	:	11.1
Score for star read(s)	:	3.9
Score for read counts	:	3.7
Score for mfe	:	2.5
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	19
Mature read count	:	18
Loop read count	:	0
Star read count	:	1

Star Mature

```
5'- ccgcggugucacugcgaugccgaggcgaauggggugggggaagcgcccgcggggcggggagggacccugcaggcgcggacuccacacccagccucuggccagcgucacucg  -3'   obs
    ccgcggugucacugcgaugccgaggcgaaugggguggggggaagcgcccgcgggcggggagggacccugcaggcgcggacuccacacccagccucuggccagcgucacucg        exp
    .((.(((((.(.(((....(((((((((...((((((((((....(((((.(((((((.......).)))))).)))))...)))))).))))))))).))))))).).))))))   reads   mm   sample
    ............................augggguggguUggaagcg.......................................................................   1       1    seq
    ...............................................................gagggaUccugcaggcgcg.................................   1       1    seq
    ..............................................................ugcaggcgcggacuccacacU.......................   1       1    seq
    ..............................................................ugcaggcgcggacuccacacc........................   1       0    seq
    ...............................................................caggcgcggacuccacaccca......................   2       0    seq
    ...............................................................caggcgcggacuccacacccag.....................   3       0    seq
    ...............................................................caggcgcggacuccacacccagU....................   3       1    seq
    ...............................................................caggcgcggacuccacacccagc....................   2       0    seq
    ...............................................................caggcgcggacuccacacccagA....................   5       1    seq
    ...............................................................caggcgcggacuccacacccagcU...................   1       1    seq
```

novel-mir-candidate-256

Provisional ID	:	chr11_27962
Score total	:	2.2
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.7
Score for randfold	:	-2.2
Score for cons. seed	:	3
Total read count	:	140
Mature read count	:	139
Loop read count	:	1
Star read count	:	0

Star Mature

```
5'- uccccgggagcgcgccgcagccgcgcgggccccacgccgcccucccccaggcugcgaggcagagcuggcugggggcggcggcgggggaggggaggggcggggaaggggg  -3'   exp
    .((((.....(.((((.(..((.......((((.(((((((.(((((((.(.((.........)).).)))))))).))))))))))..))..).)))).)...)))).   reads    mm       sample
    ........agcgcgccgcagccgcgcg.......................................................................................   1        0        seq
    ........agcgcgccgcagccgGgcg.......................................................................................   1        1        seq
    ........gcgcgccgcagccgGgcg........................................................................................   1        1        seq
    ...................................................gcgaggcagagcAggcug..............................................   1        1        seq
    ......................................................................cuggcuggUggcggcggc...........................   1        1        seq
    ......................................................................uggggcggcggcgggggg...........................   43       0        seq
    ......................................................................uggAggcggcggcgggggg...........................   1        1        seq
    ......................................................................ugggggcggcggcggggGg..........................   61       1        seq
    ......................................................................ugggggcggcggcgggggC..........................   2        1        seq
    ......................................................................ugggggcggcggcggggGg..........................   3        1        seq
    ......................................................................ugggggcggcggcggggGg..........................   1        1        seq
    .....................................................................gggggcggcggGgggggga...........................   1        1        seq
    .....................................................................gggggcggcggcgggggC............................   14       1        seq
    .....................................................................gggggcggcggcgggggUg...........................   1        1        seq
    .....................................................................ggCggcggcggcgggggag...........................   1        1        seq
    .....................................................................gggggcggcggcgggggCg...........................   3        1        seq
    .....................................................................ggggcggcggcgggggUg...........................   3        1        seq
    .....................................................................gCggcggcggcgggggag...........................   1        1        seq
    ......................................................................ggcggcggcCggggaggg...........................   1        1        seq
    ......................................................................gcggcggcgggggUggggg..........................   2        1        seq
    ......................................................................gcggcggcgCgggaggggag.........................   1        1        seq
    ......................................................................cggcggcgggggaggggG...........................   1        1        seq
    ......................................................................cggcggcggAggaggggag.........................   1        1        seq
    ......................................................................Cgcggcgggggaggggag..........................   1        1        seq
    ......................................................................cggcgggggaggggCggg..........................   1        1        seq
    ...........................................................................................gCggggcggggaagggggg    1        1        seq
```

novel-mir-candidate-284

Provisional ID	:	chr11_27476
Score total	:	2
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.3
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	128
Mature read count	:	127
Loop read count	:	1
Star read count	:	0

Star Mature

```
5'- agagggcaugugccugguaagccaaggagcuggggcauuggggcaggcagugccguuggcugaugcugucucccccggcgccucucugccaggcauucgugccuccccuagcc  -3'    exp
...(((((((((((..((...(((.(((((((....(((((((.((..(((...)))...)))))))))))))))))).)))..))..))))))..))))))).........  reads      mm         sample
....ggcaugugccuguaaUcc.......................................................................................  1          1          seq
.............................uggggcauuggggcaggcagu...........................................................  1          0          seq
...........................................gugccguuggcugaugcugucuccc.........................................  1          0          seq
...............................................uuggcugaugcugucuccccgg.............................................  1          0          seq
...............................................uuggcugaugcugucuccccggcgc..........................................  2          0          seq
.................................................................ugucuccccggcgccucucuU.......................  1          1          seq
...............................................ucuccccggcgccucucug.................................................  2          0          seq
.................................................................ucuccccggcgccucucugU.......................  1          1          seq
.................................................................ucuccccggcgccucucugA.......................  7          1          seq
...............................................ucuccccggcgccucucugc................................................  3          0          seq
.................................................................ucuccccggcgccucucugcc......................  8          0          seq
.................................................................ucuccccggcgccucucugcAa.....................  1          1          seq
...............................................ucuccccggcgccucucugcca..............................................  6          0          seq
.................................................................ucuccccggcgccucucugccag....................  3          0          seq
.................................................................ucuccccggcgccucucugccagA...................  7          1          seq
...............................................ucuccccggcgccucucugccagU............................................  23         1          seq
..............................................cuccccggcgccucucugccagU.............................................  2          1          seq
.................................................................uccccggcgccucucugA.........................  3          1          seq
...............................................uccccggcgccucucugc.................................................  2          0          seq
.................................................................uccccggcgccucucugccag......................  4          0          seq
.................................................................uccccggcgccucucugccagC.....................  2          1          seq
...............................................uccccggcgccucucugccagA.............................................  27         1          seq
.................................................................uccccggcgccucucugccagU.....................  20         1          seq
..............................................cccccggcgccucucugccagA.............................................  3          1          seq
...........................................cccccggcgccucucugccaggcauucg.......................................  1          0          seq
..............................................cccccggcgccucucugccagU.............................................  1          1          seq
..............................................cccccggcgccucucugccagA.............................................  2          1          seq
.....................................................ucucugccaggcauucgugccuccc...............................  1          0          seq
```

novel-mir-candidate-16

Provisional ID	:	chr16_35659
Score total	:	277.3
Score for star read(s)	:	3.9
Score for read counts	:	269.3
Score for mfe	:	3.1
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	540
Mature read count	:	354
Loop read count	:	2
Star read count	:	184

```
                 Mature                   Star
5'- gaggccgggagcggggaggcggcggcuccagggaccuggcgggccgccgaucggggcugcgagggccccauggcgccgcccccagccccgcuccuggcgccgaggcccgggga  -3'   obs
    gaggccgggagcggggaggcggcggcuccagggaccuggcgggccgccgaucggggcugcgagggccccauggcgccgccccccagccccgcuccuggcgccgaggcccgggga        exp
    ...((((((((((((.((.((((((.((((((.(((.((((((.((....)))))))).)))).)))).)))).)))))).))..))))))))))))))).(((.....)))...  reads   mm   sample
    ........gaUcggggaggcggcggc.....................................................................................  1       1    seq
    ........gagcggggaggcggcggcu....................................................................................  1       0    seq
    .........agcggggaggcggcggcu...................................................................................  1       0    seq
    ...............gaggcggcggcuccagggac............................................................................  1       0    seq
    ..................cggcggcuccagggaccug..........................................................................  10      0    seq
    ..................cggcggcuccagggaccugU.........................................................................  1       1    seq
    ..................cggcggcuccagggaccugA.........................................................................  6       1    seq
    ..................cggcggcuccagggaccuggc........................................................................  17      0    seq
    ..................cggcggcuccagggaccuNgc........................................................................  1       1    seq
    ..................cggcggcuccagggaccuAgc........................................................................  1       1    seq
    ..................cggcggcuccagggaccuggU........................................................................  1       1    seq
    ..................cggcggcuccagggaccuggcU.......................................................................  10      1    seq
    ..................cggcggcuGcagggaccuggcg.......................................................................  1       1    seq
    ..................cggcggcuccagggaccAggcg.......................................................................  1       1    seq
    ..................cggcggcuccagUgaccuggcg.......................................................................  1       1    seq
    ..................cggcggcuccagggaccuNgcg.......................................................................  2       1    seq
    ..................cggcggcuccagggaccuggcg.......................................................................  124     0    seq
    ..................cggcggcuccagggaccuggcA.......................................................................  6       1    seq
    ..................cggcggcuccagggaccuggcgg......................................................................  1       0    seq
    ..................cggcggcuccagggaccuggcgA......................................................................  17      1    seq
    ..................cggcggcuccagggaccuggcgU......................................................................  95      1    seq
    ..................cggcggcuccagggaccuggcggc.....................................................................  2       0    seq
    ..................cggcggcuccagggaccuggcggccgccgaucggggcug......................................................  1       0    seq
    ..................ggcggcuccagggaccug...........................................................................  1       0    seq
    ..................ggcggcuccagggaccuAg..........................................................................  1       1    seq
    ..................ggcggcuccagggaccugA..........................................................................  1       1    seq
    ..................ggcggcuccagggaccuggcg........................................................................  22      0    seq
    ..................gUcggcuccagggaccuggcg........................................................................  1       1    seq
    ..................ggcggcuccagggaccugNcg........................................................................  1       1    seq
    ..................ggcggcuccagggaccuggcU........................................................................  1       1    seq
    ..................ggcggcuccagggaccuggcA........................................................................  2       1    seq
    ..................ggcggcuccagggaccuggcgA.......................................................................  5       1    seq
    ..................ggcggcuccagggaccuggcgU.......................................................................  13      1    seq
```

```
                 Mature                   Star
gaggccgggagcggggaggcggcggcuccagggaccuggcgggccgccgaucggggcugcgagggccccauggcgccgcccccagccccgcuccuggcgccgaggcccgggga
...................ggcggcuccagggaccuggcggccgccgaucggggcugcgagggcccca.......................................  1       0    seq
...................gcggcuccagggaccuggcgA.......................................................................  1       1    seq
...................gcggcuccagggaccuggcggc......................................................................  1       0    seq
...................gcggcuccagggaccuggcggccgccgaucggggc.........................................................  1       0    seq
...................gcggcuccagggaccuggcggccgccgaucggggcu........................................................  1       0    seq
....................cggcuccagggaccuggcggc......................................................................  2       0    seq
....................cggcuccagggaccuggcggc......................................................................  3       0    seq
.......................uccagggaUcuggcggcc.......................................................................  2       1    seq
...........................gaccuggcggccgccgau...................................................................  3       0    seq
...........................gaccuggcggccgccgauU..................................................................  1       1    seq
...........................gaccuggcggccgccgaucggggcugc..........................................................  1       0    seq
...........................gaccuggcggccgccgaucggggcugcg.........................................................  1       0    seq
...........................gaccuggcggccgccgaucggggcugcgaggccccaug...............................................  1       0    seq
.................................uggcggccgccgaucggggcugc.........................................................  1       0    seq
...................................ggcggccgccgaucggggcugc........................................................  1       0    seq
....................................cggccgccgaucggggcugc.........................................................  1       0    seq
.....................................gccgccgaucggggcugc..........................................................  1       0    seq
.......................................ccgaucggggcugcgaggccccauggcgccgccccc.......................................  1       0    seq
.............................................ucggggcugcgaggccccauggcgccgccccG...................................  1       1    seq
...................................................cgaggccccauggcgccg.........................................  5       0    seq
...................................................cgaggccccauggcgccgA........................................  1       1    seq
...................................................cUaggccccauggcgccgcc.......................................  1       1    seq
...................................................cgaggccccauggcgccgcU.......................................  1       1    seq
...................................................cgaggccccauggcgccgcc.......................................  78      0    seq
...................................................cgaggccccauggcgccgccU......................................  49      1    seq
...................................................cgaggccccauggcgccgccA......................................  4       1    seq
...................................................cgaggccccauggcgccgccc......................................  12      0    seq
...................................................cgaggcGccauggcgccgccc......................................  1       1    seq
...................................................cgaggccccaugUcgccgccc......................................  1       1    seq
...................................................cgaggccccauggcgccgcccc.....................................  3       0    seq
...................................................cgaggccccauggcgccgcccU.....................................  7       1    seq
...................................................cgaggccccauggcgccgccccc....................................  4       0    seq
...................................................cgaggccccauggcgccgccccU....................................  13      1    seq
...................................................cgaggccccauggcgccgccccAa...................................  1       1    seq
...................................................cgaggccccauggcgccgccccca...................................  1       0    seq
...................................................cgaggccccauggcgccgcccccU...................................  1       1    seq
...................................................cgaggccccauggcgccgccccccaA.................................  1       1    seq
.......................................................cccagccccgcuccuggcgccg.....................................  1       0    seq
```

novel-mir-candidate-291

Provisional ID	:	chr19_41510
Score total	:	1.9
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	22
Mature read count	:	22
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- cucccuccuggccaggcggcacaccccacuuaucucagggcgcaggcaggcgcgggccgccgccugaccugcgccugaccugcccugacccccucccuucuuggcccccua  -3'   exp
    .........(((((((.((.....)))).......(((((((.(((((((((((((((.((.....)).)))))))))).))))))))))))).....))))).....   reads     mm        sample
    ..............................................................ugcgccugaccugcuccugacU....................   11        1         seq
    ..............................................................ugcgccugaccugcuccugacc....................   8         0         seq
    ..............................................................ugcgccugaccugcuccugacA....................   3         1         seq
```

novel-mir-candidate-242

Provisional ID	:	chr12_29007
Score total	:	2.3
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.6
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	230
Mature read count	:	230
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- gcgucaagaucggucagcccgcgggcaggcaggcgggcccggcggggaggggcuccggggccggcgccggguccugacgcuucucucccgcagcugacuucggcuucgcgcg  -3'   exp
    ((((.(((.(((((((((...(((((..(....)..)))))(((((((((((..(((((((((....)))))))))..)))))))).)))))).))))))..)))))).)))).   reads    mm    sample
    ....................gcgggcagCcaggcgggc.......................................................................   1        1     seq
    .......................................ccggcggggaggggcuccggggccggcgccggguccugac...................................   1        0     seq
    .......................................cggcggggaggggcuccggggc.....................................................   1        0     seq
    .......................................cggcggggaggggcuccggggcc....................................................   1        0     seq
    .......................................cggcggggaggggcuccggggccggcgccggu...........................................   1        0     seq
    ...............................................................cggcgccgguccugacgcuucucucccgcagA..................   1        1     seq
    ................................................................cgccgguccugacgcuucucucccgcag.....................   1        0     seq
    .................................................................gccgguccugacgcuucucucccgcag......................   1        0     seq
    ..................................................................cgguccugacgcuucucucccgcagA.......................   1        1     seq
    ......................................................................uccugacgcuucucucccc...........................   1        0     seq
    .......................................................................uccugacgcuucucucccg..........................   1        0     seq
    .......................................................................uccugacgcuucucucccgA.........................   1        1     seq
    ........................................................................Gccugacgcuucucucccgca.......................   1        1     seq
    .......................................................................uccugacgUuucucucccgca........................   2        1     seq
    .......................................................................uccugacgcuucucucccgca........................   61       0     seq
    .......................................................................uccugacgcuucucucccgcag.......................   22       0     seq
    .......................................................................uccugacgcuucucucccgcagU......................   54       1     seq
    .......................................................................uccugacgcuucucucccgcagc......................   2        0     seq
    .......................................................................uccugacgcuucucucccgcagA......................   58       1     seq
    .......................................................................uccugacgcuucucucccgcagUu.....................   8        1     seq
    .......................................................................ccugacgcuucucucccgcagA......................   9        1     seq
    .......................................................................ccugacgcuucucucccgcagU......................   9        1     seq
    .......................................................................ccugacgcuucucucccgcagUu.....................   1        1     seq
```

novel-mir-candidate-9

Provisional ID	:	chr3_9971
Score total	:	3159.5
Score for star read(s)	:	3.9
Score for read counts	:	3171.7
Score for mfe	:	-13.3
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	6233
Mature read count	:	6231
Loop read count	:	0
Star read count	:	2

```
                                   Mature                                   Star
uuuuaaaaaaguaauauauucucccagcaccuccaccaaaaauaaaaacuaaaaaguuauuaauuuaucacaguguuucugagggcuggacaaaggcucauuuauguu
....................uccccagAaccuccaccaaaa.......................................................  1     1     seq
....................uccccagUaccuccaccaaaa.......................................................  13    1     seq
....................uccccagcaccuccaccaUaa.......................................................  1     1     seq
....................uccccUgcaccuccaccaaaa.......................................................  1     1     seq
....................uccccagcaccuccaccaaaU.......................................................  1     1     seq
....................uccccGgcaccuccaccaaaa.......................................................  417   1     seq
....................uccccGgcaccuccaccaaaaa......................................................  92    1     seq
....................uccccagUaccuccaccaaaaa......................................................  1     1     seq
....................uccccGgcaccuccaccaaaaau.....................................................  4     1     seq
....................ccccGgcaccuccaccaa..........................................................  42    1     seq
....................ccccGgcaccuccaccaaa.........................................................  5     1     seq
....................ccccGgcaccuccaccaaaa........................................................  8     1     seq
....................ccccGgcaccuccaccaaaaa.......................................................  1     1     seq
....................cccGgcaccuccaccaaa..........................................................  1     1     seq
.......................................................uuCaucacaguguuucug.......................  1     1     seq
.........................................................aguguuucugagggcuggacaaaggcuc...........  1     0     seq
..........................................................guguuucugagggcuggac...................  1     0     seq
```

```
                                   Mature                                   Star
5'- uuuuaaaaaaguaauauauucucccagcaccuccaccaaaaauaaaaacuaaaaaguuauuaauuuaucacaguguuucugagggcuggacaaaggcucauuuauguu  -3'   obs
    uuuuaaaaaaguaauauauucucccagcaccuccaccaaaaauaaaaacuaaaaaguuauuaauuuaucacaguguuucugagggcuggacaaaggcucauuuauguu        exp
    ........................((((((.(((((((.....(((((((((....))))).....)))))....)))).....)))))))).....................  reads  mm    sample
    ..................aucuccccagcaUcuccacca.......................................................  1      1     seq
    ..................ucucccccGgcaccuccacca.......................................................  30     1     seq
    ..................cucccccGgcaccuccacc........................................................  17     1     seq
    ..................Auccccagcaccuccacc.........................................................  2      1     seq
    ..................Auccccagcaccuccacca........................................................  9      1     seq
    ..................cucccccGgcaccuccacca.......................................................  69     1     seq
    ..................cucccccagUaccuccacca.......................................................  1      1     seq
    ..................cucccccGgcaccuccaccaaaaa...................................................  1      1     seq
    ....................uccccagNaccuccacca.......................................................  1      1     seq
    ....................uccccagcaccuccacca.......................................................  277    0     seq
    ....................uUcccagcaccuccacca.......................................................  1      1     seq
    ....................Gccccagcaccuccacca.......................................................  2      1     seq
    ....................uccccagAaccuccacca.......................................................  2      1     seq
    ....................uccccagcaAcuccacca.......................................................  3      1     seq
    ....................Cccccagcaccuccacca.......................................................  1      1     seq
    ....................uccccUgcaccuccacca.......................................................  98     1     seq
    ....................uccccagUaccuccacca.......................................................  3242   1     seq
    ....................uccccCgcaccuccacca.......................................................  41     1     seq
    ....................uccccagGaccuccacca.......................................................  3      1     seq
    ....................ucccc Ngcaccuccacca.......................................................  4      1     seq
    ....................uccccagcaccuccaccG.......................................................  1      1     seq
    ....................uccccGgcaccuccaccaa......................................................  1193   1     seq
    ....................uccccagcaUcuccaccaa......................................................  3      1     seq
    ....................uccccUgcaccuccaccaa......................................................  1      1     seq
    ....................uccccagUaccuccaccaa......................................................  33     1     seq
    ....................uccccagcaccuccaccaa......................................................  3      0     seq
    ....................uccccCgcaccuccaccaa......................................................  2      1     seq
    ....................uccccGgcaccuccaccaaaa....................................................  556    1     seq
    ....................uccccagcaccuccaccaGa.....................................................  1      1     seq
    ....................uccccagUaccuccaccaaa.....................................................  42     1     seq
    ....................uccccCgcaccuccaccaaa.....................................................  1      1     seq
    ....................uccccagcaccuccaccaaa.....................................................  1      0     seq
    ....................uccccagcaUcuccaccaaa.....................................................  2      1     seq
```

novel-mir-candidate-418

Provisional ID	:	chr11_27384
Score total	:	1.2
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.5
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	496
Mature read count	:	496
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- uacacccaggacaacaacaucgucaacuacggcaucccagcccaccguggguaagcgcccugcggcuccgcccgccccgcgcccucucaccccggguugggcucgcccg  -3'    exp
    .........(((.........)))......(((..(((((((((...((((...((((...((((......))))...))))....)))))...)))))))))...)))..   reads     mm        sample
    ..........acaacaacaucgucaacuacggcauccca.......................................................................   1         0         seq
    ..........acaacaacaucgucaacuacggcaucccagcccaccgug.............................................................   1         0         seq
    ..........caacaacaucgucaacuacggcaucc..........................................................................   1         0         seq
    ...............................................................cCccgcccgccccgcgccc.........................   1         1         seq
    ..................................................................Ccccgccccgcgcccucuc......................   17        1         seq
    .................................................................cccgccccgcgcccucuA.......................   1         1         seq
    .................................................................cccgccccgcgcccucuc.......................   17        0         seq
    .................................................................cccAccccgcgcccucuc.......................   43        1         seq
    .................................................................cccgccccgcgcccucCca......................   1         1         seq
    .................................................................cccgccccgcgcccucucU......................   17        1         seq
    .................................................................cccgccccgcgcccucucUc.....................   23        1         seq
    .................................................................ccgccccgcgcccucuAa......................   1         1         seq
    .................................................................ccgccccgcgcccucucU......................   110       1         seq
    .................................................................ccgccccgcgcccucucUc.....................   131       1         seq
    .................................................................ccgccccgcgcccucucCccc...................   1         1         seq
    .................................................................cgccccgcgcccucucUc......................   150       1         seq
    .................................................................cgccccgcgcccucucUcc.....................   1         1         seq
```

novel-mir-candidate-61

Provisional ID	:	chr22_43673
Score total	:	74.9
Score for star read(s)	:	3.9
Score for read counts	:	64.4
Score for mfe	:	2
Score for randfold	:	1.6
Score for cons. seed	:	3
Total read count	:	138
Mature read count	:	137
Loop read count	:	0
Star read count	:	1

```
        Star                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mature
cagagcaaggcccugggggugggggcccuggaggugucccggaaaaaacggaacaccuguccuccaggaacacccuguccuccaggagcucacccuacaucacagaagcccau
.....cuguccuccaggagcuca.....  1  0  seq
```

```
5'- cagagcaaggcccugggggugggggcccuggaggugucccggaaaaaacggaacaccuguccuccaggaacacccuguccuccaggagcucacccuacaucacagaagcccau  -3'  obs
    cagagcaagcccugggggugggggcccuggaggugucccggaaaaaacggaacaccuguccuccaggaacacccuguccuccaggagcucacccuacaucacagaagcccau        exp
    ........((((((((((((((((.((((((((((.(((-------))).)))))-----))))))----)))))).))))))))).))).......................
    ........ggcccugggggugggggAc.....................................................................
    ....................................................................Ccccuguccuccaggagc.....................
    ....................................................................acccuguccuccaggagc.....................
    ....................................................................Ccccuguccuccaggagcu....................
    ....................................................................Gcccuguccuccaggagcu....................
    ....................................................................acccuguccuccaggagcu....................
    ....................................................................Ncccuguccuccaggagcu....................
    ....................................................................accAuguccuccaggagcu....................
    ....................................................................acccuguccCccaggagcuc...................
    ....................................................................acccGguccuccaggagcuc...................
    ....................................................................acccuguccuccaggagcuU...................
    ....................................................................Ccccuguccuccaggagcuc...................
    ....................................................................acccuguccuccaggagcuc...................
    ....................................................................Ncccuguccuccaggagcuc...................
    ....................................................................Gcccuguccuccaggagcuc...................
    ....................................................................Ccccuguccuccaggagcuca..................
    ....................................................................Gcccuguccuccaggagcuca..................
    ....................................................................Ncccuguccuccaggagcuca..................
    ....................................................................acccuguccuccaggagcuca..................
    ....................................................................acccuguccuccaggagcucU..................
    ....................................................................Ncccuguccuccaggagcucac.................
    ....................................................................Ccccuguccuccaggagcucac.................
    ....................................................................Gcccuguccuccaggagcucac.................
    ....................................................................acccuguccuccaggagcucac.................
    ....................................................................acccuguccuccaggagcucacU................
    ....................................................................acccuguccuccaggagcucacG................
    ....................................................................Ccccuguccuccaggagcucacc................
    ....................................................................cccuguccuccaggagcu.....................
    ....................................................................cccuguccuccaggagcuc....................
    ....................................................................Uccuguccuccaggagcucac.................
    ....................................................................ccuguccuccaggagcuc....................
    ....................................................................ccuguccuccaggagcuca...................
    ....................................................................ccuguccuccaggagcucac..................
```

reads	mm	sample
1	1	seq
1	1	seq
1	0	seq
2	1	seq
4	1	seq
7	0	seq
2	1	seq
1	1	seq
1	1	seq
1	1	seq
1	1	seq
11	1	seq
8	0	seq
5	1	seq
20	1	seq
4	1	seq
3	1	seq
2	1	seq
8	0	seq
2	1	seq
2	1	seq
1	1	seq
2	1	seq
2	0	seq
15	1	seq
15	1	seq
1	1	seq
1	0	seq
4	0	seq
1	1	seq
2	0	seq
3	0	seq
3	0	seq

novel-mir-candidate-53

Provisional ID	:	chrX_45144
Score total	:	93.9
Score for star read(s)	:	3.9
Score for read counts	:	86.3
Score for mfe	:	2.8
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	181
Mature read count	:	172
Loop read count	:	1
Star read count	:	8

Mature Star

```
5'- cccgccaccuccgcccguggccggagagccccaggcccgagccacgcggucuuccgggcccgggucggggcucgauggcuacguggaggcgggacggccgacugacaggc  -3'   obs
    cccgccaccuccgcccguggccggagagccccaggcccgagccacgcggucuuccgggccccgggucggggcucgauggcuacguggaggcgggacggccgacugacaggc        exp
    ((((((...(((((..(((((((..(((((((.(((((((.(((...(((....)))))))..))))))))))))))..))))))))))))))))))))...(((........)))   reads     mm        sample
    ....................ccggagagccccaggcccg.......................................................................   1         0         seq
    ....................ccggagagccccaggcccga......................................................................   9         0         seq
    ....................ccggagagccccaggcccgaA.....................................................................   2         1         seq
    ....................ccggagagccccaggcccgaU.....................................................................   1         1         seq
    ....................ccggagagccccaggcccgag.....................................................................   31        0         seq
    ....................ccggagagccccaggcccgagc....................................................................   13        0         seq
    ....................ccggagagccccaggcccgagU....................................................................   55        1         seq
    ....................ccggagagccccaggcccgagG....................................................................   1         1         seq
    ....................ccggagagccccaggcccgagA....................................................................   27        1         seq
    ....................ccggagagccccaggcccgagcA...................................................................   6         1         seq
    ....................ccggagagccccaggcccgagAc...................................................................   1         1         seq
    ....................ccggagagccccaggcccgagcU...................................................................   1         1         seq
    ....................ccggagagccccaggcccgagcc...................................................................   1         0         seq
    ....................ccggagagccccaggcccgagcAa..................................................................   6         1         seq
    ....................ccggagagccccaggcccgagcca..................................................................   1         0         seq
    .......................gagagccccaggcccgagcA...................................................................   1         1         seq
    .......................gagagccccaggcccgagccaG................................................................   1         1         seq
    .......................gagagccccaggcccgagccacU...............................................................   2         1         seq
    .......................gagagccccaggcccgagccacA...............................................................   1         1         seq
    .......................gagagccccaggcccgagccacgU..............................................................   1         1         seq
    .......................gagagccccaggcccgagccacgA..............................................................   4         1         seq
    .......................gagagccccaggcccgagccacgc...............................................................   5         0         seq
    .......................gagagccccaggcccgagccacgcU..............................................................   1         1         seq
    ......................agagccccaggcccgagc.......................................................................   1         0         seq
    ...................................ggcccgagccacCcgguc.........................................................   1         1         seq
    ..............................................acgcAgucuuccgggcccg.....................................................   1         1         seq
    ..........................................................cccgggucggggcucgauggcu..............................   2         0         seq
    ..........................................................cccgggucggggcucAauggcu..............................   3         1         seq
    ..........................................................cccgggucggggcucAauggcua.............................   2         1         seq
    ..........................................................ccgggucggggcucAauggcu...............................   1         1         seq
```

novel-mir-candidate-257

Provisional ID	:	chr14_32088
Score total	:	2.2
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.5
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	80
Mature read count	:	80
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- cgggagccugggaaggcgcgagcuauccagucggagggaggggggacgagcgcgcgggccgcgcuccucgcucgcgucccgcucccuccucccccucucgcuucucccucccccu  -3'    exp
    .(((((...(((((((.((.(((..........(((((((((((((..(((.((((((......)))))).)))))))))..))))))))....)))))))))))..))))).. reads      mm         sample
    .gggagccugggaaggcgcgag.......................................................................................... 1          0          seq
    ............................ccagucggagggaggggga................................................................ 1          0          seq
    ..............................................agcgcgcggggccgcguA............................................... 1          1          seq
    ...............................................cgcgcggggccgcguccuc.............................................. 1          0          seq
    ......................................................................ucgcucgcgucccccgcucccu......................... 2          0          seq
    .......................................................................cgcucgcgucccccgcucccuccuc...................... 1          0          seq
    ......................................................................cucgcgucccccgcucccu........................... 2          0          seq
    ......................................................................cucgcgucccccgcucccucc......................... 2          0          seq
    .......................................................................cGcgcgucccccgcucccuccu...................... 1          1          seq
    ......................................................................cucgcgucccccgcucccuccu........................ 10         0          seq
    ......................................................................cucgcgucccccgcucccuccuc....................... 11         0          seq
    .......................................................................cGcgcgucccccgcucccuccucc..................... 1          1          seq
    ......................................................................cucgcgucccccgcucccuccucc...................... 21         0          seq
    ......................................................................cucgcgucccccgcucccuccucA...................... 3          1          seq
    ......................................................................cucgcgucccccgcucccuccucU...................... 19         1          seq
    ......................................................................cucgcgucccccgcucccuccuccU..................... 3          1          seq
    ......................................................................cucgcgucccccgcucccuccucccA.................... 1          1          seq
    ......................................................................ucgcgucccccgcucccuccu......................... 1          0          seq
    ......................................................................ucgcgucccccgcucccuccuc........................ 1          0          seq
    ........................................................................Ccccccgcucccuccuccc.......................... 1          1          seq
    ........................................................................uccccgcucccuccuccccucu....................... 2          0          seq
```

novel-mir-candidate-247

Provisional ID	:	chr2_6022
Score total	:	2.3
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.6
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	46
Mature read count	:	46
Loop read count	:	0
Star read count	:	0

Mature **Star**

```
5'- ucccgcagcccggacuccgccgcgggccugcgagcgcccccgggcauggccagcugccagugugcggagaggucgagagggacccggggugggagagggugaugggagaa  -3'   exp
    (((((..((((...(((((((.(((((((.(((.(.(.(((.(((((((.....)))).))).))).).).)))...))).)))).)))))))).))))..)))))...   reads    mm       sample
    .................cgccgcgggccugcgagcgcc.............................................................................   2        0        seq
    .................cUccgcgggccugcgagcgcc.............................................................................   1        1        seq
    .................cgccgcgggccugcgagcgccc............................................................................   2        0        seq
    ..................gccgcgggccugcgagcgcc.............................................................................   6        0        seq
    ...................gccgcgggccugcgagcgccc...........................................................................   1        0        seq
    ....................ccgcgggccugcgagcgcc............................................................................   5        0        seq
    ....................ccgcgggccugcgagcgccc...........................................................................   1        0        seq
    .....................cgcgggccugcgagcgcc............................................................................   32       0        seq
    .....................cgcgggccugcgagcgccc...........................................................................   1        0        seq
```

novel-mir-candidate-316

Provisional ID	:	chr20_42728
Score total	:	1.9
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	28
Mature read count	:	27
Loop read count	:	0
Star read count	:	1

Star Mature

```
5'- cauccuccagagagaggaaccccggcacaggcagggcggaggcagggcagggccggaccagaccugauggugccugucccccgcccugcaggccuccagaauccccaucgaca  -3'   obs
    cauccuccagagagaggaaccccggcacaggcagggcggaggcaggcagggccggaccagaccugauggugccugucccccgcccugcaggccuccagaauccccaucgaca        exp
    ..(((((......)))))..(((.((....)).))).((((((...(((((((.((((...(((....)))....))))...)))))))..)))))).............   reads   mm   sample
    ............................caggcagggcggaggcagggcagggccggacc.............................................   1       0    seq
    ................................cagggcggaggcagggcagggccgg.................................................   1       0    seq
    ...................................gcggaCgcagggcagggcc......................................................   1       1    seq
    ........................................agCgcagggccggaccag...................................................   1       1    seq
    ....................................................................gugccugucccccgcccug.......................   2       0    seq
    ....................................................................gugccugucccccgcccugU......................   1       1    seq
    ....................................................................gugccugucccccgcccugA......................   1       1    seq
    ....................................................................gugccugucccccgcccugca.....................   4       0    seq
    ....................................................................gugccugucccccgcccugcaA....................   2       1    seq
    ....................................................................gugccugucccccgcccugcag....................   1       0    seq
    ....................................................................gugccugucccccgcccugcagU...................   14      1    seq
    ....................................................................gugccugucccccgcccugcagA...................   1       1    seq
    .....................................................................ugccugucccccgcccugcagU...................   1       1    seq
```

novel-mir-candidate-1

Provisional ID	:	chr4_10950
Score total	:	53712
Score for star read(s)	:	3.9
Score for read counts	:	53709.7
Score for mfe	:	1.2
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	105361
Mature read count	:	105359
Loop read count	:	0
Star read count	:	2

Mature Star

```
5'- uagaauggaaggagcccugagccccgcaggggucggccccccucaccugaccuguccuccggccagcuccaucgcguggccaccacauuccucgcauugcggucggcac  -3'   obs
    uagaauggaaggagcccugagccccgcaggggucggccccccucaccugaccuguccuccggccagcuccaucgcguggccaccacauuccucgcauugcggucggcac        exp
    ....(((((.(((((..((.(((....(.(((((((.........)))))))..).....)))))))))).)).))).((((((.(((..........)).)))).)))..   reads   mm   sample
    ...................Ggccccgcaggggucggc.......................................................................   2       1    seq
    ...................agcccCgcCggggucggc.......................................................................   3       1    seq
    ...................agcccCgcCggggucggcc......................................................................   4       1    seq
    ...................agcccCgcCggggucggccc.....................................................................   1       1    seq
    ...................gccccgcaggggucggcc.......................................................................   72      0    seq
    ...................gccccgcaggggucggcA.......................................................................   1       1    seq
    ...................gccccgcUggggucggcc.......................................................................   19      1    seq
    ...................gccccgcCggggucggcc.......................................................................   73504   1    seq
    ...................gccccgcGggggucggcc.......................................................................   42      1    seq
    ...................gccccgcNggggucggcc.......................................................................   5       1    seq
    ...................gccccgcUggggucggccc......................................................................   5       1    seq
    ...................gccccgcCggggucggccc......................................................................   13827   1    seq
    ...................gccccgcGggggucggccc......................................................................   8       1    seq
    ...................gccccgcaggggucggccc......................................................................   10      0    seq
    ...................gccccgcCggggucggcccc.....................................................................   7       1    seq
    ...................ccccgcCggggucggccc.......................................................................   17802   1    seq
    ...................ccccgcUggggucggccc.......................................................................   9       1    seq
    ...................ccccgcGggggucggccc.......................................................................   2       1    seq
    ...................Uccccgcaggggucggccc......................................................................   1       1    seq
    ...................ccccgcaggggucggccc.......................................................................   15      0    seq
    ...................ccccgcCggggucggcccc......................................................................   9       1    seq
    ...................ccccgcCggggucggccccc.....................................................................   1       1    seq
    ....................cccgcCggggucggcccc......................................................................   8       1    seq
    ....................cccgcCggggucggccccc.....................................................................   2       1    seq
    ............................................ccugaccuguccucAggc.............................................   1       1    seq
    .............................................cugaccuguccucAggcc............................................   1       1    seq
```

novel-mir-candidate-317

Provisional ID	:	chr5_13244
Score total	:	1.8
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.3
Score for randfold	:	-2.2
Score for cons. seed	:	3
Total read count	:	36
Mature read count	:	36
Loop read count	:	0
Star read count	:	0

Mature Star

```
5'- gcggccccgggagcuuggcgcggcccggccuggaugcgcugggcggagggugcaggggagggcacggcgccgcuugcuuggccugcgcacccggaccuagaagccgggac  -3'    exp
    ((((((..(.((((..((((((((((..(((...((((((........)))))))))..))))).).))))))))).).)).))))...(((((.(......)))))).. reads      mm         sample
    ....................cggcccggccuggaugcgcu.......................................................................  19         0          seq
    ....................cggcccggGcuggaugcgcu.......................................................................  1          1          seq
    ....................cggcccggccuggaugcgcA.......................................................................  2          1          seq
    ....................cggcccggccuggaugcgcuA......................................................................  2          1          seq
    ....................cggcccggccuggaugcgcuU......................................................................  11         1          seq
    ....................cggcccggccuggaugcgcugU.....................................................................  1          1          seq
    ............................................................cgccgcuugcuuggccug.........................  1          0          seq
```

novel-mir-candidate-156

Provisional ID	:	chr10_25208
Score total	:	24.9
Score for star read(s)	:	3.9
Score for read counts	:	18
Score for mfe	:	2.3
Score for randfold	:	-2.2
Score for cons. seed	:	3
Total read count	:	47
Mature read count	:	46
Loop read count	:	0
Star read count	:	1

Star **Mature**

```
5'- cucgggaguccugguccccgcccccgcagccccccuccgcgcccucaagcucuaaguccgugaagccgcagcggugggggccugcaggcccggcagccgggagggccugguucg -3'   obs
    cucgggaguccugguccccgcccccgcagccccccuccgcgcccucaagcucuaaguccgugaagccgcagcggugggggccugcaggcccggcagccgggagggccugguucg        exp
    .(((((..(((((((.(((..((.(((((((((.((((((..(((.(((...)))...)))....)).)))).)))))).))))).)).))).))))))).))).))))).....   reads     mm        sample
    ................ccgcccccgcagccccccuccgc.......................................................................   1         0         seq
    ......................................................................cggugggggccugcaggcccggc....................   8         0         seq
    ......................................................................cggugggggccugcaggcccggcU...................   1         1         seq
    .......................................................................gggugggggccugcaggccAggc....................   1         1         seq
    .......................................................................gggugggggccugcaggcccggc....................   33        0         seq
    ......................................................................ggCgggggccugcaggcccggc....................   1         1         seq
    .......................................................................gggugggggccugcaggcccggca...................   2         0         seq
```

novel-mir-candidate-373

Provisional ID	:	chr6_16216
Score total	:	1.6
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.1
Score for randfold	:	-2.2
Score for cons. seed	:	3
Total read count	:	108
Mature read count	:	108
Loop read count	:	0
Star read count	:	0

Mature **Star**

```
5'- guauggacggcgucuuucaccccuugccucucggcgcccccugccuuccgcagcauccuagccggugcgaggggcgggcggacgcggcgcuaaggugGcucccgccccau -3'   exp
    ..((((..((((....(((((..((((.....(((((((((((((.((((.(.........).)))).)))))))).)).)))))))....)))))....))))))))   reads     mm        sample
    ..................CccccuugccucucggcgC.................................................................   3         1         seq
    ..................Cccccuugccucucggcgcc................................................................   12        1         seq
    ..................Cccccuugccucucggcgccc...............................................................   9         1         seq
    ..................Cccccuugccucucggcgcccc..............................................................   6         1         seq
    ...................ccccuugccucucggcgcc................................................................   1         0         seq
    ...................ccccuugccucucggcgccc...............................................................   3         0         seq
    ...................ccccuugccucucggcgcccc..............................................................   2         0         seq
    ...................ccccuugccucucggcgccccC.............................................................   3         1         seq
    ....................ccuugccucucggcgccc................................................................   23        0         seq
    ....................ccuugccucucggcgccA................................................................   1         1         seq
    ....................ccuugccucucggcgcccc...............................................................   20        0         seq
    ....................ccuugccucucggcgccccC..............................................................   13        1         seq
    .....................cuugccucucggcgcccc...............................................................   4         0         seq
    .....................cuugccucucggcgccccC..............................................................   2         1         seq
    ......................uugccucucggcgccccC.............................................................   6         1         seq
    ..............................................................ggggcgggcggacgcggG......................   1         1         seq
```

novel-mir-candidate-15

Provisional ID	:	chr17_37561
Score total	:	731.9
Score for star read(s)	:	3.9
Score for read counts	:	728.2
Score for mfe	:	2.6
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	1440
Mature read count	:	1436
Loop read count	:	0
Star read count	:	4

```
                    Mature                  Star
5'- ccaggagggggcgggcucggcgggucgggggcggggccggggguccgagcucgggccccgccucccgccccgccagcuccugugagcugccgagugcuaggcacccggg  -3'    obs
    ccaggagggggcgggcucggcgggucgggggcggggccggggguccgagcucgggcccgccucccgccucccgccc agcuccugugagcugccgagugcuaggcacccggg         exp
    .(((...(.((.(((((.(((((((...((((((((((.(((((.......))))).)))))))))...))))))))))))).)...)))((((.((((...)))).))).   reads      mm         sample
    ccCggagggggcgggcuc.....................................................................................   25         1          seq
    ....gagggggcgggcucCgcggg...............................................................................   1          1          seq
    ..................Cgcgggucgggggcggg....................................................................   28         1          seq
    ..................Cgcgggucgggggcgggg...................................................................   32         1          seq
    ..................Cgcgggucgggggcggggc..................................................................   203        1          seq
    ..................gcgggucgggggcgAgg....................................................................   1          1          seq
    ..................gcgggucgggggcgggg....................................................................   50         0          seq
    ..................gcgggucgggggcgggA....................................................................   1          1          seq
    ..................gcgggucgggggcggCgc...................................................................   1          1          seq
    ..................gcUgggucgggggcgggc...................................................................   1          1          seq
    ..................gcgggucgggggUcggggc..................................................................   3          1          seq
    ..................gcgggucgggggcggggc...................................................................   353        0          seq
    ..................gcggguGgggggcgggc....................................................................   1          1          seq
    ..................Ucgggucgggggcggggc...................................................................   2          1          seq
    ..................Acgggucgggggcggggc...................................................................   1          1          seq
    ..................gcgggucgggggcggggcU..................................................................   1          1          seq
    ..................gcgggucgggggcggggcG..................................................................   48         1          seq
    ..................gcgggucgggggcggggcGg.................................................................   10         1          seq
    ..................gcgggucgggggcggggcGgg................................................................   2          1          seq
    ..................cgggucgggggcggggU....................................................................   1          1          seq
    ..................cgggucgggggcggggc....................................................................   552        0          seq
    ..................Ggggucgggggcggggc....................................................................   1          1          seq
    ..................cgggGcgggggcggggc....................................................................   1          1          seq
    ..................cUgggucgggggcggggc....................................................................   3          1          seq
    ..................cgAgucgggggcggggc.....................................................................   1          1          seq
    ..................cgggucgggggcggggcG....................................................................   89         1          seq
    ..................cgggucgggggcggggcU....................................................................   4          1          seq
    ..................cgggucgggggcggggcA....................................................................   5          1          seq
    ..................cgggucgggggcggggcGg...................................................................   23         1          seq
    ..................cgggucgggggcggggcGgg..................................................................   3          1          seq
    ..................gggucgggggcggggcU.....................................................................   1          1          seq
    ..................gggucgggggcggggcG.....................................................................   7          1          seq
    ..................gggucgggggcggggcGg....................................................................   3          1          seq
```

```
                    Mature                  Star
ccaggagggggcgggcucggcgggucgggggcggggccggggguccgagcucgggccccgccucccgccccgccagcuccugugagcugccgagugcuaggcacccggg
.....................gggucgggggcggggcGgg.....................................................   1          1          seq
.....................ggucgggggcggggcGgg......................................................   1          1          seq
.....................gucgggggcggggcGgg.......................................................   1          1          seq
.......................cggCgggcggggccgggg.....................................................   1          1          seq
.......................ggCgggcggggccggggu.....................................................   9          1          seq
...............................ggggccgggguccgagcuG...........................................   1          1          seq
.............................................cgagcucgggcccgccucccgccucccgccagcucc.............   1          0          seq
...............................................cgggcccgccucccgccGcc...........................   1          1          seq
...................................................ccgccucccgccucccgccU.......................   1          1          seq
...................................................ccgccucccgccucAgcca........................   1          1          seq
...................................................ccgccucccgccucccgccaCcu....................   1          1          seq
...................................................gccucccgccucccgccGgc.......................   1          1          seq
.....................................................................cugugagcugccgagugcuaggc.....   1          0          seq
```

novel-mir-candidate-57

Provisional ID	:	chr1_2348
Score total	:	75.8
Score for star read(s)	:	3.9
Score for read counts	:	72.5
Score for mfe	:	2.2
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	154
Mature read count	:	149
Loop read count	:	4
Star read count	:	1

Mature **Star**

```
5'- gcggagacagagcgcuugggauccacggcgcucggaccgcuguccuccaacagcgcagggcagagcggcuggcgccgccggagcgcggagccacgacccucccuggccg  -3'   obs
    gcggagacagagcgcuugggauccacggcgcucggaccgcuguccuccaacagcgcagggcagagcggcuggcgccgccggagcgcggagccacgacccucccuggccg        exp
    .(((...(((.(((((((.((.....((((((.(((.(((((((((((.(......).)))))..))))))))))))))))).)))))))((((........)))))))).)))   reads   mm   sample
    ..........agcgcuugggauccacggc.......................................................................................   2       0    seq
    ..........gcgcuugggauccacggc........................................................................................   2       0    seq
    ............cgcuugggauccacggcgcu....................................................................................   1       0    seq
    ............gcuugggauccacggcgcu.....................................................................................   1       0    seq
    ..................gauccacggcgcucggaccg..............................................................................   19      0    seq
    ..................Uauccacggcgcucggaccg..............................................................................   1       1    seq
    ..................gauccacggcgcucggaccgc.............................................................................   1       0    seq
    ...................auccacggcgcucggacc...............................................................................   1       0    seq
    ...................auccacgNcgcucggaccg..............................................................................   1       1    seq
    ...................auccacggcgcucggaccg..............................................................................   67      0    seq
    ...................auccacggcgcucggacAg..............................................................................   1       1    seq
    ...................auccacggcgcucggaAcg..............................................................................   1       1    seq
    ...................auccacggcgcucCgaccg..............................................................................   1       1    seq
    ...................Nuccacggcgcucggaccg..............................................................................   1       1    seq
    ...................aucUacggcgcucggaccg..............................................................................   1       1    seq
    ...................Cuccacggcgcucggaccgc.............................................................................   1       1    seq
    ...................auccacggcgcucggaccgc.............................................................................   2       0    seq
    ...................Guccacggcgcucggaccgc.............................................................................   1       1    seq
    ...................auccacggcgcucggaccgcu............................................................................   1       0    seq
    ....................uccacggcgcucggaccg..............................................................................   43      0    seq
    ....................uccacggcgcucggaccgcu............................................................................   2       0    seq
    ....................uccacggcgcucggaccgcugu..........................................................................   1       0    seq
    ....................uccacggcgcucggaccgcuguccuccaac..................................................................   1       0    seq
    .....................ccacggcgcucggaccgcug...........................................................................   1       0    seq
    .....................cacggcgcucggaccgcugu...........................................................................   1       0    seq
    ......................cggcgcucggaccgcuguc............................................................................   1       0    seq
    .......................cggcgcucggaccgcuguccu........................................................................   1       0    seq
    ........................cgcucggaccgcuguccuccaacagcgcaggg............................................................   1       0    seq
    ..........................cucggaccgcuguccuccaacag...................................................................   1       0    seq
    ............................cggaccgcuguccuccaacagc................................................................   1       0    seq
    ......................................ccuccaacagcgcagggcag..........................................................   1       0    seq
    ..............................................uccaacagcgcagggcag...................................................   2       0    seq
    ...............................................aacagcgcagggcagagcggcug.............................................   1       0    seq
```

Mature **Star**

```
gcggagacagagcgcuugggauccacggcgcucggaccgcuguccuccaacagcgcagggcagagcggcuggcgccgccggagcgcggagccacgacccucccuggccg
.....................................................gcgcagggcagagcggcuggcg.................................   1   0   seq
.....................................................gcagggcagagcggcuggcgccg................................   1   0   seq
.......................................................gcuggcgccgccggagcg.....................................   1   0   seq
.........................................................................cggagcgcggagccacgaccc..................   1   0   seq
...........................................................................gagccacgacccucccug....................   1   0   seq
```

novel-mir-candidate-28

Provisional ID	:	chr17_36875
Score total	:	156.2
Score for star read(s)	:	3.9
Score for read counts	:	153.1
Score for mfe	:	2
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	312
Mature read count	:	311
Loop read count	:	0
Star read count	:	1

Star **Mature**

```
5'- cccucacuccuucccaggagaggagacagggcuaggauccccacccgaccgcgggccauaaacacuuggcugcggcggccgccgcggggguuucuaggagagcuggcucc  -3'   obs
    cccucacuccuucccaggagaggagacagggcuaggauccccacccgaccgcgggccauaaacacuuggcugcggcggccgccgcggggguuucuaggagagcuggcucc         exp
    ((((..(((((((....))).)))))..))))((((((((((.((((.(((((((.(((........)))))))))))).....).)))).)))))))(((......))).   reads    mm    sample
    ......................................cccacccgaccgcCggcc.................................................   1        1     seq
    ...................................................................Ccugcggcggccgccgcgggg....................   1        1     seq
    ...................................................................Ucggcggccgccgcgggg.......................   1        1     seq
    ...................................................................gcggcggccgccgcgggg.......................   29       0     seq
    ...................................................................gcggcggccgccgcggggu......................   1        0     seq
    ...................................................................gcggcggccgccgcggggC......................   272      1     seq
    ...................................................................gcggcggccgccgcggggCu.....................   7        1     seq
    ...................................................................gcggcggccgccgcggggguC....................   1        1     seq
```

novel-mir-candidate-361

Provisional ID	:	chr12_28990
Score total	:	1.7
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	404034
Mature read count	:	404034
Loop read count	:	0
Star read count	:	0

Mature Star

```
5'- uggaggugcucgcaacgggcucccccggcaucaccaccacgcagcgccugugcuggggguccccacccugcagagccccaccaucccccccggugucugcucagcccucg  -3'    exp
    ..((((.(((.(((..((((((((((((((...(.(......).)...)))))))))).))))....))).((((..((((........))))...)))))))))))).   reads     mm        sample
    ...................cucccccggcaucUccacc.......................................................................   21        1         seq
    ...................cucccccggcaucUccacca......................................................................   78        1         seq
    ...................ucccccggcaucaccUcca.......................................................................   1         1         seq
    ...................Ncccccggcaucaccacca.......................................................................   1         1         seq
    ...................ucccccggcaucaccaccU.......................................................................   1         1         seq
    ...................ucccccggcaucaccaccG.......................................................................   2         1         seq
    ...................ucccccggcaucGccacca.......................................................................   84        1         seq
    ...................ucccccggcaucCccacca.......................................................................   92        1         seq
    ...................ucccccggcaucacUacca.......................................................................   1         1         seq
    ...................ucccccggcaucUccacca.......................................................................   403590    1         seq
    ...................Gcccccggcaucaccacca.......................................................................   1         1         seq
    ...................ucccccggcaucaccacca.......................................................................   144       0         seq
    ...................ucccccggcaucUccaccac......................................................................   11        1         seq
    ...................ucccccggcaucaccaccaA......................................................................   2         1         seq
    ...................ucccccggcaucaccaccaU......................................................................   2         1         seq
    ...................ucccccggcaucUccaccacg.....................................................................   1         1         seq
    ......................ccccggcaucUccaccacg.....................................................................   1         1         seq
    .......................cccggcaucUccaccacg.....................................................................   1         1         seq
```

novel-mir-candidate-292

Provisional ID	:	chrX_44756
Score total	:	1.9
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.2
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	7883
Mature read count	:	7883
Loop read count	:	0
Star read count	:	0

Mature **Star**

```
5'- cugagaguccggcugacuggggcgggcggcggagggggcgggaaggagggggcucccagggcagccuggcccagggagcaguaaugacucugcaggggaugcccagug  -3'   exp
    (((((((((..(((..(((((.(((((.((...(((((.............)))))....)).)))))..)))))..)))).....)))))).)))((((...)))....   reads   mm   sample
    ...agaguccggcugCcuggggcgg.....................................................................................   1       1    seq
    .......uccggcugCcuggggcgg.....................................................................................   1       1    seq
    ............cugCcuggggcgggcggc................................................................................   1       1    seq
    ............cugaGuggggcgggcggcgg..............................................................................   1       1    seq
    ..................ggggcgggcggcggCggg..........................................................................   1       1    seq
    ..................gCggcgggcggcggaggg..........................................................................   67      1    seq
    ..................ggggcgggcggGggaggg..........................................................................   2       1    seq
    ..................gCggcgggcggcggagggg.........................................................................   131     1    seq
    ..................gAggcgggcggcggaggggc........................................................................   1       1    seq
    ..................gCggcgggcggcggaggggc........................................................................   511     1    seq
    ..................gggcgggcggcggaggggc.........................................................................   1       0    seq
    ..................gggcAggcggcggaggggc.........................................................................   1       1    seq
    ..................Cggcgggcggcggaggggc.........................................................................   196     1    seq
    ..................Uggcgggcggcggaggggc.........................................................................   1       1    seq
    ..................gggcgggcggcggaggggcC........................................................................   3       1    seq
    ..................ggcgggcggcggaggggc.........................................................................   1384    0    seq
    ..................ggcgggcAgcggaggggc.........................................................................   2       1    seq
    ..................ggcggAcggcggaggggc.........................................................................   1       1    seq
    ..................ggcAggcggcggaggggc.........................................................................   147     1    seq
    ..................ggcgggAggcggaggggc.........................................................................   1       1    seq
    ..................ggUgggcggcggaggggc.........................................................................   1       1    seq
    ..................ggcgggcgAcggaggggc.........................................................................   2       1    seq
    ..................ggcgggcggcggaggGcc.........................................................................   1       1    seq
    ..................Agcgggcggcggaggggc.........................................................................   1       1    seq
    ..................ggcgggcggcggagAggc.........................................................................   1       1    seq
    ..................Cgcgggcggcggaggggc.........................................................................   4       1    seq
    ..................ggcgggcggcggagggguU........................................................................   2       1    seq
    ..................ggcgggcggcggaAgggc.........................................................................   1       1    seq
    ..................ggGgggcggcggaggggc.........................................................................   1       1    seq
    ..................ggcgggcggcCgaggggc.........................................................................   1       1    seq
    ..................gUcgggcggcggaggggc.........................................................................   12      1    seq
    ..................ggcgggcggcgAaggggc.........................................................................   2       1    seq
    ..................ggcgggcggcUgaggggc.........................................................................   1       1    seq
    ..................ggcgggcggcggaggggG.........................................................................   1       1    seq
```

Mature **Star**

```
cugagaguccggcugacuggggcgggcggcggagggggcgggaaggagggggcucccagggcagccuggcccagggagcaguaaugacucugcaggggaugcccagug
...................ggAgggcggcggaggggc.......................   1   1   seq
...................gAcgggcggcggaggggc.......................   3   1   seq
...................Ugcgggcggcggaggggc.......................   3   1   seq
...................ggcgggcggAggaggggc.......................   1   1   seq
...................ggcgggcggcggagggAc.......................   1   1   seq
...................ggcgggcggcggaggggcU......................   8   1   seq
...................ggcgggcggcggaggggcC......................   2462   1   seq
...................ggcgggcggcggaggggcA......................   1   1   seq
...................ggcgggcggcggaggggcCg.....................   148   1   seq
...................gcgggcggcggagCggcg.......................   1   1   seq
...................gcgggcggcggaggggcU.......................   18   1   seq
...................gcgggcggcggaggggcA.......................   2   1   seq
...................gcgggcggcggaggggcg.......................   1   0   seq
...................gcgggcggcggaggggcC.......................   3246   1   seq
...................gcgggcggcggagCggcgg......................   1   1   seq
...................gcgggcggcggaggggcUg......................   1   1   seq
...................gcgggcggcggaggggcCg.....................   214   1   seq
.....................cgggcggcggagCggcgg.....................   1   1   seq
.....................cggCcggcggaggggcgggg...................   1   1   seq
.....................cgggcggcggaggUgcggggaa.................   1   1   seq
```

novel-mir-candidate-47

Provisional ID	:	chr19_39593
Score total	:	95.3
Score for star read(s)	:	3.9
Score for read counts	:	91.9
Score for mfe	:	2.3
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	192
Mature read count	:	183
Loop read count	:	0
Star read count	:	9

```
                                   Star                      Mature
5'- gcaccaaggugaggcgggggaggaagcggcucacagcgaggaggcgggaguggccgaggcugaugggccucccacccccgggcucccgcagggcaucuaccgggucaa  -3'    obs
    gcaccaaggugaggcgggggaggaagcggcucacagcgaggaggcgggaguggccgaggcugaugggccucccacccccgggcucccgcagggcaucuaccgggucaa         exp
    ((.((...((((((.((..........)).)))))).(((.((((.((((.(((((..(((((((....)))))))))))).))))..)))))))).)))).............   reads      mm         sample
    ................................acagcgaggaggcgggaguggccgaggcugaugggcc.............................................   1          0          seq
    ................................cagcgaggaggcgggaguggccg...............................................................   1          0          seq
    ................................cagcgaggaggcgggaguggccgaggU...........................................................   1          1          seq
    ................................cagcgaggaggcgggaguggccgaggcugaugggcc.............................................   2          0          seq
    ................................agcgaggaggcgggaguggg..................................................................   1          0          seq
    ................................agcgaggaggcgggaguggccga...............................................................   1          0          seq
    ................................agcgaggaggcgggaguggccgag..............................................................   1          0          seq
    ................................agcgaggaggcgggaguggccgagg.............................................................   1          0          seq
    ................................agcgaggaggcgggaguggccgaggU...........................................................   1          1          seq
    ................................agcgaggaggcgggaguggccgaggA...........................................................   1          1          seq
    ...................................cgaggaggcgggaguggccgaggc............................................................   1          0          seq
    ..................................................ccgaggcugaugggccucccacccccgggcucccg..................................   1          0          seq
    ......................................................uggccucccacccccgggcuc...........................................   1          0          seq
    ..........................................................cucccacccccgggcucc...........................................   1          0          seq
    ..........................................................cucccacccccgggcucccgA........................................   2          1          seq
    ..........................................................cucccacccccgggcucccgU........................................   1          1          seq
    ..........................................................cucccacccccgggcucccgcaA......................................   1          1          seq
    ..........................................................uccccacccccgggcucc...........................................   3          0          seq
    ..........................................................uccccacccccgggcuccU..........................................   1          1          seq
    ..........................................................uccccacccccgggcucccg.........................................   17         0          seq
    ..........................................................uccccacccccgggcucccgA........................................   12         1          seq
    ..........................................................uccccacccccgggcuccNgca.......................................   1          1          seq
    ..........................................................uccccacccccgggcucccgAa.......................................   3          1          seq
    ..........................................................uccccacccccgggcucccgUa.......................................   3          1          seq
    ..........................................................uccccacccccgggcucccgca.......................................   24         0          seq
    ..........................................................uccccacccccgggcucccgcU......................................   1          1          seq
    ..........................................................uccccacccccgggcucccgcaA.....................................   9          1          seq
    ..........................................................uccccacccccgggcuccAgcag......................................   2          1          seq
    ..........................................................uccccacccccgggcucccgcag......................................   29         0          seq
    ..........................................................uccccacccccgggcucccgcaU......................................   3          1          seq
    ..........................................................uccccacccccgggcucccgcagC.....................................   1          1          seq
    ..........................................................uccccacccccgggcucccgcagU.....................................   55         1          seq
    ..........................................................uccccacccccgggcucccgcagA.....................................   13         1          seq
```

```
                                   Star                      Mature
gcaccaaggugaggcgggggaggaagcggcucacagcgaggaggcgggaguggccgaggcugaugggccucccacccccgggcucccgcagggcaucuaccgggucaa
.......................................................................cccgggcucccgUagggc..............   1          1          seq
```

novel-mir-candidate-161

Provisional ID	:	chr10_24605
Score total	:	21.5
Score for star read(s)	:	3.9
Score for read counts	:	18
Score for mfe	:	2.4
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	47
Mature read count	:	42
Loop read count	:	4
Star read count	:	1

Mature Star

```
5'- ggcugccagcgcggagaccucaggcgccugcccguccgcagccagugggacugcggcgcucccgggagcgcggcggggcaggggcgcgcgaggccaggcccggggacccc  -3'   obs
    ggcugccagcgcggagaccucaggcgccugcccguccgcagccagugggacugcggcgcucccgggaggcggcggggcaggggcgcgcgaggccaggcccggggacccc        exp
    ((((.((.(((((((...)).....((.(((((((..((((..((.(.((((.(((...)))))))).))..)))).))))))).))))))))).)))).((((...)).)).. reads     mm        sample
    ..........gcggagaccucGggcgcc.......................................................................................  1         1         seq
    ...................ucaggcgccugcccguccgcU...........................................................................  1         1         seq
    ....................caggcgccugcccguccgA............................................................................  1         1         seq
    ....................caggcgccugcccguccgca...........................................................................  1         0         seq
    ....................caggcgccugcccguccgcag..........................................................................  1         0         seq
    ....................caggcgccugcccguccgcagA.........................................................................  1         1         seq
    ....................caggcgccugcccguccgcagc.........................................................................  25        0         seq
    ....................caggcgccugcccguccgcagU.........................................................................  2         1         seq
    ....................caggcgccugcccguccgcagcA........................................................................  1         1         seq
    ....................caggcgccugcccguccgcagcU........................................................................  5         1         seq
    ....................caggcgccugcccguccgcagcc........................................................................  1         0         seq
    ....................caggcgccugcccguccgcagcAa.......................................................................  1         1         seq
    ........................gccugcccguccgcagccagu.......................................................................  2         0         seq
    ..........................................................cggcggcucccggAaggc.....................................  3         1         seq
    ...........................................................gcggcucccgggaggcgg.....................................  1         0         seq
    ..............................................................gcggcggggcCggggcgc.......................................  1         1         seq
```

novel-mir-candidate-82

Provisional ID	:	chr2_4993
Score total	:	53.5
Score for star read(s)	:	3.9
Score for read counts	:	50.6
Score for mfe	:	1.8
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	111
Mature read count	:	110
Loop read count	:	0
Star read count	:	1

Star Mature

```
5'- gggaaaggggcaaaggaacgccgcgcgcguuggaagggccagggacgcagcucccccuugcagcgcccgcaggaccccccgcaagcucgugccggcgaaaucggagaccgccgaucu  -3'   obs
    gggaaaggggcaaaggaacgccgcgcgcguuggaagggccagggacgcagcucccccuugcagcgcccgcaggaccccccgcaagcucgugccggcgaaaucggagaccgccgaucu        exp
    .(((..((((.....((.(((((((((((...(((((.(((.(((.((.......)).)))))).))).))).))).))))).))))).))...)).....)).)).)..)))   reads   mm   sample
    ................aacgccgcgcguuggaagggccagggacgcagcucccccu.......................................................   1       0    seq
    ...................gccgcgcguuggaagggcc.......................................................................   1       0    seq
    ..............................................agcucccccuugcagcgcccgcaggCccccccgc.................................   1       1    seq
    ...............................................ccuugcagcgcccgcaggaccccccgcaa.................................   1       0    seq
    ....................................................................gaccccccgcaagcucgugccggcg.....................   1       0    seq
    ....................................................................accccccgcaagcucgugccg.........................   1       0    seq
    ....................................................................accccccgcaagcucgugccggA.......................   2       1    seq
    ....................................................................accccccgcaagcucgugccggc.......................   8       0    seq
    ....................................................................Uccccccgcaagcucgugccggcg......................   1       1    seq
    ....................................................................Ccccccgcaagcucgugccggcg.......................   1       1    seq
    ....................................................................acAcccgcaagcucgugccggcg.......................   1       1    seq
    ....................................................................accccccgcaagcucgugcAggcg......................   1       1    seq
    ....................................................................accccccgcaagcucgugccggcg.......................   59      0    seq
    ....................................................................accccccgcaagcucgugccggcgU......................   1       1    seq
    ....................................................................cccccgcaagcucgugccgg..........................   2       0    seq
    ....................................................................cccccgcaagcucgugccggc.........................   4       0    seq
    ....................................................................cccGcgcaagcucgugccggc.........................   1       1    seq
    ....................................................................cccccgcaagcucgugccggcg........................   23      0    seq
    ....................................................................cccccgcaagcucgugccUgcg........................   1       1    seq
    ....................................................................cccccgcaagcucgugccggcgU.......................   1       1    seq
    ....................................................................cccccgcaagcucgugccggcgaaaucggagacc............   1       0    seq
    .....................................................................ccccgcaagcucgugccggcg........................   1       0    seq
    ......................................................................cccgcaagcucgugccggcg........................   1       0    seq
    .......................................................................aagcucgugccggcgaaaucgg.....................   1       0    seq
    ........................................................................agcucgugccggcgaaaucgga....................   3       0    seq
    .........................................................................gcucgugccggcgaaaucgga...................   2       0    seq
    ..........................................................................ucgugccggcgaaaucggagacA................   1       1    seq
```

novel-mir-candidate-363

Provisional ID	:	chr21_43297
Score total	:	1.6
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	1.9
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	248
Mature read count	:	248
Loop read count	:	0
Star read count	:	0

Mature **Star**

```
5'- acacucgcgcacacccccucagugcgccccgggcgggggcugccguccuccgcgacucaagagcgagcgcccccgcucccggcccacccgagcccccucugcguucccc -3'    exp
    ......(((((.....(((.(((.(((..(((((((((((.(((((.((..........)).))).))))))))))).))..))).))).))).....)))))..... reads      mm         sample
    ..............Uccucagugcgccccgggc..................................................................... 1          1          seq
    ..............ccCcagugcgccccgggc..................................................................... 198        1          seq
    ..............ccucagugcgccccgggc..................................................................... 2          0          seq
    ..............ccCcagugcgccccgggcg.................................................................... 14         1          seq
    ..............ccCcagugcgccccgggcgg................................................................... 1          1          seq
    ..............ccCcagugcgccccgggcggg.................................................................. 3          1          seq
    ...............cCcagugcgccccgggcg................................................................... 5          1          seq
    ...............cCcagugcgccccgggcggg................................................................. 3          1          seq
    ................Ccagugcgccccgggcgg.................................................................. 1          1          seq
    ................Ccagugcgccccgggcggg................................................................. 4          1          seq
    .................ucagugcgccccgggcgggU................................................................ 1          1          seq
    .................cagugcgccccgggcggg.................................................................. 8          0          seq
    ..................cagugcgccccgggcgggU................................................................ 5          1          seq
    ..................agugcgccccgggcgggU................................................................ 2          1          seq
```

novel-mir-candidate-140

Provisional ID	:	chr15_33515
Score total	:	29.6
Score for star read(s)	:	3.9
Score for read counts	:	26.1
Score for mfe	:	2.4
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	63
Mature read count	:	62
Loop read count	:	0
Star read count	:	1

Star Mature

```
5'- ccggcgcucggcucccacccgggcgucugagccugcgggcaccugcggccgccggcggacagcgcgucaggucucaccgccgcggcccucgcacuggcucgccgccuc  -3'   obs
    ccggcgcucggcucccacccgggcgucugagccugcgggcaccugcggccgccggcggacagcgcgucaggucucaccgccgcggcccucgcacuggcucgccgccuc         exp
    ..(((((((((.......)))))))))..(((.(.((((((...(((((((((.(((((..((..(....)..))..))))))))))...)))...)))))).).)))   reads   mm   sample
    ...............................................gccgccggcggacagcgcg.......................................   1       0    seq
    ......................................................................agCucucaccgccgcggcccc....................   1       1    seq
    ......................................................................gNucucaccgccgcggcccc....................   1       1    seq
    ......................................................................ggucucaccgccgcggcccc....................   6       0    seq
    ......................................................................gUucucaccgccgcggcccc....................   1       1    seq
    ......................................................................gAucucaccgccgcggcccc....................   2       1    seq
    ......................................................................gCucucaccgccgcggcccu....................   3       1    seq
    ......................................................................Nucucaccgccgcggcccc....................   1       1    seq
    ......................................................................guUucaccgccgcggcccc....................   1       1    seq
    ......................................................................Uucucaccgccgcggcccc....................   2       1    seq
    ......................................................................gucucaccgccgcggcccc....................   13      0    seq
    ......................................................................gucucaccgc6gcggcccc....................   1       1    seq
    ......................................................................Aucucaccgccgcggcccc....................   8       1    seq
    ......................................................................gucucaccgccgcggcccG....................   2       1    seq
    ......................................................................Cucucaccgccgcggcccu....................   1       1    seq
    ......................................................................ucucaccgccgcggcccC....................   4       1    seq
    ......................................................................ucucaccgccgcggcccu....................   11      0    seq
    ......................................................................ucucaccgccgcggcccA....................   2       1    seq
    ......................................................................ucucaccgccgcggcccuU...................   1       1    seq
    ......................................................................cucaccgccgcggcccuU....................   1       1    seq
```

novel-mir-candidate-239

Provisional ID	:	chr1_2097
Score total	:	2.3
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.6
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	47
Mature read count	:	47
Loop read count	:	0
Star read count	:	0

Star Mature

```
5'- caccccagaggagcggaagaggagcccgagccuggccgcgggcugggccccgccgcagcuccagcuggccggcuugguccugcggucccuucucugggaggcccgacccc -3'    exp
    ..(((((((((((.((..(((((..(((((((.(((((((((((((((...)))).)))).)).)).)))))))))))))))).)..))))))))))))).))......... reads      mm         sample
    ...........gaggcggaagaggagcccgagcc.......................................................................... 1          0          seq
    ................................gccuggccgAgggcuggg.......................................................... 1          1          seq
    ...................................uggccgcgggcugggccccg...................................................... 1          0          seq
    ..........................................................gcuggccggcuugguccug............................ 1          0          seq
    ...........................................................................ccggcuugguccugcgguc....................... 2          0          seq
    ...........................................................................ccggcuugguccugcgguU....................... 1          1          seq
    ...........................................................................ccggcuugguccugcggucc...................... 3          0          seq
    ...........................................................................ccggcuugguccugcgguccc..................... 7          0          seq
    ...........................................................................ccggcuugguccugcgguccU..................... 2          1          seq
    ...........................................................................ccggcuugguccugcggucccu.................... 19         0          seq
    ...........................................................................ccggcuugguccugcgguccccG................... 1          1          seq
    ...........................................................................ccggcuugguccugcgguccccCu.................. 1          1          seq
    ...........................................................................ccggcuugguccugcgguccccuu.................. 2          0          seq
    ...........................................................................ccggcuugguccugcgguccAuu................... 1          1          seq
    ...........................................................................ccggcuugguccugcgguccccuuc................. 1          0          seq
    ...........................................................................ccggcuugguccugcgguccccuuU................. 5          1          seq
    ...........................................................................ccggcuugguccugcgguccccuuGu................ 1          1          seq
    ...........................................................................ccggcuugguccugcgguccccuucu................ 1          0          seq
```

novel-mir-candidate-289

Provisional ID	:	chr13_31081
Score total	:	1.9
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.4
Score for randfold	:	-2.2
Score for cons. seed	:	3
Total read count	:	82
Mature read count	:	76
Loop read count	:	0
Star read count	:	6

Mature Star

```
5'- gcgcgggggagaugguaggugggcccggcgucgcgccucugccgucgggguccggggucggggucgggcccccaaggucggcgcaggcggcgcgcuggauguggggaggccgag  -3'   obs
    gcgcgggggagaugguaggugggcccggcgucgcgccucugccgucgggguccggggucggggucgggcccccaggucggcgcaggcggcgcgcuggauguggggaggccgag        exp
    ((((.((.....(((.....(((((((((.(((((((.((((....)))).)))).))).))))))))))...)).)))).(((..(.(((.....))).).)..)))...
    .cgcgggggagaugguaggugggcccgg.....................................................................................
    .......ggagaugguaggugggcccggcgucgc...............................................................................
    ..................guggcccggcgucgccucugc...........................................................................
    ..................guggcccggcgucgccucugA...........................................................................
    ..................guggcccggcgucgccucugcc..........................................................................
    ..................guggcccggcgucgccucugcU..........................................................................
    ..................guggcccggcgucgccucugccU.........................................................................
    ...................uggcccggcgucgccucug............................................................................
    ...................uggcccggcgucgccucugU...........................................................................
    ...................uggcccggcgucgccucugA...........................................................................
    ...................uggcccggcgucgccucugc...........................................................................
    ...................uggcccggcgucgccucugcc..........................................................................
    ...................uggcccggcgucgccucugcG..........................................................................
    ...................uggcccggcgucgccucugcU..........................................................................
    ...................uggcccggcgucgccucugccc.........................................................................
    ...................uggcccggcgucgccucugccU.........................................................................
    ...................uggcccggcgucgccucugcccU........................................................................
    ...................uggcccggcgucgccucugcccguc......................................................................
    ....................ggcccggcgucgccucugccU.........................................................................
    .......................cccggcgucgccucugcc..........................................................................
    .......................cccggcgucgccucugccc.........................................................................
    ........................................gucgggguc gggguUgggg.....................................................
    ........................................gucgggguc Agggucgggguc...................................................
    ..........................................Ccgggguc gggguc gggguc gg..............................................
    ..............................................gucgggguc gggguc gggccc...........................................
    ...............................................gucgggguc gggguc gggcccc..........................................
    ..............................................ucgggguc gggguc gggccU...........................................
    ..............................................ucgggguc gggguc gggccA...........................................
    ...............................................cgggguc gggguc gggcGcc...........................................
```

reads	mm	sample
1	0	seq
1	0	seq
2	0	seq
1	1	seq
3	0	seq
2	1	seq
2	1	seq
1	0	seq
2	1	seq
21	1	seq
11	0	seq
11	0	seq
1	1	seq
1	1	seq
5	0	seq
4	1	seq
4	1	seq
2	0	seq
1	1	seq
1	0	seq
1	0	seq
1	1	seq
1	1	seq
1	1	seq
1	0	seq
2	0	seq
1	1	seq
1	1	seq
1	1	seq

novel-mir-candidate-7

Provisional ID	:	chr2_5335
Score total	:	734.4
Score for star read(s)	:	3.9
Score for read counts	:	727.1
Score for mfe	:	2.4
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	1438
Mature read count	:	1435
Loop read count	:	0
Star read count	:	3

Star Mature

```
5'- ucuagcacgccccacaaacagcagaccgcgauucggcaggcggccgugagugggguuucggucuuucugccccaccggccgccgccgggggagcaggagcugggguggggg  -3'    obs
    ucuagcacgccccacaaacagcagaccgcgauucggcaggcggccgugagugggguuucggucuuucugccccaccggccgccgccgggggagcaggagcugggguggggg         exp
    .........((((((...((((....((((..(((((((.(((((((((...((((((.............))))))))))))))))))..))).)).))))..)))))))    reads      mm         sample
    ucuagcacgccccacaaac.......................................................................................    1          0          seq
    ........gccccacaaacagcagagccgcgau.........................................................................    1          0          seq
    .........ccccacaaacagcagagcc..............................................................................    1          0          seq
    ..................acagcagagccgcgauucg......................................................................    1          0          seq
    ...................agcagagccgcgauucggcaggcggccgugagugggguuucggguU...........................................    1          1          seq
    ........................ccgcgauucggcaggcggccg...............................................................    1          0          seq
    ............................gcgauucggcaggcggccg.............................................................    1          0          seq
    ..............................cgauucggcaggcggccgugagugggg..................................................    1          0          seq
    ...................................ucggcaggcggccgugagugggguuu...............................................    1          0          seq
    ....................................ggcaggcggccgugagug.......................................................    2          0          seq
    ..........................................................................gccGaccggccgccgccgggg...................    1          1          seq
    ...........................................................................cUaccggccgccgccgggg...................    4          1          seq
    ...........................................................................cGaccggccgccgccgggg...................    1393       1          seq
    ...........................................................................cAaccggccgccgccgggg...................    2          1          seq
    ...........................................................................ccaccggccgccgccgggC...................    11         1          seq
    ...........................................................................cGaccggccgccgccggggg..................    4          1          seq
    ............................................................................Gaccggccgccgccggggg..................    1          1          seq
    ...........................................................................caccggccgccgccgggC....................    1          1          seq
    ..............................................................................accggccgccgccgggCa..................    2          1          seq
    ..............................................................................accggccgccgccggggagcaggCgc..........    1          1          seq
    ...............................................................................cggccgccCccggggagc................    16         1          seq
    ..................................................................................gccgccgccggggagcCggagc..........    1          1          seq
    .....................................................................................gccgAggagcaggagcug........    1          1          seq
```

novel-mir-candidate-116

Provisional ID	:	chr19_40834
Score total	:	39.7
Score for star read(s)	:	3.9
Score for read counts	:	36.3
Score for mfe	:	2.3
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	83
Mature read count	:	79
Loop read count	:	3
Star read count	:	1

Star Mature

```
5'- ccgggggccgggggggggcgcgggcgcggggagggggcggugcgcgggggugggcgcggggcgggccgcgggcgcgugggggcggcggcgccaccuuaaggcggcucagc -3'  obs
    ccgggggccgggggggggcgcgggcgcggggagggggcggugcgcgggggugggcgcggggcgggccgcgggcgcgugggggcggcggcgccaccuuaaggcggcucagc      exp
    ....(((((((((.(((((.(.(((.........(((.(((.((.(((.(.(.(....).).).)).)).)).)))))).....))).).).)))))).))))....))))))...  reads  mm  sample
    .cgggggccggggUgggcg.......................................................................................  1      1   seq
    ...ggggccggggAgggcgcg.....................................................................................  1      1   seq
    ......gGcgggggggcgcgggc...................................................................................  2      1   seq
    ........cgggggggcgcgCgcgc.................................................................................  1      1   seq
    ..................gcgggcgcgggagggG........................................................................  1      1   seq
    ........................................cgcgggggugggGgcggg.................................................  1      1   seq
    ........................................cgcgggUgugggcgcggggc...............................................  1      1   seq
    ...................................................cgcggggcgggcGgcgggc.....................................  1      1   seq
    ....................................................cggggcgggccgcgggGg.....................................  1      1   seq
    .....................................................gggcgggcGgcgggcgcg....................................  1      1   seq
    ..........................................................................gCcgcgugggggcggcgg.................  1      1   seq
    ..........................................................................gUcgcgugggggcggcgg.................  1      1   seq
    ..........................................................................gCcgcgugggggcggcggc................  1      1   seq
    ...........................................................................ggcgcguggCggcggcggcg...............  1      1   seq
    ..........................................................................Ucgcgugggggcggcggc.................  1      1   seq
    ...........................................................................Ccgcgugggggcggcggc................  11     1   seq
    ...........................................................................Ccgcgugggggcggcggcg...............  25     1   seq
    ..........................................................................gcgcgCgggggcggcggcg................  3      1   seq
    ...........................................................................gcgcguggCggcggcggcg...............  6      1   seq
    ..........................................................................cgcgugggggcggcggcU.................  1      1   seq
    ..........................................................................cgGugggggcggcggcg..................  1      1   seq
    ...........................................................................cgcguggCggcggcggcg...............  3      1   seq
    ...........................................................................cgcgugggggcggcggcg...............  15     0   seq
    ..........................................................................cAcgugggggcggcggcg.................  1      1   seq
    ...........................................................................cgcgCgggggcggcggcg...............  5      1   seq
    ...........................................................................gcgugggggcggcggcgG...............  3      1   seq
```

novel-mir-candidate-237

Provisional ID	:	chr19_40760
Score total	:	2.3
Score for star read(s)	:	-1.3
Score for read counts	:	0
Score for mfe	:	2.6
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	1189
Mature read count	:	1187
Loop read count	:	2
Star read count	:	0

```
Star                                                                Mature
ggcggcggcggcgcggcgcgcggggcuggcgcgcgcgucuccggcgcgcucccucucccucccgcccgcccccgcuccccucccaccucccccgcg
.......................................................Ccccccgcuccccgccccgc.....................  1   1   seq
.......................................................gccccgcuccccgccccgc.....................  1   0   seq
.......................................................gcccccCcuccccgccccgc.....................  1   1   seq
.......................................................gcccccgcuccccgccccgG.....................  2   1   seq
.......................................................gcccccGuccccgccccgc.....................  1   1   seq
.......................................................ccccgcuccccgccccgG.....................  1   1   seq
.......................................................cGccgcuccccgccccgc.....................  1   1   seq
.......................................................ccccgcuccccgccccgc.....................  2   0   seq
.......................................................uccccgccccgcuccccG.....................  1   1   seq
.......................................................uccccgccccgcuccccGcc...................  2   1   seq
.......................................................uccccgccccgcuccccucc...................  1   0   seq
.......................................................cgccccgcuccccGccca.....................  1   1   seq
.......................................................gccccgcuccccucccCc.....................  5   1   seq
```

```
5'- ggcggcggcggcgcggcgcgcggggcuggcgcgcgcgucuccggcgcgcucccucucccucccgcccgcccccgcuccccucccaccucccccgcg  -3'   exp
    ((.((.((((((.(((((((((((.(((((((.(((((((...)))))))..............)))))).)))))))))))))))))))).....  reads   mm   sample
    .gcggcggcggCcgcggggg.......................................................................  1       1    seq
    ..cggcggcgggcgcggggC......................................................................  1       1    seq
    ..cUgcggcgggcgcgggggg.....................................................................  1       1    seq
    ..cggcggcgggcgcggggggug...................................................................  1       0    seq
    ...................................gcguUuccggcgcgcucccc...................................  1       1    seq
    ...............................................uccccCcucccucccgcc.........................  1       1    seq
    ...............................................cucccucccgccGgcccc.........................  1       1    seq
    ...................................................gcccgcccGgcuccccgcc.....................  1       1    seq
    ..................................................Ccccgccccgcuccccgccccg....................  1       1    seq
    ...................................................cAcgccccgcuccccgcc......................  15      1    seq
    ...................................................cAcgccccgcuccccgccc.....................  11      1    seq
    ...................................................cAcgccccgcuccccgcccc....................  18      1    seq
    ...................................................Acgccccgcuccccgccc......................  130     1    seq
    ...................................................Acgccccgcuccccgcccc.....................  139     1    seq
    ...................................................ccgccccgcuccccgcccc.....................  2       0    seq
    ...................................................ccgccccgcuccccgccccC....................  1       1    seq
    ...................................................cgccccgcuccccgcccU......................  1       1    seq
    ...................................................cgccccgcuccccgccGc......................  1       1    seq
    ...................................................cgccccAcuccccgcccc......................  1       1    seq
    ...................................................cgccccgcuccccAcccc......................  1       1    seq
    ...................................................cgcAccgcuccccgcccc......................  1       1    seq
    ...................................................cgccccgcuccccgcGcc......................  1       1    seq
    ...................................................cgccccgcuccccgcccA......................  1       1    seq
    ...................................................cgccccgcuccccgcccc......................  292     0    seq
    ...................................................cgccccgcuccccgccccg.....................  1       0    seq
    ...................................................cgccccgcuccccgcccCc.....................  552     1    seq
    ...................................................cgccccgcuccccgccccgc....................  2       0    seq
    ...................................................cgccccgcuccccgccccgG....................  1       1    seq
    ...................................................cgccccCcuccccgccccgc....................  1       1    seq
    ...................................................cgccccgcuccccgcccCc.....................  2       1    seq
    ...................................................gcccCcuccccgccccg.......................  1       1    seq
    ...................................................gcccgcuccccCcccccg......................  1       1    seq
    ...................................................Ccccgcuccccgccccg.......................  1       1    seq
    ...................................................gcccgcuccccgccccg.......................  1       0    seq
```

novel-mir-candidate-2

Provisional ID	:	chr3_9926
Score total	:	21836.2
Score for star read(s)	:	3.9
Score for read counts	:	21832.4
Score for mfe	:	2.7
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	42835
Mature read count	:	42832
Loop read count	:	0
Star read count	:	3

```
                                                  Star                 Mature
gugacggcucccgccgggccccgccgccgccccgccgccaggccgcgccgcggggucccgggcccacccgcagcccgggccccgcgcccucccgggccgcgcgcugcggccgg
.......................................................................cNggccccgcgcccuccc.....................   1          1          seq
.......................................................................cAggccccgcgcccuccc.....................   1          1          seq
.......................................................................cgggccccgcgcccuccc.....................   4          0          seq
.......................................................................cCggccccgcgcccuccc.....................   2577       1          seq
.......................................................................cUggccccgcgcccuccc.....................   2          1          seq
.......................................................................cggCccccgcgcccuccc.....................   1          1          seq
```

```
                                                  Star                 Mature
5'- gugacggcucccgccgggccccgccgccgccccgccgccaggccgcgccgcggggucccgggcccacccgcagcccgggccccgcgcccucccgggccgcgcgcugcggccgg  -3'    obs
    gugacggcucccgccgggccccgccgccgccccgccgccaggcccgcgccgcggggucccgggcccaccgcagcccgggccccgcgcccucccgggccgcgcgcugcggccgg         exp
    ....((((....))))((((.(((((.((((.(((....)))).....((((((((((((((.......)))))))))))))).......)))).)))).).)))))..   reads      mm         sample
    ......gcucccgccgggccccgccgccgccccgccgccaggc.......................................................................   1          0          seq
    ........Gcccgccgggccccgccgccgc...................................................................................   1          1          seq
    .........cccgccgggccccgccCc......................................................................................   1          1          seq
    ............gccgggccccgccgccgccccgccgccaggcc.....................................................................   1          0          seq
    .............ccgggcccGgccgccgcc.................................................................................   1          1          seq
    ..............cgUgccccgccgccgccc................................................................................   1          1          seq
    ......................cgccgccgccccCccgcc.........................................................................   1          1          seq
    ..........................ccgccccgccgccGggcc.....................................................................   1          1          seq
    ........................................ccgcgccgcggggucccgggccaU..................................................   2          1          seq
    .........................................ccgcgccgcggggucccgggccacU.................................................   1          1          seq
    ...............................................................caccgcagcUcgggccccg...............................   2          1          seq
    ................................................................accgcagcccgggcccGgc...............................   1          1          seq
    ...................................................................agcccCggccccgcgcccuccc.......................   1          1          seq
    ....................................................................gcccCggccccgcgcccuc.........................   1          1          seq
    ....................................................................gcccCggccccgcgcccucc........................   13         1          seq
    ....................................................................gcccCggccccgcgcccuccc.......................   196        1          seq
    ....................................................................cccAggccccgcgcccuc.........................   1          1          seq
    ....................................................................cccUggccccgcgcccuc.........................   1          1          seq
    ....................................................................cccAggccccgcgcccucc........................   6          1          seq
    ....................................................................cccggCccccgcgcccucc........................   1          1          seq
    ....................................................................cccUggccccgcgcccucc........................   4          1          seq
    ....................................................................cccUggccccgcgcccuccc.......................   18         1          seq
    ....................................................................cccNggccccgcgcccuccc.......................   1          1          seq
    ....................................................................cccgggccccgcgcccuccc.......................   19         0          seq
    ....................................................................cccAggccccgcgcccuccc.......................   11         1          seq
    ....................................................................cccCggccccgcgcccuccc.......................   28687      1          seq
    ....................................................................cccCggccccgcgcccucccg......................   7          1          seq
    ....................................................................ccUggccccgcgcccucc........................   1          1          seq
    ....................................................................ccUggccccgcgcccuccc.......................   9          1          seq
    ....................................................................ccgggccccgcgcccuccc.......................   8          0          seq
    ....................................................................ccCggccccgcgcccuccc.......................   11248      1          seq
    ....................................................................ccAggccccgcgcccuccc.......................   11         1          seq
    ....................................................................ccCggccccgcgcccucccg......................   2          1          seq
```

novel-mir-candidate-108

Provisional ID	:	chr19_40769
Score total	:	43.3
Score for star read(s)	:	3.9
Score for read counts	:	35.8
Score for mfe	:	2.6
Score for randfold	:	1.6
Score for cons. seed	:	-0.6
Total read count	:	82
Mature read count	:	50
Loop read count	:	0
Star read count	:	32

Mature Star

```
5'- gucuucaucggugaguguccccgccggcgcagggcggggcgggcguccuccaggcccucaccgggcgcccgccgcccugugcccgcagugggaccugcugcagaugcuggagaugaa -3'   obs
    gucuucaucggugaguguccccgccggcgcagggcggggcgggcguccuccaggcccucaccgggcgcccgccgcccugugcccgcagugggaccugcugcagaugcuggagaugaa      exp
    (((((((.((.(((((((((((.((((((((((..((((((((((....((......)))))))))))))))))))))))).)).).))))..)))).))..)).))))))...
    ...................ccgccggcgcagggcggggcgggc..................................................................  reads   mm   sample
    ...................ccgccggcgcagggcggggcgggcg.................................................................  4       0    seq
    ...................ccgccggcgcagggcggggcgggcgu................................................................  4       0    seq
    ...................cgccggcgcagggcggggcgggc...................................................................  2       0    seq
    ...................cgccggcgcagggcggggcgggcU..................................................................  1       0    seq
    ...................cgccggcgcagggcggggcgggcUu.................................................................  1       1    seq
    ...................cgccggcgcagggcggggcgggcgu.................................................................  3       0    seq
    ...................cgccggcgcagggcggggcgggcgu.................................................................  1       1    seq
    ...................gccggcgcagggcggggcgggc....................................................................  15      0    seq
    ...................gccggcgcagggcggggcgggcguU.................................................................  1       1    seq
    ...................ccggcgcagggcggggcgg.......................................................................  1       0    seq
    ...................ccggcgcagggcggggcgggc.....................................................................  2       1    seq
    ...................ccggcgcagggcggggcgggcgu...................................................................  1       0    seq
    ...................ccggcgcagggcggggcgggcguU..................................................................  1       0    seq
    ...................ccggcgcagggcggggcgggcguc..................................................................  6       0    seq
    ...................ccggcgcagggcggggcgggcgucU.................................................................  4       1    seq
    ...................cggcgcGgggcggggcggg.......................................................................  1       0    seq
    ...................cggcgcGgggcggggcggg.......................................................................  1       1    seq
    ...................gcgggcguccuccaggcccu......................................................................  1       1    seq
    ...........................cgcccgccgcccugugcccgA...........................................................  1       0    seq
    ...........................cgcccgccgcccugugcccgcU..........................................................  6       1    seq
    ...........................cgcccgccgcccugugcccgcU..........................................................  3       1    seq
    ...........................cgcccgccgcccugugcccgca..........................................................  1       0    seq
    ...........................cgcccgccgcccugugcccgca..........................................................  5       0    seq
    ...........................cgcccgccgcccugugcccgcag.........................................................  4       0    seq
    ...........................cgcccgccgcccugugcccgcagu........................................................  8       0    seq
    ...........................cgcccgccgcccugugcccgcagA........................................................  3       1    seq
    ...........................cgcccgccgcccugugcccgcaguU.......................................................  1       1    seq
    ...........................cgcccgccgcccugugcccgcC..........................................................  1       1    seq
    ...........................Cguggaccugcugcagaugcuggaga.....................................................  1       1    seq
    ...........................cugcugcagCugcuggag.............................................................  1       1    seq
```

novel-mir-candidate-175

Provisional ID	:	chr2_5792
Score total	:	17.8
Score for star read(s)	:	3.9
Score for read counts	:	14.4
Score for mfe	:	2.3
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	40
Mature read count	:	38
Loop read count	:	0
Star read count	:	2

Mature **Star**

```
5'- aacuggggucugucugcggacgggcgccucccuccgcgggcggagggccgcagcgggaacugggguuucggcagcgcccccuuuaaaccagccgcggacgcccggcugcuggc  -3'    obs
    aacuggggucugucugcggacgggcgccucccuccgcgggcggagggccgcagcgggaacugggguuucggcagcgcccccuuuaaaccagccgcggacgcccggcugcuggc          exp
    ...........(((.((((.((((((.....(((((((..((((((.(((.((.(((((...)))))).)).))).)))).....)).. )))))))))))))).)))).)))   reads      mm         sample
    ................cggacgggcgcUuccucc.......................................................................   1          1          seq
    ................cggacgggcgccucccuccgcg...................................................................   1          0          seq
    ................cggacgggcgccucccuccgcgggc................................................................   1          0          seq
    .................ggacgggcgccucccuccgcgggc................................................................   1          0          seq
    ...................acgggcgccucccuccgcgg..................................................................   1          0          seq
    ...................acgggcgccucccuccgcggg.................................................................   3          0          seq
    ...................acgggcgccucccuccgcgggc................................................................   3          0          seq
    ....................cgggcgccucccuccgcggg.................................................................   1          0          seq
    ....................cgggcgccucccuccgcgggc................................................................   26         0          seq
    ....................cgggcgcUuccucccgcgggc................................................................   1          1          seq
    ....................gUgcgccucccuccgcgggc.................................................................   1          1          seq
    .......................ggcgccucccuccgcgggc................................................................   2          0          seq
    ..........................................................................gccgcggacgccGggcugc....   2          1          seq
```

novel-mir-candidate-144

Provisional ID	:	chr1_1012
Score total	:	28.6
Score for star read(s)	:	3.9
Score for read counts	:	25.1
Score for mfe	:	2.4
Score for randfold	:	-2.2
Score for cons. seed	:	-0.6
Total read count	:	61
Mature read count	:	58
Loop read count	:	2
Star read count	:	1

Mature **Star**

```
5'- aacggaagggcugugagcgagcgggcgggcgggugggcuggcagcgaggccaccagcagggggggcccgggccgaggccgcgccaccucggcaccacgcgggcagccgg  -3'   obs
    aacggaagggcugugagcgagcgggcgggcgggugggcuggcagcgaggccaccagcagggggggcccgggccgaggccgcgccaccucggcaccacgcgggcagccgg        exp
    ........(((((((..(((.(..(.((((.((((((((((((..((.((((.((......)).)))))).)))...)))))))..)).)).)).)..).)))..)))))))..   reads    mm    sample
    .acggaagggcugugagcgag.......................................................................................   2        0     seq
    ..............gagcgagcgggcgAgcgg.............................................................................   1        1     seq
    ....................gcgggcgggcgggAggcu.......................................................................   9        1     seq
    ....................gcgggcgggcgggugggcA.....................................................................   1        1     seq
    ....................gcgggcgggcgggCggcu.......................................................................   13       1     seq
    ....................Ucgggcgggcgggugggcu.....................................................................   1        1     seq
    ....................gcgggcgggcgggugggUu.....................................................................   1        1     seq
    ....................Acgggcgggcgggugggcu.....................................................................   1        1     seq
    ....................gcgggcgggcgggugggcu.....................................................................   23       0     seq
    .....................cgggcgggcgggugggcug....................................................................   3        0     seq
    .....................cgggcgggcgggugggcGg....................................................................   4        1     seq
    .....................cgggcgggcgggugggcGgg...................................................................   2        1     seq
    ..........................................cCgcagggggggcccgggc................................................   1        1     seq
    ...............................................................gggccGgggccgaggccg...........................   1        1     seq
    ......................................................................ccgcgccaccucggcaccacgcggg.......   1        0     seq
```