**M1 (ΔG = -82.20)**

\[
\begin{array}{ccccccc}
10 & 20 & 30 & 40 & 50 & 60 \\
C & C & AA & U \\
\end{array}
\]

AUAC UACUCCCUCC GAUCCUAAUUGUGUCUUGGAAUUUAGUAAGUAUG AU UAAG \ 
UGUG AUUGGAGGAG CUAGGUAUUAUUCACAGGAACCUAUAAUUGUULCAUG UG GUUC G 
A U U AG U

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
CUUAUUAUGGAUCUGAGGAG (sequencing frequency: 10)
in the WC library:
CUUAUUAUGGAUCUGAGGAG (sequencing frequency: 6)

**M2 (ΔG = -68.30)**

\[
\begin{array}{ccccccc}
10 & 20 & 30 & 40 \\
A & C & G \\
CCUCAAUC C U AAGGCAUUUAUUGAA GAAAAACCCCC G \\
GGAGAUUAG GAA UUUGUAAAUACUU C UUUUUGGGAC U \\
G C U C \\
\end{array}
\]

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UAAUCACUUCAAGGCAUUUAU (sequencing frequency: 8)
in the WC library:
UAAUCACUUCAAGGCAUUUAU (sequencing frequency: 7)

**M3 (ΔG = -49.80)**

\[
\begin{array}{ccccccc}
10 & 20 & 30 & 40 & 50 & 60 \\
AUCAAAU ACCAAAUA A U \\
UAUUAUUCUCULGUCOCUAUUAAUG UUG UGGAUGU UGUA G \\
UAUAUGAAGGGAGGUGUAUUC UAU AUCAUGCA AUAA C \\
GUAAAGAU GUACAUAG AA U \\
\end{array}
\]

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UUAAUAUGGGACGGGAAAGGU (sequencing frequency: 5)
in the WC library:
UUAAUAUGGGACGGGAAAGGU (sequencing frequency: 9)
### M4 \((\Delta G = -66.00)\)

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</table>

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
- **in the NC library:**
  - UAUUGCCAUUGUCUCAUAC |
  - (sequencing frequency: 3)
- **in the WC library:**
  - UAUUGCCAUUGUCUCAUAC |
  - (sequencing frequency: 24)

### M5 \((\Delta G = -49.70)\)

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<td>UC</td>
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</table>

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
- **in the NC library:**
  - ACUUAUUUGGGCGGAGGA |
  - (sequencing frequency: 8)
- **in the WC library:**
  - ACUUAUUUGGGCGGAGGA |
  - (sequencing frequency: 7)

### M6 \((\Delta G = -106.90)\)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
- **in the NC library:**
  - CCGUAAAUGUAAAGGCGGCU |
  - (sequencing frequency: 8)
in the WC library:
CCUAAUUAAUUGUGCCCGGCU  (sequencing frequency: 7)

M7  \( \Delta G = -90.60 \)
\[
\begin{array}{ccccccc}
10 & 20 & 30 & 40 & 50 \\
U & G & G & CAU \\
\end{array}
\]
\[
\begin{array}{ccccccc}
UUC & GCU&CAG&CUU&UGC & \\
AAG & CGA&GUG&GAA&AGC & G \\
\end{array}
\]
110 100 90 80 70

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:

in the NC library:
AGAAGUGGUGUUUUGAGGGCU  (sequencing frequency: 8)
in the WC library:
AGAAGUGGUGUUUUGAGGGCU  (sequencing frequency: 19)

M8  \( \Delta G = -58.00 \)
\[
\begin{array}{ccccccc}
10 & 20 & 30 & 40 & 50 & 60 & 70 & 80 \\
\end{array}
\]
\[
\begin{array}{ccccccc}
AGC & CA & U & UCACULUG & CGAGCU & UGAAAAAAGUAC & AA & AUAGUAGGCCAAU & GCA & UAU & ACUAU & G \\
UCGUU & A & AGUGA & AGU & UUGAA & AU & UUGUGUGUGUG & CGU & GUA & UCAUGA & A \\
\end{array}
\]
170 160 150 140 130 120 110 100 90

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:

in the NC library:
UUUGACCCGAGUUUAUAGAAAA  (sequencing frequency: 4)
in the WC library:
UUUGACCCGAGUUUAUAGAAAA  (sequencing frequency: 8)

M9  \( \Delta G = -76.72 \)
\[
\begin{array}{ccccccc}
10 & 20 & 30 & 40 & 50 \\
AUU & AUAU & \\
\end{array}
\]
\[
\begin{array}{ccccccc}
UUC&CUC & UAU&UAUGCCAGUGCGUCACAU&AU&CUACAUGGCA & U \\
GAGAGG & GUAGA & UAGCU & AGCCGUGAGUG & AU&AGGAUGUAUCGU & A \\
GAGC & ACAACC \\
\end{array}
\]
100 90 80 70 60

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UGUGAUAGUUGGCAUAGAAU (sequencing frequency: 31)
in the WC library:
UGUGAUAGUUGGCAUAGAAU (sequencing frequency: 45)

M10 \( \Delta G = -45.30 \)

```
10  20  30  40  50  60
GA  U   ACAA  C   A   G   G   G   A   AA
GAUGGU UU AGCA CU CCUC UCC GAAAUAAG GAC UG AUUGUMUA A
CUAUUG AG UGU GA GGAGG AGG UUUGUUC CUG AU UAAAACAUU A
G- U   AACAG A   C   G   A   A   C   CU
120 110 100  90   80   70
```
sRNA (5’ to 3’ orientation) mapped to this predicted precursor hairpin:
in the NC library:
UCACUUUGUUUGGGACGGAGG (sequencing frequency: 6)
in the WC library:
UCACUUUGUUUGGGACGGAGG (sequencing frequency: 6)

M11 \( \Delta G = -48.69 \)

```
10  20  30  40  50  60
UAC G   U   UCUAAM  CC  UG AA
UACUCCCUCG CUG AUUACUG UUGC AUGUAUAUUGU  
AUGAGGGAGGC GGGC UAAUGAAC AUGAUCAAU GA CA
AUC A   U   UACUAU   --  CU  AA
120 110 100  90   80   70
```
sRNA (5’ to 3’ orientation) mapped to this predicted precursor hairpin:
in the NC library:
AGUAUUUCCCAGGACGGAGGAG (sequencing frequency: 7)
in the WC library:
AGUAUUUCCCAGGACGGAGGAG (sequencing frequency: 4)

M12 \( \Delta G = -54.19 \)

```
10  20  30  40  50  60  70
U   C   C   AAAAUG   UA AUAAAUAAU A   UG  UC  UU U  UCG
UAUGUUU UUGGACGGAC UUGA CAA UCUAU  AU UGUGA AUAAAUU N A
AUAAGCAAA GAAUUGGCUUG AAMC GUU  AGUA  UG ACMU UGUUGG EAU UUAAAU GU CA A
```

sRNA (5' to 3’ orientation) mapped to this predicted precursor hairpin:
in the NC library:
UUCUUUGACCGAGCCUUUGAC  (sequencing frequency: 7)
in the WC library:
UUCUUUGACCGAGCCUUUGAC  (sequencing frequency: 39)

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M13  \( (\Delta G = -58.20) \)

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sRNA (5' to 3’ orientation) mapped to this predicted precursor hairpin:
in the NC library:
AGUAUAUGUGUCGGAGGGGG  (sequencing frequency: 32)
in the WC library:
AGUAUAUGUGUCGGAGGGGG  (sequencing frequency: 5)

M14  \( (\Delta G = -47.56) \)

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sRNA (5' to 3’ orientation) mapped to this predicted precursor hairpin:
in the NC library:
AACAAGAAUAUGGAGCGGAG  (sequencing frequency: 5)
in the WC library:
AACAAGAAUAUGGAGCGGAG  (sequencing frequency: 4)

M15  \( (\Delta G = -125.30) \)

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sRNA (5’ to 3’ orientation) mapped to this predicted precursor hairpin:
in the NC library:
UUUUUUGCAAACAGCCGCG  (sequencing frequency: 4)
in the WC library:
UUUUUUGCAAACAGCCGCG  (sequencing frequency: 5)

M16  (ΔG = -57.80)

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sRNA (5’ to 3’ orientation) mapped to this predicted precursor hairpin:
in the NC library:
CUUAUUUGGGCACAGUGAG  (sequencing frequency: 3)
in the WC library:
CUUAUUUGGGCACAGUGAG  (sequencing frequency: 6)

M17  (ΔG = -101.70)

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sRNA (5’ to 3’ orientation) mapped to this predicted precursor hairpin:
in the NC library:
UGAGACCAGGCACAUUGAC  (sequencing frequency: 6)
in the WC library:
UGAGACCAGGCACAUUGAC  (sequencing frequency: 5)

M18  (ΔG = -57.50)

|   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
| 10| 20| 30| 40| 50| 60| 70|
sRNA (5’ to 3’ orientation) mapped to this predicted precursor hairpin:
in the NC library:
AAGAAUUUAAGACGGAGGGA (sequencing frequency: 6)
in the WC library:
AAGAAUUUAAGACGGAGGGA (sequencing frequency: 9)

M19 (ΔG = -58.80)
10 20 30 40
A C
UCCUCUC UCCA AAUAAGUGAU UGAAUUGUAAAU U
AGGGAGG AGGU UUUAUUCACUG ACUUAACCGUGU U
C C U C
80 70 60 50

sRNA (5’ to 3’ orientation) mapped to this predicted precursor hairpin:
in the NC library:
CACUUAUUCUGGAGCGAGGG (sequencing frequency: 7)
in the WC library:
CACUUAUUCUGGAGCGAGGG (sequencing frequency: 13)

M20 (ΔG = -76.30)
10 20 30 40 50 60
A C
ACUCC CA A UCC
CUGUUGGUGG UU UGCUUCACGUUU GAAGCUG GGAAC CC \nGACAAACAGC GAA AGGAUGUGAAA CUCGC A UUUG GG A
G C AAUGG -- -- CAA
. 130 120 80 70

90
AC U U
UGUG GCUUU U
ACAU CGGAA A
CC U A
110 100

sRNA (5’ to 3’ orientation) mapped to this predicted precursor hairpin:
in the NC library:
UGGAUUUCUGCUUCAGCUUUU (sequencing frequency: 4) in the WC library:
UGGAUUUCUGCUUCAGCUUUU (sequencing frequency: 3)

**M21 (ΔG = -71.10)**

10 20 30 40 50 60 70
U— G UG UU C AC G
GAAUCUG GCU GA A UACUCCCUCGUUCCAUAAGAUUGGC UG UUUGAACUA C
CUUAGGU CGG UU U AUGAGGAGGCAAGGUUCLUAACG AC AAACUUGAU U
UGC A GU U— U CA A

120 110 100 90 80 70

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
AAUCUUUGUGGAACGGAGGGA (sequencing frequency: 34)
in the WC library:
AAUCUUUGUGGAACGGAGGGA (sequencing frequency: 17)

**M22 (ΔG = -84.76)**

10 20 30 40 50 60 70
G A A G C C — AGA GCAACUU
GAGUAAACAGCC CU GUCCA AAA UGGAG AAAUGAAMCUUUUGAACAGMUC UC AAC \CUUAAUUGUG GGA CAGGU UUU AGCCU UUUACUGUGAAMCGUAGUGCCUG GG UUG A
G C A A C U GA— ACCCUUC

. 140 130 120 110 100 90 80

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UGGACCAGGGGUGUAUUAAUUU (sequencing frequency: 7)
in the WC library:
UGGACCAGGGGUGUAUUAAUUU (sequencing frequency: 9)

**M23 (ΔG = -118.90)**

10 20 30 40 50 60 70 80 90
A C U U C — UAGCU— U C U C UA UGC
AGUUG GUCAAAMCCUGGU UGACC GC GGAAGGGGU UAMGC CGUCA CU AUGUGAG CGUAUGUCGGAGA CCCAC AGA A
UCAA ACAGUUGACUA ACUGG UG UCUACCCCAA GUGAGG UGCGGU GA UGCCUDG GCUUGACGCU GGUG GGCU U
C A A U C A UACACAGG C C U A — CCC

220 210 200 190 180 170 160 150 140 130 120

110 120
sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UGACCUGCUUGGAUGGUGGUUCU (sequencing frequency: 4)
in the WC library:
UGACCUGCUUGGAUGGUGGUUCU (sequencing frequency: 7)

M24 \( (\Delta G = -61.50) \)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UCAGUGCAUUCUUUGCACAUCCUUGCAGAGAGCGGCCA|
|C  |U  |CGC|
|160|150|140|
in the WC library:
UCAGUGCAUUCUUUGCACAUCCUUGCAGAGAGCGGCCA|
|C  |C  |CGC|
|160|150|140|

M25 \( (\Delta G = -97.60) \)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
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|C  |G|
|160|150|140|130|120|110|
in the WC library:
UCAGUGCAUUCUUUGCACAUCCUUGCAGAGAGCGGCCA|
|C  |G|
|160|150|140|130|120|110|
sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
ACCGGGACGACGACGACUUC  (sequencing frequency: 4)
in the WC library:
ACCGGGACGACGACGACUUC  (sequencing frequency: 4)

M26 \( (\Delta G = -71.70) \)

\[
\begin{array}{ccccccc}
10 & 20 & 30 & 40 & 50 & 60 \\
C & - & UA & A & G \\
AUCCAC & CAA & CUGAAUAUUUAUUAAUAUUGGCAAC & AGCUAUCA & GAUG & A \\
UAGGUG & GUU & GACUUAAGAUUUUAUUUGACUUGUG & UGUAAGU & UGAC & UG \\
& & & & & \\
170 & 160 & 150 & 140 & 80 & 70 \\
& & & & & \\
& & & & & \\
90 & 100 \\
& & & & & \\
GCUUACGGAGGGAG & AAA \\
& & & & & \\
GGA & G \\
& & & & & \\
CCU & G \\
& & & & & \\
UAAAAGAACACACA & GAG \\
130 & 120 & 110 \\
\end{array}
\]

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UAGAUAUUCAGGUUGUGUGGA  (sequencing frequency: 210)
CACCACA CUGAAAUAUUUA  (sequencing frequency: 26)
GAUAUUUCAGGUUGUGUGGA  (sequencing frequency: 1)
UUAGAUAUUCAGGUUGUGUGG  (sequencing frequency: 1)
UUAGAUAUUCAGGUUGUGUG  (sequencing frequency: 1)
in the WC library:
UAGAUAUUCAGGUUGUGUGGA  (sequencing frequency: 358)
CACCACA CUGAAAUAUUUA  (sequencing frequency: 25)
UAUUUCAGGUUGUGUGGAU  (sequencing frequency: 2)
GUAUUUCAGGUUGUGUGGA  (sequencing frequency: 1)

M27 \( (\Delta G = -55.40) \)

\[
\begin{array}{ccccccc}
10 & 20 & 30 & 40 & 50 \\
CU & G & A & A & U & A \\
AUUAUCA & CCUCUGUUCUAAAUAUUCUGUC & UU & UUU & GU & CA \\
UAUAUGAU & GGAGACAAGGAUUAAAGA & CA & AAAA & GU & U \\
& -U & G & C & G & U & U \\
90 & 80 & 70 & 60 \\
\end{array}
\]
sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
AGAAUUUAGGAACAGAGGUAG (sequencing frequency: 7)
in the WC library:
AGAAUUUAGGAACAGAGGUAG (sequencing frequency: 3)

M28 (ΔG = -82.00)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
AGAUGAAGUAAAAGCGGAU (sequencing frequency: 5)
in the WC library:
AGAUGAAGUAAAAGCGGAU (sequencing frequency: 12)

M29 (ΔG = -50.80)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UUGGCGGACAGUAUAGCGGCGGU (sequencing frequency: 8)
in the WC library:
UUGGCGGACAGUAUAGCGGCGGU (sequencing frequency: 5)

M30 (ΔG = -60.92)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
CACUUAUUCGGGACGGAGGG (sequencing frequency: 5)
in the WC library:
CACUUAUUCGGGACGGAGGG (sequencing frequency: 17)

M31 (ΔG = -120.74)

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UUUCGGCUUUCUGGACCGGCU (sequencing frequency: 7)
in the WC library:
UUUCGGCUUUCUGGACCGGCU (sequencing frequency: 19)

M32 (ΔG = -64.40)

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UUACGUGAGUUAAAUCGUCGA (sequencing frequency: 16)
in the WC library:
UUACGUGAGUUAAAUCGUCGA (sequencing frequency: 3)

M33 (ΔG = -74.10)
sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UUAGAAUAGGAGGUCAUG (sequencing frequency: 29)
in the WC library:
UUAGAAUAGGAGGUCAUG (sequencing frequency: 5)

M34  (ΔG = -65.70)

   10  20  30  40  50
GCU - A U GA GA GC
UUUGAGGGU GAG UGUGUU UUUG UGUGUU UGAA UC UG C
AAAUCUCAC  GUG UCUCAGU AAAAC GAGUACUGAC UCUU AG ACC U
AGU G C C -- G -- AC
110 100 90 80 70 60

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
AGAGGUGGCUAGACAGAGUCAA (sequencing frequency: 11)
in the WC library:
AGAGGUGGCUAGACAGAGUCAA (sequencing frequency: 23)

M35  (ΔG = -48.89)

  10  20  30  40
UU C CG AU AC
ACUACU C CCGAUCCAUAAUAGGU UGUG CUAGU \
UGAUGA G GGCUGUUUGUUAUUCACA CAU GAUA A
GG A -- -- AA
 80  70  60  50

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
CACUUAAUGUGGAUCGGAGGG (sequencing frequency: 5)
in the WC library:
CACUUAAUGUGGAUCGGAGGG (sequencing frequency: 4)
M36 ($\Delta G = -75.79$)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UUUUGUUGGUGUAUUGGAUUGG  (sequencing frequency: 12)
in the WC library:
UUUUGUUGGUGUAUUGGAUUGG  (sequencing frequency: 23)

M37 ($\Delta G = -72.20$)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UAGCUAAAUUUGGGAUGUGGC  (sequencing frequency: 7)
in the WC library:
UAGCUAAAUUUGGGAUGUGGC  (sequencing frequency: 6)

M38 ($\Delta G = -52.50$)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UUUGGUUGGAACUAAGAAGGGU  (sequencing frequency: 9)
in the WC library:
UUUGGUUGAACUAAGAAGGGU  (sequencing frequency: 5)

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| UGCAUGGUAAGAUCCGU  ACC UGCAUGGGAU GUCCGAUUU ACAG GAUUCGCUUU GAU |
| AUGCUGCAUCCUAAGCC CGUGCCGUGAUA UUUG AGUGGCCUAU CG AGCCGGAUA UUUG GCUAGCGAAG UULG U |

| U  G   GU  AG  C  C  C  C  AAG  GU  UUU |
| 190 180 170 160 150 140 130 120 110 100 |

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UACAUUGGCAGUUUCCGAUCU  (sequencing frequency: 3)
in the WC library:
UACAUUGGCAGUUUCCGAUCU  (sequencing frequency: 9)

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| CGUCAAAAAUAAGUGACGGAUUUG AUG  A |
| GCAGGGUUUAUUCUGACCCUAAAC UAU  U |
| A   CUAAACA |
| 80  70  60  50 |

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
CACGUCACUUAUUUUGGACG  (sequencing frequency: 4)
in the WC library:
CACGUCACUUAUUUUGGACG  (sequencing frequency: 3)

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| UCUGUCCCAAAAUGUAGGGCG  AC UEU  AGUUC  AAAUGAUG  UAG ACEUUGUACACAGCAG |
| UCCGUA UGUUC AAGAU UGUAGAAUUUUGUAGGGCG  AGGUU  UCCU UAAU  ACU  A |
| 250 240 230 220 210 200 190 180 170 160 150 140 130 |

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UCUGUCCCAAAAUGUAGGGCG  (sequencing frequency: 4)
in the WC library:
UCUGUUCCAAAUUGUAGGGCG  (sequencing frequency: 15)

M42  (ΔG = -68.60)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:

in the NC library:
GUAAACGGAAGAAGUGCUUUU  (sequencing frequency: 21)
in the WC library:
GUAAACGGAAGAAGUGCUUUU  (sequencing frequency: 9)

M43  (ΔG = -43.90)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:

in the NC library:
AAUAUGGGUAUGCUGCGUGGA  (sequencing frequency: 6)
in the WC library:
AAUAUGGGUAUGCUGCGUGGA  (sequencing frequency: 7)

M44  (ΔG = -51.30)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UUAGGUAUUUCAGGUAGGUG (sequencing frequency: 103)
UAGCCUAAAAUAIUUUAAAUAA (sequencing frequency: 14)
UUAGGUAUUUCAGGUAGGUG (sequencing frequency: 1)
UAGGUAUUUCAGGUAGGUG (sequencing frequency: 1)

in the WC library:
UUAGGUAUUUCAGGUAGGUG (sequencing frequency: 131)
UUAGGUAUUUCAGGUAGGUG (sequencing frequency: 1)

**M45 (ΔG = -120.78)**

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
AUUUUGGAUAAGAGGGAGUAC (sequencing frequency: 4)
in the WC library:
AUUUUGGAUAAGAGGGAGUAC (sequencing frequency: 7)

**M46 (ΔG = -146.60)**

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UCGGUCAGUAUGGCAUGUGAC (sequencing frequency: 26)
in the WC library:
UCGGUCAGUAUGGCAUGUGAC (sequencing frequency: 31)
M47 \( (\Delta G = -39.20) \)

\[ \begin{array}{c}
10 & 20 \\
GA & AC & AU \\
UGCAUGU & UCUCCCCAAC & CGG \\
AGUACG & GGAGGGGUG & GUC U \\
G- & -- & AA \\
90 & 80 & 30 \\
40 & 50 \\
UAAUCA & - & A AU \\
UG & AGUACU & CU & U \\
AC & UCAUGA & GA & A \\
CUAUCA & A & - & AU \\
70 & 60 \\
\end{array} \]

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UGCAUGUACUCUCCCCAAC \( \text{(sequencing frequency: 19)} \)
in the WC library:
UGCAUGUACUCUCCCCAAC \( \text{(sequencing frequency: 40)} \)

M48 \( (\Delta G = -98.40) \)

\[ \begin{array}{c}
10 & 20 & 30 \\
G & C & AG \\
UCAUCAGUGACGGCGUGGUA & UACGUGCC & CACUGAUG & G \\
AGUAGUCAUGCCGCAUCGUGGGGGG & GUGACCUAC & G \\
G & A & UU \\
70 & 60 & 50 & 40 \\
\end{array} \]

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UCAUCAGUGACGGCGUGGUA \( \text{(sequencing frequency: 5)} \)
in the WC library:
UCAUCAGUGACGGCGUGGUA \( \text{(sequencing frequency: 9)} \)

M49 \( (\Delta G = -112.00) \)

\[ \begin{array}{c}
10 & 20 & 30 & 40 & 50 & 60 \\
A & CAGGCAG \\
GGGCCCACUGCAUGGCGAGGGUCUGGCUUGCUCAUCUACAGAAACUUGCA & A \\
CCCGGGUGUGCAUGUGCGUGCACCGCACGCUUAAGAUGUCAUGUGAG & A \\
180 & 170 & 160 & 150 & 70 \\
\end{array} \]
sRNA (5’ to 3’ orientation) mapped to this predicted precursor hairpin:
in the NC library:
UGUAAGAUUGCAACGCCACGU (sequencing frequency: 11)
in the WC library:
UGUAAGAUUGCAACGCCACGU (sequencing frequency: 4)

\[ \text{M50 (AG = -66.80)} \]

\[
\begin{array}{cccc}
10 & 20 & 30 & 40 \\
\text{C} & \text{U} & \text{AG} \\
\text{GUACUCUCUGUCUCACAAAUAGUGA GUGGAAUUUAIA A} \\
\text{CAUGAGGGAGCCAGGGUUUUGUCACU CACCUCACAAUUA A} \\
& \text{A} & \text{U} & \text{CU}
\end{array}
\]

sRNA (5’ to 3’ orientation) mapped to this predicted precursor hairpin:
in the NC library:
ACUUGUUUUGGGACGGAGGGA (sequencing frequency: 22)
in the WC library:
ACUUGUUUUGGGACGGAGGGA (sequencing frequency: 4)

\[ \text{M51 (AG = -37.50)} \]

\[
\begin{array}{cccc}
10 & 20 & 30 & 40 \\
\text{C} & \text{U} & \text{CGCUCUGGGG A UAG- G} \\
\text{GUACUCUCU CGAUCC UAAAAAUGUC UC CU UACAA A} \\
\text{CAUGAGGGGA GUGGCAUUUUUACG AG GA AUGUU A} \\
& \text{A} & \text{U} & \text{CAAAAUAAU UACA U}
\end{array}
\]

sRNA (5’ to 3’ orientation) mapped to this predicted precursor hairpin:
in the NC library:
UUUAUGGAUUGAAGGGAGUAC (sequencing frequency: 11)
in the WC library:
UUUAUGGAUUGAAGGGAGUAC (sequencing frequency: 24)
M52 (ΔG = -61.90)

```
10  20  30  40
U  A  C  G
ACUACG AUAAG UGAUCAUACUGUUC ACUUUUU A
UGAUGC UAULC ACUAUGAUUGACAAAG UGAAAG A
  C  G  C  G
80  70  60  50
```

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UGUAUGAUCAGCUUUCAUCCGU
(sequencing frequency: 8)
in the WC library:
UGUAUGAUCAGCUUUCAUCCGU
(sequencing frequency: 5)

M53 (ΔG = -100.10)

```
10  20  30  40
-  U  AA  A  A
AC  CCC  CCGUUCAUUAUUAAUUGGCGG C UUUA UACA A
UG  GGG  GGCAGGUAUAUAUACCGUGC A AUAU AUGU U
  A  U  CA  C  U
70  60  50
```

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UUUAUAUGGAACGGUGGGAGU
(sequencing frequency: 4)
in the WC library:
UUUAUAUGGAACGGUGGGAGU
(sequencing frequency: 5)

M54 (ΔG = -138.6)

```
10  20  30  40  50
DA  U  UA  A  AACA  CC
CGUGUUCGUGCA  CAGU  GAGG  UG  ACGGCCGC  GC  C
CGNUUGUACCGGU  CUGA  CUGG  GC  ACGGCAGGG  GC  U
  U  C  CC  C  UACA  --
270  260  250  240  230  220  200  190
```

70  80  90  100
sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
CGGGCCAUAGAGAUUGAGGGU  (sequencing frequency: 3)
in the WC library:
CGGGCCAUAGAGAUUGAGGGU  (sequencing frequency: 7)

M55  (ΔG = -119.30)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UGUGUAACGGAGAGAAGUGCU  (sequencing frequency: 43)
in the WC library:
UGUGUAACGGAGAGAAGUGCU  (sequencing frequency: 21)

M56  (ΔG = -68.70)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UGUUCAUACGGUGAUGAUCAC  (sequencing frequency: 3)
in the WC library:
UGUUCAUACGGUGAUGAUCAC  (sequencing frequency: 22)
**M57 \( (\Delta G = -52.60) \)**

\[
\begin{array}{cccccc}
10 & 20 & 30 & 40 & 50 \\
10 & 20 & 30 & 40 & 50 \\
G & AAA & AU & UCA \\
CC & UCCAACCUUCUAAUGUACGAAAUUGAUU & UUUUA & CACA & \\
GG & AGGUUGGGAGGAAUGAGUU & UUUGUCAUGAU & AAAU & GUGU & 6 \\
& C--- & --- & UUU \\
100 & 90 & 80 & 70 & 60
\end{array}
\]

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:

in the NC library:

UUGAGCUAAAGGAGUUUGGAG (sequencing frequency: 37)

in the WC library:

UUGAGCUAAAGGAGUUUGGAG (sequencing frequency: 6)

**M58 \( (\Delta G = -58.80) \)**

\[
\begin{array}{ccccccc}
10 & 20 & 30 & 40 & \\
C & ACC & -- & C & U \\
UACU & CC & GAUCCAU & AUAAGUGUCGGGAAUUUMGACAA & UUG & \\
AUGA & GG & CUAGGA & UAUUAACGCCCCUAAUACGUGU & AAA & A \\
& U & ACA & U^- & C & C \\
90 & 80 & 70 & 60 & 50
\end{array}
\]

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:

in the NC library:

GAUCCAUUAUAAGUGUCGGGGA (sequencing frequency: 7)

in the WC library:

GAUCCAUUAUAAGUGUCGGGGA (sequencing frequency: 6)

**M59 \( (\Delta G = -68.90) \)**

\[
\begin{array}{cccccc}
10 & 20 & 30 & 40 & \\
A & A & GGGG & A & GUG \\
CUGAUAGUGC & UU & AAGACCAUUU & AGAUAC & UUA & \\
GACUAUAGUC & AA & UUCUGGAAA & UCUAUG & GGU & A \\
& G & C & ACOCG & A & ACA \\
80 & 70 & 60 & 50
\end{array}
\]

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:

in the NC library:

UGGUCUUCAAAGGCAUGUALCA (sequencing frequency: 13)

in the WC library:

UGGUCUUCAAAGGCAUGUALCA (sequencing frequency: 9)
M60 (ΔG = -57.50)

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<td>A</td>
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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:

in the NC library:

UUUAUGCCCAUAAGAUUGUGUA (sequencing frequency: 10)

in Uhe WC library:

UUUALGCCCAUAAGAUUGUGUA (sequencing frequency: 34)

UAAAAACAGUCUUUAUUGGCAUA (sequencing frequency: 4)

M61 (ΔG = -44.50)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:

in the NC library:

AGAAUUUAGGAUCUGAGGGAG (sequencing frequency: 7)

in the WC library:

AGAAUUUAGGAUCUGAGGGAG (sequencing frequency: 5)

M62 (ΔG = -79.30)

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CUUGA  GG
AAUAUUGAAU  C
UUUAUAACUUA  A
UGUGGA  AA
| 110 | 100 |

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UUUGUGAU/CUUGAAGGCAAU  (sequencing frequency: 4)
in the WC library:
UUUGUGAU/CUUGAAGGCAAU  (sequencing frequency: 7)

M63 ($\Delta G = -54.40$)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
AGUAUAGGGGUCCGAGGGAG  (sequencing frequency: 16)
in the WC library:
AGUAUAGGGGUCCGAGGGAG  (sequencing frequency: 9)

M64 ($\Delta G = -51.40$)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
AACACUUUUUAUGGACCGGAG  (sequencing frequency: 4)
in the WC library:
AACACUUUUUAUGGACCGGAG  (sequencing frequency: 8)
### M65 \( (\Delta G = -39.20) \)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:

*in the NC library:*

AAGAAUUUAGGAUGGGAGGA  (sequencing frequency: 36)

*in the WC library:*

AAGAAUUUAGGAUGGGAGGA  (sequencing frequency: 6)

### M66 \( (\Delta G = -75.44) \)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:

*in the NC library:*

AGCGACACUUGUUAUGGAUCG  (sequencing frequency: 3)

*in the WC library:*

AGCGACACUUGUUAUGGAUCG  (sequencing frequency: 6)

### M67 \( (\Delta G = -79.00) \)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
GUCAUCAGUGACGGCGAGCA (sequencing frequency: 5)
in the WC library:
GUCAUCAGUGACGGCGAGCA (sequencing frequency: 7)

M68 ($\Delta G = -69.60$)

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M69 ($\Delta G = -126.60$)

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M70 ($\Delta G = -57.10$)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UGGAUCUAACGUGUGGUGC (sequencing frequency: 12)
in the WC library:
UGGAUCUAACGUGUGGUGC (sequencing frequency: 8)
sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
GUUCAAUAAAGCGUGGGAAA (sequencing frequency: 10)
in the WC library:
GUUCAAUAAAGCGUGGGAAA (sequencing frequency: 5)

M71 (ΔG = -86.50)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UAGAUCUUUAAUAACGGAUG (sequencing frequency: 4)
in the WC library:
UAGAUCUUUAAUAACGGAUG (sequencing frequency: 22)

M72 (ΔG = -67.30)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UGAGAAUUGAACUAAGAAACGG (sequencing frequency: 5)
in the WC library:
UGAGAAUUGAACUAAGAAACGG (sequencing frequency: 4)
M73 ($\Delta G = -58.50$)

$$
\begin{array}{cccccc}
A & C & U & C & U & U
\end{array}
$$

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
- in the NC library:
  - UGUAGAUACUCCCUAGGCUU (sequencing frequency: 677)
  - CUUAGAGAGUAUCACUAGGU (sequencing frequency: 36)
- in the WC library:
  - UGUAGAUACUCCCUAGGCUU (sequencing frequency: 456)
  - GUAGAUACUCCCUAGGCUU (sequencing frequency: 1)

M74 ($\Delta G = -59.04$)

$$
\begin{array}{cccccccccc}
\end{array}
$$

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
- in the NC library:
  - UCUCGUUAUGCGGAUGUACC (sequencing frequency: 13)
- in the WC library:
  - UCUCGUUAUGCGGAUGUACC (sequencing frequency: 19)

M75 ($\Delta G = -111.50$)

$$
\begin{array}{ccccccccccc}
C & U & A & A & U & C & C & C & U & A
\end{array}
$$

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
- in the NC library:
AGGACC GGUGAAGGGGCGGA (sequencing frequency: 30)
in the WC library:
AGGACC GGUGAAGGGGCGGA (sequencing frequency: 57)

**M76 (ΔG = -68.20)**

\[
\begin{array}{cccccc}
10 & 20 & 30 & 40 \\
A & C & AG \\
UACUCUCUCGGUCCCA & AUAGUGA & GUGAULUGUUA & A \\
AUGAGAGGGAGGGGUU & UAUCACU & CACCUCACAU & A \\
& A & U & CU \\
80 & 70 & 60 & 50 & 40
\end{array}
\]

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
ACUUAUAUUGGGACGGAGAGA (sequencing frequency: 5)
in the WC library:
ACUUAUAUUGGGACGGAGAGA (sequencing frequency: 6)

**M77 (ΔG = -59.60)**

\[
\begin{array}{cccccc}
10 & 20 & 30 & 40 & 50 \\
C & C & G & C & UCC \\
CACU & UGACAU & UUGG & CACUGA & CUGG & A \\
GUGA & ACUAGU & ACGG & GCGGGCAA & UGACUGU & CACC & U \\
90 & 80 & 70 & 60 & 50 & 40
\end{array}
\]

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
AGGGCGAGGCAAAUGAUCAAA (sequencing frequency: 33)
in the WC library:
AGGGCGAGGCAAAUGAUCAAA (sequencing frequency: 6)

**M78 (ΔG = -69.10)**

\[
\begin{array}{cccccc}
10 & 20 & 30 & 40 & 50 \\
A & U & A & A & AG \\
CUCUAAAAG & AUUC & CCC & UUUACACUGAAG, CGG & GA & C \\
GAGAUUUUC & UGAAG & GGG & AAMUGUGA & CUC & GCC & CU & A
\end{array}
\]
sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UGUGUAAAACGGGUGAAGUGCU (sequencing frequency: 17)
in the WC library:
UGUGUAAAACGGGUGAAGUGCU (sequencing frequency: 13)

**M79 (ΔG = -110.30)**

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UUGUUCGUACUAAGGAGGAGCUU (sequencing frequency: 15)
in the WC library:
UUGGCGGUUCUAAGGAGGGGC (sequencing frequency: 3)

**M80 (ΔG = -82.20)**

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UUGAACUAAGAGGGGUGGAG (sequencing frequency: 8)
in the WC library:
UUGAACUAAGAGGGGUGGAG (sequencing frequency: 5)
M81

super_1:16079568-16079588  \( (\Delta G = -56.50) \)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:

in the NC library:

UUUGAACUAAGAAGGGUCAAA  (sequencing frequency: 43)

in the WC library:

UUUGAACUAAGAAGGGUCAAA  (sequencing frequency: 5)

---

super_3:15856277-15856297  \( (\Delta G = -66.70) \)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:

in the NC library:

UUUGAACUAAGAAGGGUCAAA  (sequencing frequency: 43)

in the WC library:

UUUGAACUAAGAAGGGUCAAA  (sequencing frequency: 5)

---

super_7:14469193-14469213  \( (\Delta G = -75.70) \)

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130 120 110 100 90 80 70
sRNA (5’ to 3’ orientation) mapped to this predicted precursor hairpin:
in the NC library:
UUUGACUAGAAGGGUCAAA (sequencing frequency: 43)
in the WC library:
UUUGACUAGAAGGGUCAAA (sequencing frequency: 5)

M82 (ΔG = -44.10)

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sRNA (5’ to 3’ orientation) mapped to this predicted precursor hairpin:
in the NC library:
UUGAAACUAGAAGGGUCAAA (sequencing frequency: 9)
in the WC library:
UUGAAACUAGAAGGGUCAAA (sequencing frequency: 8)

M83 (ΔG = -79.53)

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sRNA (5’ to 3’ orientation) mapped to this predicted precursor hairpin:
in the NC library:
CUAAAGAGUGUUGAGGGUAC (sequencing frequency: 10)
in the WC library:
CUAAAGAGUGUUGAGGGUAC (sequencing frequency: 4)

M84 (ΔG = -60.30)

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sRNA (5’ to 3’ orientation) mapped to this predicted precursor hairpin:
in the NC library:
UAUAUAUUGGAACAGAGGUAG (sequencing frequency: 5)
in the WC library:
UAUAUAUUGGAACAGAGGUAG (sequencing frequency: 6)

M85 (ΔG = -53.90)

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sRNA (5’ to 3’ orientation) mapped to this predicted precursor hairpin:
in the NC library:
CACUUAUAUUCGAUUCGAAGGG (sequencing frequency: 4)
in the WC library:
CACUUAUAUUCGAUUCGAAGGG (sequencing frequency: 7)

M86 (ΔG = -108.70)

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sRNA (5’ to 3’ orientation) mapped to this predicted precursor hairpin:
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AAAAUCGAGUAGCAGCAGCGCUUG (sequencing frequency: 144)
AAAAUCGAGUAGCAGCAGCGCUUG (sequencing frequency: 1)
in the WC library:
AAAAUCGAGUAGCAGCAGCGCUUG (sequencing frequency: 28)

M87 (ΔG = -60.90)

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AGGCAGGGUUGU UUUCACAGA AAAC UUUAAA UACGUAGAU UUGU U

110 100 90 80 70 60

sRNA (5’ to 3’ orientation) mapped to this predicted precursor hairpin:
in the NC library:
AGACALCUUUGUUGAAGCGGA (sequencing frequency: 3)
in the WC library:
AGACALCUUUGUUGAAGCGGA (sequencing frequency: 8)

M88 (\(\Delta G = -47.36\))

10 20 30 40
UU A— U GAC
CG UGUAUU GUACCCUCCGCUCCCAAUU UAAAGU \
GU GUUAUU CAUGAGGGAGCGCGUAUG GUUAU U
UU CAA — AAC
120 110 100 50
60 70
CCCAAA AUUCAAUU
UGGAUGU \
AUUGGGG C
UACAUA AAAAACC
90 80

sRNA (5’ to 3’ orientation) mapped to this predicted precursor hairpin:
in the NC library:
UGGGACOGAGGCGGUUAAACA (sequencing frequency: 8)
in the WC library:
UGGGACOGAGGCGGUUAAACA (sequencing frequency: 5)

M89 (\(\Delta G = -46.60\))

10 20 30 40
C AAAG— C CU UA
GUACUCCUC GAUCUAAG UGU GC AUU U
CAUGAGGGAG CUCGUAAU ACA UG UGAA A
A GUUAA — AU UC
90 80 70 60 50

sRNA (5’ to 3’ orientation) mapped to this predicted precursor hairpin:
in the NC library:
GUUAUOGAGUACAGGAGGAGUAC (sequencing frequency: 4)
in the WC library:
GUUAUOGAUCAGAGGAGUAC (sequencing frequency: 4)

**M90** \( (\Delta G = -55.24) \)

```
10  20  30  40
-  C  U  CCAA  A
UACUCUCU GACCGUAUUAC UGUC AUUAGUACA A
AUGAGGGAG CUGGUAUAAUG ACAG UAAUCAGUG G
U  A  C  CGAC  U
80  70  60  50
```
sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
AAUAUGGGUCAGAGGAGUAU (sequencing frequency: 5)
in the WC library:
AAUAUGGGUCAGAGGAGUAU (sequencing frequency: 11)

**M91** \( (\Delta G = -38.20) \)

```
10  20  30
A  --  U  G
UUU  CUCCUCGGUCUAAUAUA  AUA  GUAC \ AAA  GAGGGAGCCAGUAUAU  UAU  CAUG G
C  CA  U  A
70  60  50  40
```
sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
ACUUAUUGGACCCGGAGGA (sequencing frequency: 24)
in the WC library:
ACUUAUUGGACCCGGAGGA (sequencing frequency: 3)

**M92** \( (\Delta G = -55.50) \)

```
10  20  30  40  50  60
C  U  C  G  C  -  A  ACCC  CAAU
ACUC  CUCUGAUCAUAAU  ACUG  CACA  CUUUGU  UAG  AUUAUGG  UGU  ACA  G
UGAG  GACGGUAUAU  UGAAC  GGU  GAAAAC  AUC  UGUAGC  AUA  UGU  A
C  -  A  G  C  A  C  GAUC  CCAA
120  110  100  90  80  70
```
sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UGUGACAAGUAUAUGGAUCGG (sequencing frequency: 6)
in the WC library:
UGUGACAAGUAUAUGGAUCGG (sequencing frequency: 7)

M93 ($\Delta G = -74.70$)

M94 ($\Delta G = -47.10$)

M95 ($\Delta G = -99.60$)

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
AAAAUCGAGUAGCAGUCCGCG (sequencing frequency: 41)
CUGACAUUGUAGUCGAUUUUC (sequencing frequency: 3)
AUGCAGUAGCAGUCCGCGGUC (sequencing frequency: 1)
in the WC library:
AAAAUCGAGUAGCAGUCCGCG (sequencing frequency: 5)

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UGUA GA UA CUCUCUAA GGCUU (sequencing frequency: 28)
in the WC library:
UGUA GA UA CUCUCUAA GGCUU (sequencing frequency: 5)
sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
AUCUUGGGCUCUAGGUAGGUU  (sequencing frequency: 25)
in the WC library:
AUCUUGGGCUCUAGGUAGGUU  (sequencing frequency: 5)

M96
super_277:408-428  \(\Delta G = -60.20\)

\[
\begin{array}{cccc}
10 & 20 & 30 & 40 \\
A & A & A & \\
UACUCCUCGGUCUCCUAUUGC & UUUAGUCA & A & \\
AUGAGGGAGCCAGGGAUUAAGAAC & AC & AAAUCAGU & U & \\
& C & C & U & \\
80 & 70 & 60 & 50 & \\
\end{array}
\]

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
AAGAAULUUAAGGACGGAGGA  (sequencing frequency: 35)
in the WC library:
AAGAAULUUAAGGACGGAGGA  (sequencing frequency: 4)

super_2:20949532-20949552  \(\Delta G = -39.60\)

\[
\begin{array}{cccc}
10 & 20 & 30 & 40 \\
G & C & CG & GA & U & U & A & \\
GUAAUUCUCGCUUCCUAUUCU & U & UUUAGUCA & A & \\
CAUGAGGGAG CAGGGAUUA GAACA & G & AAA UCA & GU & U & \\
& G & A & AU & GC & U & U & U & \\
80 & 70 & 60 & 50 & \\
\end{array}
\]

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
AAGAAULUUAAGGACGGAGGA  (sequencing frequency: 35)
in the WC library:
AAGAAULUUAAGGACGGAGGA  (sequencing frequency: 4)

M97  \(\Delta G = -64.70\)

\[
\begin{array}{cccc}
10 & 20 & 30 & 40 \\
- & U & A & UC & U & U & \\
UUGUGAAUGUUUG GGGGAACUC & UG & UG & ACCAAGC & UCUA & U & \\
AGCACUCACGAAC UCCCCUGAG & AC & AU & UGGUUUG & AGAU & A & \\
\end{array}
\]
sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
GUUCCGUGCAAGCAGACUUCACG (sequencing frequency: 16)
UGAAGUGUUUGGGGAACUGC (sequencing frequency: 2)
in the WC library:
GUUCCGUGCAAGCAGACUUCACG (sequencing frequency: 7)

M98 ($\Delta G = -158.30$)

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UCACCGAACCUGUUUGGACUA (sequencing frequency: 10)
in the WC library:
UCACCGAACCUGUUUGGACUA (sequencing frequency: 9)

M99 ($\Delta G = -110.10$)
sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UGAACAUGUACUGUAGCCA (sequencing frequency: 5)
in the WC library:
UGAACAUGUACUGUAGCCA (sequencing frequency: 9)

**M100 (ΔG = -47.73)**

```
10  20  30  40  50
C G — ACU ACCCCUC UUGA
UCCGAAUAACCC AGAGUCCAC UUCU AAA GAG UUGG CUG UCC
UGGCUUUUUUGG CGUAGGGU AGGA UAUUU UGGC AGG A
A — GC GCAC GCACUA CUU
110 100  90  80  70  60
```

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UGGACUGCAGGGUUUAUUUCGG (sequencing frequency: 4)
in the WC library:
UGGACUGCAGGGUUUAUUUCGG (sequencing frequency: 23)

**M101 (ΔG = -109.5)**

```
10  20  30  40  50  60  70  80  90
U C C U C A — GGC G ACG C C C CUU
UAUA AGGG UGGCCUUUUGCUUU GGGAU UG GG AAUGU GGGG UGAC GGGCAAMCCLIUCCA GAUG GUCA \
AAUUU UCCCC AGGGAGAGAGAGGA CCCUA AC CC UUGACA GUUGG ACUG CGGGUUGCAGGGUULU CLAC CAG C
C A A C — AC GUA A AAA A A A AUGA
180 170 160 150 140 130 120 110 100
```

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
AGGAGCGAGACGGUAAGCCCU (sequencing frequency: 17)
in the WC library:
AGGAGCGAGACGGUAAGCCCU (sequencing frequency: 31)
### M102 (ΔG = -50.10)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:

- in the NC library: AGAAUUUAGGGAAGGAGGAU (sequencing frequency: 37)
- in the WC library: AGAAUUUAGGGAAGGAGGAU (sequencing frequency: 7)

### M103 (ΔG = -62.60)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:

- in the NC library: UUAUUAUGGACCAGGGAGGAGU (sequencing frequency: 6)
- in the WC library: UUAUUAUGGACCAGGGAGGAGU (sequencing frequency: 7)

### M104 (ΔG = -89.70)

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- CAGCCCACAA | A | C |
- CGGC | GGG | UC | E |
- GCCG | CCC | GG | G |
| CCCAAG | - | G |
sRNA (5’ to 3’ orientation) mapped to this predicted precursor hairpin:
in the NC library:
UCGAGUAGCAGCCCGGUCC  (sequencing frequency: 13)
in the WC library:
UCGAGUAGCAGCCCGGUCC  (sequencing frequency: 4)

M105 ($\Delta G = -94.50$)

```
10  20  30  40  50
 A  UG  AU
UUGCAGAAGAGGGGUUC  GAGAAGUGAG  \  
AACGCUUCUCUCUUUUUU  ACUUUCCAAGAG  UUCUUCUCUC  G  G  G  G  GU  CA  
```

sRNA (5’ to 3’ orientation) mapped to this predicted precursor hairpin:
in the NC library:
GGAGGAGAAAAUGGAGGGUUC  (sequencing frequency: 8)
in the WC library:
GGAGGAGAAAAUGGAGGGUUC  (sequencing frequency: 5)

M106 ($\Delta G = -85.82$)

```
10  20  30  40  50  60  70  80  90  100
 ACAGCU  UC  C  C  C  CCU  AUUA  AGU  G  CA  -  AAGGAA
UUGCGUUCAGGCGCGCA  CCUA  CA  CGCUUUGU  GCUUUC  CAGA  UC  AC  EG  GACU  G
UUGCGA  AAGGAGUUGCGCG  GGUA  GE  GGUUACG  GCA  UGGAUG  GUACU  AG  EG  AC  UGGA  A
U  UGGAGU  UG  C  U  AGUC  GUAU  ---  G  UAC  G  AAGGAA
```

sRNA (5’ to 3’ orientation) mapped to this predicted precursor hairpin:
in the NC library:
UUUUGCUCUAAGACCGCGCAAC  (sequencing frequency: 66)
UUUUGCUCUAAGACCGCGCAAC  (sequencing frequency: 1)
in the WC library:
UUUUGCUCUAAGACCGCGCAAC  (sequencing frequency: 44)
UGCUCAAGACCGCGCAAC  (sequencing frequency: 1)

M107 ($\Delta G = -57.60$)

```
10  20  30  40
 G  G  G  ACU  AG  U  G
```

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UGACAGGGGAGAACUGCACUG  (sequencing frequency: 6)
in the WC library:
UGACAGGGGAGAACUGCACUG  (sequencing frequency: 4)

M108  (ΔG = -88.50)

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
CGCGCUCCUCCCGUCAACGUG  (sequencing frequency: 6)
in the WC library:
CGCGCUCCUCCCGUCAACGUG  (sequencing frequency: 6)

M109  (ΔG = -60.20)

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
ACUUAAUAUGAAUCGGAGGGG  (sequencing frequency: 5)
in the WC library:
ACUUAAUAUGAAUCGGAGGGG  (sequencing frequency: 8)

M110  (ΔG = -47.04)
sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UGAAAAUUGCAAAUAGGCCCA (sequencing frequency: 6)
in the WC library:
UGAAAAUUGCAAAUAGGCCCA (sequencing frequency: 9)

M111 (ΔG = -89.00)

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UGAGGAAAAAUAGACUGGGC (sequencing frequency: 4)
in the WC library:
UGAGGAAAAAUAGACUGGGC (sequencing frequency: 10)

M112 (ΔG = -89.80)
sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UUGCAAGAAACCCUGAGAA  (sequencing frequency: 12)
in the WC library:
UUGCAAGAAACCCUGAGAA  (sequencing frequency: 3)

M113 (ΔG = -113.40)

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UUGUGAUGGGUGUGGGGACA  (sequencing frequency: 4)
in the WC library:
UUGUGAUGGGUGUGGGGACA  (sequencing frequency: 10)

M114 (ΔG = -85.50)

sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UUUGUGGAAUGGAGGGAGUAG (sequencing frequency: 9)
in the WC library:
UUUGUGGAAUGGAGGGAGUAG (sequencing frequency: 5)

M115 ($\Delta G = -122.60$)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
GUGAAACUGACUGGUUGGGGC (sequencing frequency: 4)
in the WC library:
GUGAAACUGACUGGUUGGGGC (sequencing frequency: 11)

M116 ($\Delta G = -74.90$)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UAUGUGAGGGGUUGGUAACUGAA (sequencing frequency: 285)
GUAUGUGAGGGGUUGGUAACUGAA (sequencing frequency: 2)
UGAGGGGUUGGUAACUGAAUGUG (sequencing frequency: 1)
AGGGGUUGGUAACUGAAUGUGUUGG (sequencing frequency: 1)
UGUGAGGGGUUGGUAACUGAA (sequencing frequency: 1)
in the WC library:
UAUGUGAGGGGUUGGUAACUGAA (sequencing frequency: 103)
GGGUUGGUAACUGAAUGUG (sequencing frequency: 2)
GUAUGUGAGGGGUUGGUAACUGA (sequencing frequency: 1)

M117 ($\Delta G = -67.50$)

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sRNA (5’ to 3’ orientation) mapped to this predicted precursor hairpin:
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sRNA (5’ to 3’ orientation) mapped to this predicted precursor hairpin:
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sRNA (5’ to 3’ orientation) mapped to this predicted precursor hairpin:
in the NC library:

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UGGCAAGUUGACUUCACGCU (sequencing frequency: 3)
in the WC library:
UGGCAAGUUGACUUCACGCU (sequencing frequency: 7)

M121 ($\Delta G = -115.20$)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UAUCUUACUGUUUUCCCGACACA (sequencing frequency: 8)
in the WC library:
UAUCUUACUGUUUUCCCGACACA (sequencing frequency: 5)

M122 ($\Delta G = -67.40$)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UUCCCGUAACUGUAAAGAUUGCA (sequencing frequency: 56)
UAUUCGguacUAAGAUUG (sequencing frequency: 1)
in the WC library:
UUCCCGUAACUGUAAAGAUUGCA (sequencing frequency: 57)
UAUUCGguacUAAGAUUG (sequencing frequency: 2)
M123 ($\Delta G = -61.80$)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UCAAAGGAUACCUCUGAGGUCA (sequencing frequency: 6)
in the WC library:
UCAAAGGAUACCUCUGAGGUCA (sequencing frequency: 11)

M124 ($\Delta G = -60.50$)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
AAGAAUUUAGGACCGGAGGGA (sequencing frequency: 4)
in the WC library:
AAGAAUUUAGGACCGGAGGGA (sequencing frequency: 5)

M125 ($\Delta G = -52.90$)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
CGCUUAUUAUGGAAUCGGAGGG (sequencing frequency: 6)
in the WC library:
CGCUUUAUUUUGGAUGGG (sequencing frequency: 4)

M126 (AG = -66.30)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
UUAGGUGCUUUCGGCUUUGGC (sequencing frequency: 32)
in the WC library:
UUAGGUGCUUUCGGCUUUGGC (sequencing frequency: 6)

M127 (AG = -63.80)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
GGGGAAAAGAGAUUGAGGGAG (sequencing frequency: 6)
in the WC library:
GGGGAAAAGAGAUUGAGGGAG (sequencing frequency: 31)

M128 (AG = -40.40)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
ACUGGAUGGCACGGGAGCUAC (sequencing frequency: 67)
AGCUCGCAGUAUUCAUCAUCA (sequencing frequency: 4)
UGGAUGGCACGGGAGCUAC (sequencing frequency: 1)
in the WC library:
ACUGGAUGGCACGGGAGCUAC (sequencing frequency: 7)

M129 (ΔG = -51.70)

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sRNA (5' to 3' orientation) mapped to this predicted precursor hairpin:
in the NC library:
ACUUAUUUCCCCGGACGGAGGGC (sequencing frequency: 34)
in the WC library:
ACUUAUUUCCCCGGACGGAGGGC (sequencing frequency: 6)

Additional data file 2. The secondary structures of predicted *Brachypodium* miRNAs. Sequences indicated in red and green color correspond to identified miRNAs and miRNA* sequences respectively.