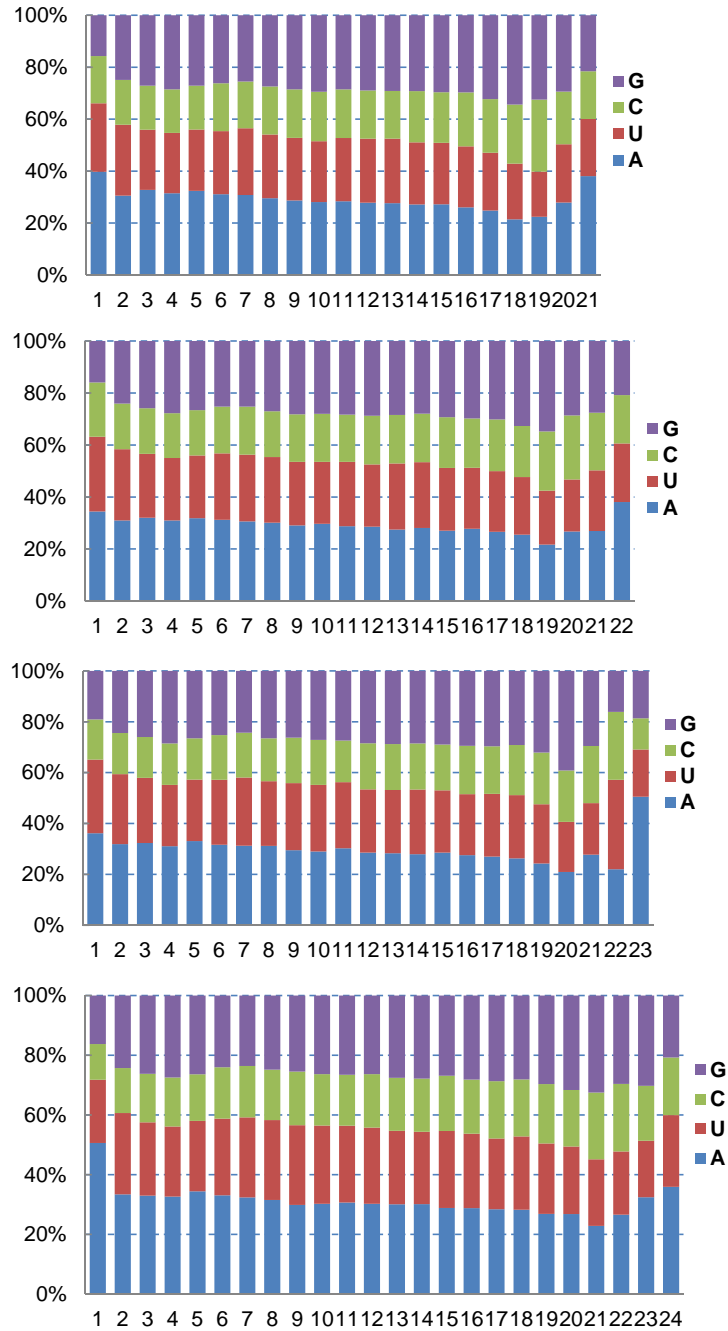
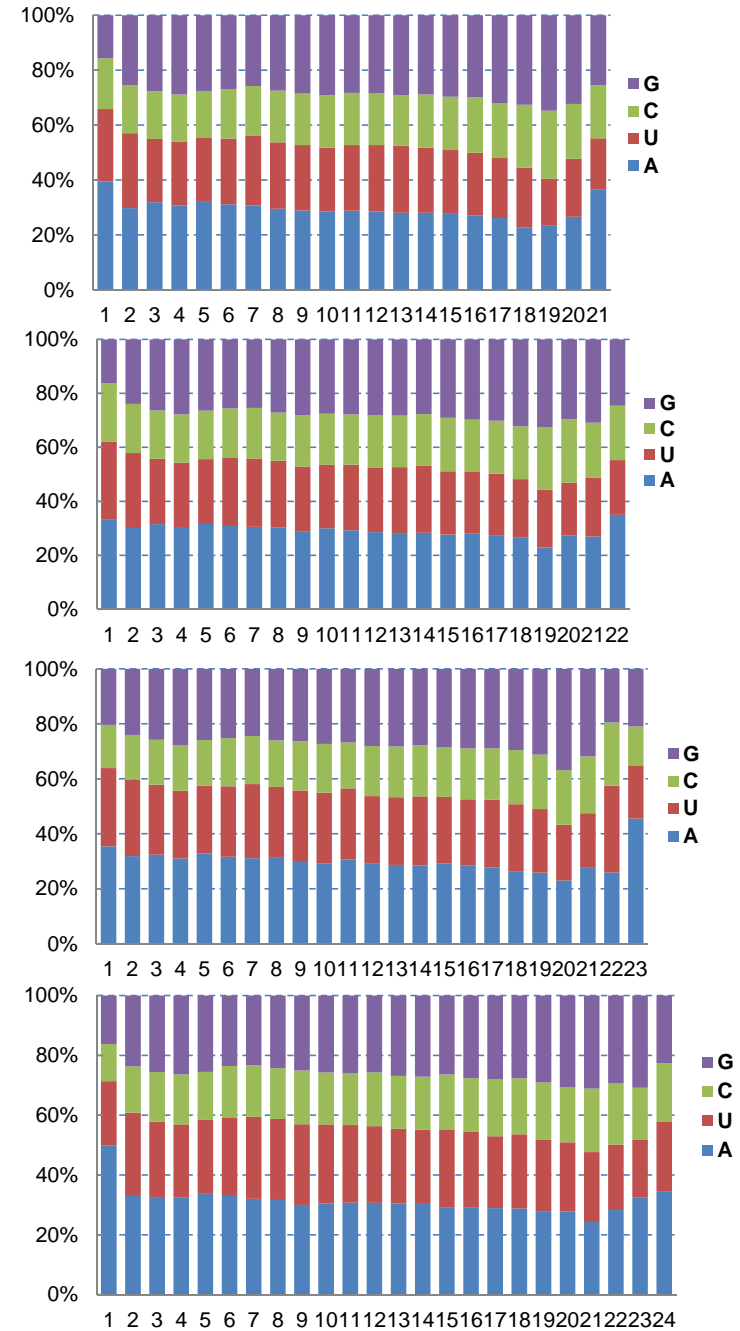
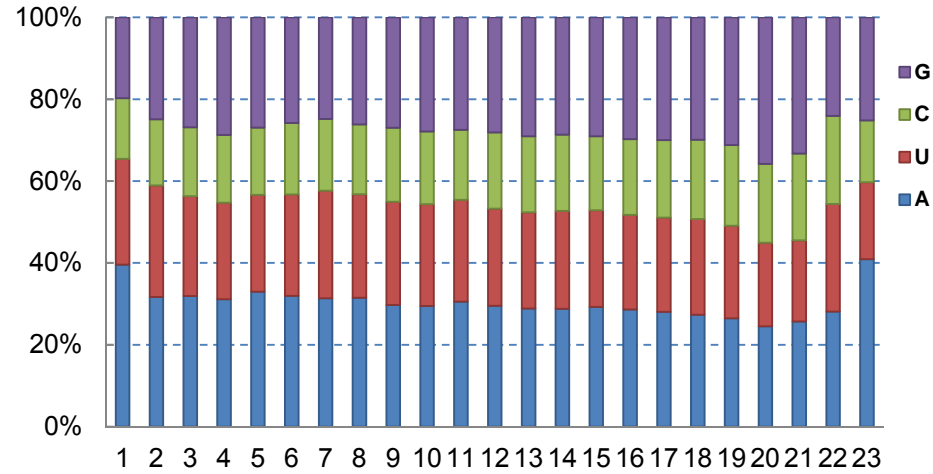
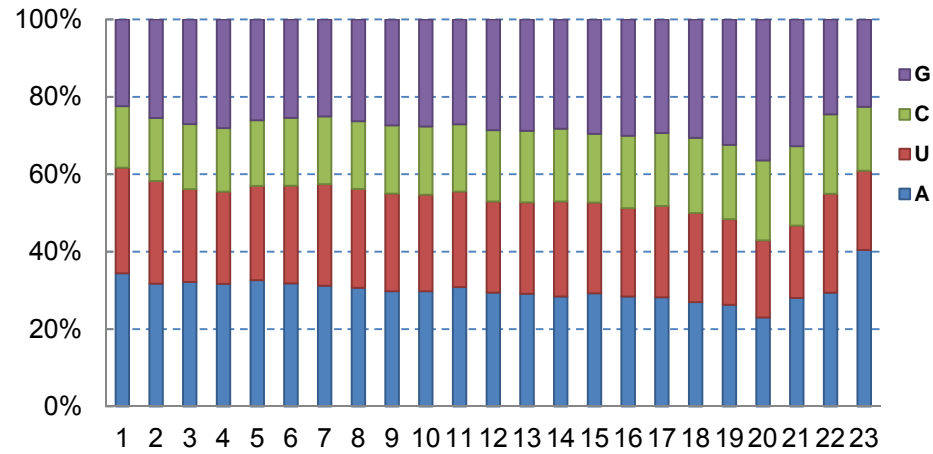


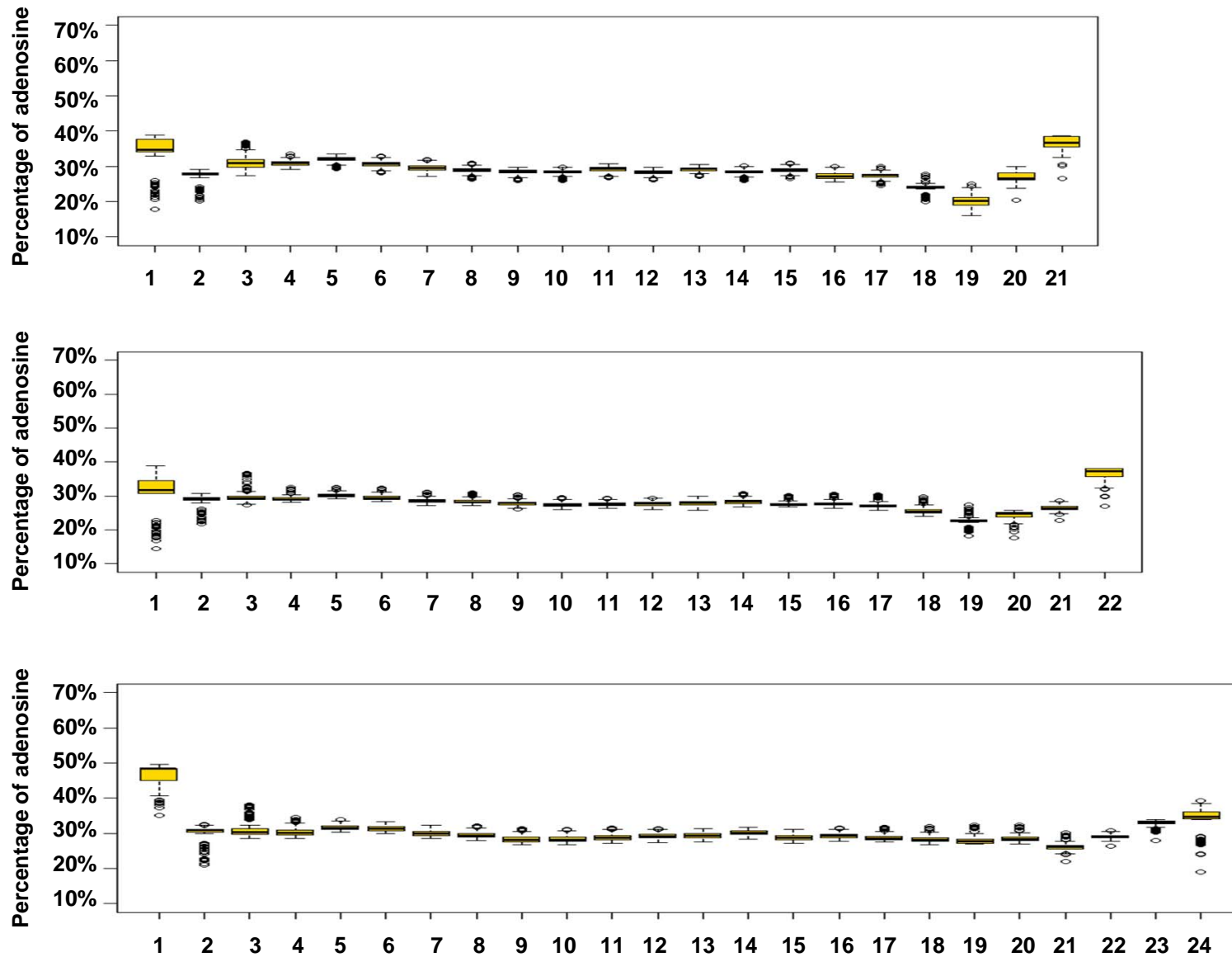
Supplemental Figure S1. Size distribution of small RNAs. A, Size distribution of total sequenced reads and non-redundant sequences; B, Size distribution of total sequenced reads and non-redundant sequences mapped to the *Brassica* BAC clones.

A**B**

Supplemental Figure S2. Nucleotide preferences at each position of small RNAs. A, Nucleotide preferences of the total sequenced 21-nt, 22-nt, 23-nt, and 24-nt non-redundant sequences. B, Nucleotide preferences of the 21-nt, 22-nt, 23-nt, and 24-nt non-redundant sequences mapped to the *Brassica* BAC clones.

A**B**

Supplemental Figure S3. Nucleotide preference at each position of the 24-nt dependent 23-nt small RNAs. A, Nucleotide preference of 23-nt small RNAs with identical 5' ends to the 24-nt ones. B, Nucleotide preference of 23-nt small RNAs with identical 3' ends to the 24-nt ones.



Supplemental Figure S4. Percentage of adenosine at each position of 21-nt, 22-nt, and 24-nt small RNAs of the 162 *Arabidopsis* small RNA deep sequencing data sets deposited in the NCBI GEO database.

Supplemental Figure S5. Secondary structures of the *B.napus* miRNA candidate precursors, and the expression and location of small RNAs mapped to these precursors. Sequences of miRNA candidates are labeled in red, and sequences of putative miRNA*s are labeled in green.

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Bna-miR156b

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Bna-miR156d_FP017265_-117824_117933      CGCAAAGAAACUGACAGAAGAGAGUGAGCACAAAGGCACUUUGCAUGUUGCAUGCAUUUGCUUCUUGCGUGCUCACUGUCUUAUCUGUCAGGUUCCGGCACCGAAU
Bn. sRNA3246342_1_0_0_0                    ..... GAAACUGACAGAAGAGAGUGAGCA .....
Bn. sRNA155032_0_1_0_0                    ..... AACUGACAGAAGAGAGUGAGC .....
Bn. sRNA155033_0_1_0_0                    ..... AACUGACAGAAGAGAGUGAGCA .....
Bn. sRNA155034_0_1_0_0                    ..... AACUGACAGAAGAGAGUGAGCAC .....
Bn. sRNA398947_0_1_0_0                    ..... AACUGACAGAAGAGAGUGAGCA .....
Bn. sRNA398948_1_1_0_0                    ..... AACUGACAGAAGAGAGUGAGCAC .....
Bn. sRNA3102851_4_13_6_7                  ..... CUGACAGAAGAGAGUGAGCAC .....
Bn. sRNA4873314_0_0_3_0                    ..... UGACAGAAGAGAGUG .....
Bn. sRNA4873315_0_4_3_2                    ..... UGACAGAAGAGAGUGA .....
Bn. sRNA4873323_2_9_14_2                   ..... UGACAGAAGAGAGUGAGC .....
Bn. sRNA4873324_11_12_26_14                ..... UGACAGAAGAGAGUGAGCA .....
Bn. sRNA4873327_1717_5450_4481_4194       ..... UGACAGAAGAGAGUGAGCAC .....
Bn. sRNA4873328_15_23_11_22                ..... UGACAGAAGAGAGUGAGCACA .....
Bn. sRNA3365278_45_109_49_30                ..... GACAGAAGAGAGUGAGCAC .....
Bn. sRNA3365279_0_1_0_0                    ..... GACAGAAGAGAGUGAGCACA .....
Bn. sRNA854619_1_15_9_3                    ..... ACAGAAGAGAGUGAGCAC .....
Bn. sRNA854620_0_0_0_2                     ..... ACAGAAGAGAGUGAGCACA .....
Bn. sRNA2520707_0_0_3_0                    ..... CAGAAGAGAGUGAGCAC .....
Bn. sRNA4989854_1_0_0_0                    ..... UGCUCACUCUCUUAUCUGUCAGGU .....

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C----- AAA  A      - -      A ---|   CUU  GU
      GC  GAA CUGACAGA AGAG AGUGAGCAC CAA  AGGCA  UGCAU  \
      CG  CUU GACUGUCU UCUC UGACUCGUG GUU  UUCGU  ACGUA  U
UUAGCCA GC-  G      A  G      C  CUC^  UU-  GC

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miRNA: Bn. sRNA4873327_1717_5450_4481_4194
miRNA*: Bn. sRNA4989854_1_0_0_0

Bna-miR156e

```

Bna-miR156e_AC189375_+125566_125684      GAAUUGCAACAGAGAAAACUGACAGAAGAGAGUGAGCACUUGCAAGGCACUUUAUGUGUCAUAACUUUGCGUGUGCGUGCUCACCCUCUCUUUCUGUCAGUUGCCUGACUUCUCGCUU
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Bn. sRNA155033_0_1_0_0                    ..... AACUGACAGAAGAGAGUGAGCA .....
Bn. sRNA155034_0_1_0_0                    ..... AACUGACAGAAGAGAGUGAGCAC .....
Bn. sRNA398947_0_1_0_0                    ..... AACUGACAGAAGAGAGUGAGCA .....
Bn. sRNA398948_1_1_0_0                    ..... AACUGACAGAAGAGAGUGAGCAC .....
Bn. sRNA1075625_1_0_0_0                    ..... ACUGACAGAAGAGAGUGAGCACU .....
Bn. sRNA3102851_4_13_6_7                  ..... CUGACAGAAGAGAGUGAGCAC .....
Bn. sRNA4873314_0_0_3_0                    ..... UGACAGAAGAGAGUG .....
Bn. sRNA4873315_0_4_3_2                    ..... UGACAGAAGAGAGUGA .....
Bn. sRNA4873323_2_9_14_2                   ..... UGACAGAAGAGAGUGAGC .....
Bn. sRNA4873324_11_12_26_14                ..... UGACAGAAGAGAGUGAGCA .....
Bn. sRNA4873327_1717_5450_4481_4194       ..... UGACAGAAGAGAGUGAGCAC .....
Bn. sRNA4873333_93_68_55_34                ..... UGACAGAAGAGAGUGAGCACU .....
Bn. sRNA4873337_0_4_6_2                     ..... UGACAGAAGAGAGUGAGCACUU .....
Bn. sRNA3365278_45_109_49_30                ..... GACAGAAGAGAGUGAGCAC .....
Bn. sRNA3365280_0_1_0_2                     ..... GACAGAAGAGAGUGAGCACU .....
Bn. sRNA854619_1_15_9_3                    ..... ACAGAAGAGAGUGAGCAC .....
Bn. sRNA854621_1_0_0_0                    ..... ACAGAAGAGAGUGAGCACUU .....
Bn. sRNA854622_2_6_0_0                     ..... ACAGAAGAGAGUGAGCACUUG .....
Bn. sRNA854623_0_1_0_0                    ..... ACAGAAGAGAGUGAGCACUUGC .....
Bn. sRNA2520707_0_0_3_0                    ..... CAGAAGAGAGUGAGCAC .....
Bn. sRNA4989791_1_1_0_8                    ..... UGCUCACCCUCUCUUUCUGUCAGU .....
Bn. sRNA3733973_0_1_0_0                    ..... GCUCACCCUCUCUUUCUGUCAG .....
Bn. sRNA3733974_1_3_0_2                    ..... GCUCACCCUCUCUUUCUGUCAGU .....
Bn. sRNA4553141_1_0_0_0                    ..... UCACCCUCUCUUUCUGUCAGU .....

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```

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      CUCUU      UUGACUGUC UUCUCU CACUCGUG GUGU  CGU  CAAUA  U
UUCG----- CAGUCCG      U  C^   C  G-  UU  AC

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miRNA: Bn. sRNA4873327_1717_5450_4481_4194
miRNA*: Bn. sRNA3733974_1_3_0_2

Bna-miR156f

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 Bn. sRNA3246342_1_0_0_0 GAAACUGACAGAAGAGAGAGAGCA.
 Bn. sRNA155032_0_1_0_0 AAACUGACAGAAGAGAGAGAGC.
 Bn. sRNA155033_0_1_0_0 AAACUGACAGAAGAGAGAGAGCA.
 Bn. sRNA155034_0_1_0_0 AAACUGACAGAAGAGAGAGAGC.
 Bn. sRNA398947_0_1_0_0 AACUGACAGAAGAGAGAGAGCA.
 Bn. sRNA398948_1_1_0_0 AACUGACAGAAGAGAGAGAGC.
 Bn. sRNA3102851_4_13_6_7 CUGACAGAAGAGAGAGAGC.
 Bn. sRNA4873314_0_0_3_0 UGACAGAAGAGAGAG.
 Bn. sRNA4873315_0_4_3_2 UGACAGAAGAGAGAG.
 Bn. sRNA4873323_2_9_14_2 UGACAGAAGAGAGAGC.
 Bn. sRNA4873324_11_12_26_14 UGACAGAAGAGAGAGCA.
 Bn. sRNA4873327_1717_5450_4481_4194 UGACAGAAGAGAGAGAGC.
 Bn. sRNA4873328_15_23_11_22 UGACAGAAGAGAGAGAGCACA.
 Bn. sRNA3365278_45_109_49_30 GACAGAAGAGAGAGAGC.
 Bn. sRNA3365279_0_1_0_0 GACAGAAGAGAGAGAGCACA.
 Bn. sRNA854619_1_15_9_3 ACAGAAGAGAGAGAGAGC.
 Bn. sRNA854620_0_0_0_2 ACAGAAGAGAGAGAGCACA.
 Bn. sRNA2520707_0_0_3_0 CAGAAGAGAGAGAGC.
 Bn. sRNA4989857_0_1_0_7 UGCUCACUGCUCUUUCUGUCAGA.
 Bn. sRNA3734124_0_0_3_2 GCUCACUGCUCUUUCUGUCAGA.
 Bn. sRNA3050266_0_0_3_0 CUCACUGCUCUUUCUGUCAGA.

----- - A- A - - A ---| U UA
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 GU GUG CUU GACUGUC UUCUC UCACUCGUG GUU UUCGUUUA CGU U
 CUCUA C CC A U G C CUC^ - UG

miRNA: Bn. sRNA4873327_1717_5450_4481_4194
 miRNA*: Bn. sRNA3734124_0_0_3_2

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Bna-miR156g

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 Bn. sRNA5188510_0_1_0_0 UGUUGACAGAAGAUAGAGAGC.
 Bn. sRNA5188511_0_0_3_0 UGUUGACAGAAGAUAGAGAGCACA.
 Bn. sRNA5382125_0_2_0_0 UUGACAGAAGAUAGA.
 Bn. sRNA5382129_1_0_0_0 UUGACAGAAGAUAGAGA.
 Bn. sRNA5382133_1_1_0_0 UUGACAGAAGAUAGAG.
 Bn. sRNA5382139_3_9_3_2 UUGACAGAAGAUAGAGAGC.
 Bn. sRNA5382140_6_11_0_5 UUGACAGAAGAUAGAGAGCA.
 Bn. sRNA5382142_1966_4606_835_1757 UUGACAGAAGAUAGAGAGC.
 Bn. sRNA5382143_0_4_0_3 UUGACAGAAGAUAGAGAGCACA.
 Bn. sRNA4873384_2_2_0_0 UGACAGAAGAUAGAGAGCA.
 Bn. sRNA4873386_203_484_6_15 UGACAGAAGAUAGAGAGC.
 Bn. sRNA4873387_7_10_0_5 UGACAGAAGAUAGAGAGCACA.
 Bn. sRNA3365295_35_62_3_5 GACAGAAGAUAGAGAGC.
 Bn. sRNA3365296_0_2_0_0 GACAGAAGAUAGAGAGCACA.
 Bn. sRNA854685_1_0_3_0 ACAGAAGAUAGAGAGC.
 Bn. sRNA854686_5_12_26_96 ACAGAAGAUAGAGAGCAGAGA.
 Bn. sRNA3739255_0_0_0_2 GCUCUCUAGUCUUCUGUCAUC.

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 GUUC C U G C CAUG^ AUGU GA

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miRNA*: Bn. sRNA3739255_0_0_2

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Bna-miR159

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Bn. sRNA1574936_0_0_2AGGGCCUUAUAGUCAAAGC.....
Bn. sRNA1445731_0_0_3_0AGCGCUAAGCUAUGAUUCC.....
Bn. sRNA3161671_0_0_0_2CUACAUAUCCAGGAGCUU.....
Bn. sRNA3161672_0_1_3_7CUACAUAUCCAGGAGCUUU.....
Bn. sRNA5368940_0_1_0_0UUUUGGAUUGAGGGAGCU.....
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Bn. sRNA3220737_0_3_0_0UUUUGGAUUGAGGGAGCU.....
Bn. sRNA3220738_2_1_3_2UUUUGGAUUGAGGGAGCUCA.....
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Bn. sRNA5430813_1_0_0_0UUUUGGAUUGAGGGAGCU.....
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Bn. sRNA5053026_0_1_0_0UUUUGGAUUGAGGGAGC.....
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miRNA: Bn. sRNA553196_143_127_118_66
miRNA*: Bn. sRNA1574936_0_0_2

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Bna-miR160a

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Bn. sRNA5455537_0_2_0_0 ... UUGUAUAAGAUGUGUAUGCCUG.
Bn. sRNA4484622_1_0_0_0 UAUGCCUGGCCUCCUGUAUGCCA.
Bn. sRNA2117010_0_0_3_0 AUGCCUGGCCUCCUGUAUG.
Bn. sRNA2117011_7_7_6_3 AUGCCUGGCCUCCUGUAUGCC.
Bn. sRNA2117012_3_3_0_0 AUGCCUGGCCUCCUGUAUGCCA.
Bn. sRNA4974193_42_45_178_129 UGCCUGGCCUCCUGUAUGCCA.
Bn. sRNA4974196_1_0_0_2 UGCCUGGCCUCCUGUAUGCCA.
Bn. sRNA3690628_3_1_0_0 GCCUGGCCUCCUGUAUGCCA.
Bn. sRNA3690629_0_0_0_2 GCCUGGCCUCCUGUAUGCCA.
Bn. sRNA2786368_0_0_0_2 CCUGGCCUCCUGUAUGCCA.
Bn. sRNA2786370_0_0_0_2 CCUGGCCUCCUGUAUGCCA.
Bn. sRNA5065231_0_0_0_2 UGCCUGGCCUCCUGUAUGCCA.
Bn. sRNA5065232_1_0_0_0 UGCCUGGCCUCCUGUAUGCCA.
Bn. sRNA3855980_2_0_9_3 GCGUAUGAGGAGCCAUGCA.
Bn. sRNA3855981_20_15_40_22 GCGUAUGAGGAGCCAUGCA.
Bn. sRNA3855982_0_1_3_2 GCGUAUGAGGAGCCAUGCA.
Bn. sRNA3719074_2_1_26_10 GCGUAUGAGGAGCCAUGCA.
Bn. sRNA3719077_2_1_6_12 GCGUAUGAGGAGCCAUGCA.
Bn. sRNA3719078_470_373_646_636 GCGUAUGAGGAGCCAUGCA.
Bn. sRNA2964366_0_0_0_2 CGUAUGAGGAGCCAUGCA.
Bn. sRNA4028522_0_3_0_0 GUAUGAGGAGCCAUGCA.
Bn. sRNA4480144_1_0_0_0 UAUGAGGAGCCAUGCA.
Bn. sRNA4480145_1_0_0_0 UAUGAGGAGCCAUGCAUUUU.
Bn. sRNA4480146_0_1_0_0 UAUGAGGAGCCAUGCAUUUU.
Bn. sRNA2086855_0_1_0_0 AUGAGGAGCCAUGCAUUUU.

-| U A UGU C CU CCUCUA C C
GUAG UGUUA GA GUAUGC UGGUCC GUAUGCCAU AG UCAUCGA \
CAUU ACAUAU CU UAUACG ACCGAGG UAUGCGGUA UC AGUAGUU C
A^ U A UU- U AG AGUGCC C A

miRNA Bn. sRNA4974193_42_45_178_129
miRNA* Bn. sRNA3719078_470_373_646_636

Bna-miR160b

Bna-miR160b_AC189245_+_87272_87491 UCAUGCCUGGCCUCCUGUAUGCCACAAGUAGAUUAUUGAUUUUGGUUGAAAAAUCAGCUGCCAGUGGCGUACAAGGAGUCAAGCAUGA
Bn. sRNA2638123_1_0_0_0 . CAUGCCUGGCCUCCUGUAUGCC.
Bn. sRNA2117010_0_0_3_0 .. AUGCCUGGCCUCCUGUAUG.
Bn. sRNA2117011_7_7_6_3 .. AUGCCUGGCCUCCUGUAUGCC.
Bn. sRNA2117012_3_3_0_0 .. AUGCCUGGCCUCCUGUAUGCCA.
Bn. sRNA4974193_42_45_178_129 ... UGCCUGGCCUCCUGUAUGCCA.
Bn. sRNA3690628_3_1_0_0 GCCUGGCCUCCUGUAUGCCA.
Bn. sRNA2786368_0_0_0_2 CCUGGCCUCCUGUAUGCCA.
Bn. sRNA3718039_1_0_0_0 GCGUACAAGGAGUCAAGCAU. .
Bn. sRNA3718040_21_19_26_12 GCGUACAAGGAGUCAAGCAUG. .
Bn. sRNA2958695_1_0_0_0 CGUACAAGGAGUCAAGCAUGA

C C AA AUA GGU
UCAUGC UGGUCC UGUAUGCCAC GUAG UUGAUUUU \
AGUACG ACUGAGG ACAUGCGGUG CGUC GACUAAAA U
A A AC --- AAG

miRNA: Bn. sRNA4974193_42_45_178_129
miRNA*: Bn. sRNA3718040_21_19_26_12

Bna-miR160c

Bna-miR160c_AC189471_-143401_143515 GUGUGUCUCUUAUGGUCUGCCUGGCCUCCUGUAUGCCACAAGUAUUAACCGAUCUCGUUACGAAAUCUGUGGCUAGUGCGGUACAGAGUAGUCAAGCAUGACCAAAGCUUUUC
 Bn. sRNA4974193_42_45_178_129UGCCUGGCCUCCUGUAUGCCA.....
 Bn. sRNA3690628_3_1_0_0GCCUGGCCUCCUGUAUGCCA.....
 Bn. sRNA2786368_0_0_0_2CCUGGCCUCCUGUAUGCCA.....
 Bn. sRNA4434290_1_0_0_0UAGUGGCGUACAGAGUAGUCAAGCA.....
 Bn. sRNA5065149_2_0_0_0UGGCGUACAGAGUAGUCAAGCA.....
 Bn. sRNA3718069_0_0_0_2GCGUACAGAGUAGUCAAGCA.....
 Bn. sRNA3718070_3_1_3_3GCGUACAGAGUAGUCAAGCAU.....
 Bn. sRNA3718074_32_47_46_34GCGUACAGAGUAGUCAAGCAUG.....
 Bn. sRNA3718075_1_0_0_2GCGUACAGAGUAGUCAAGCAUGA.....
 Bn. sRNA2958852_2_2_9_5CGUACAGAGUAGUCAAGCAUG.....
 Bn. sRNA2958853_7_5_20_37CGUACAGAGUAGUCAAGCAUGA.....
 Bn. sRNA3994059_0_1_0_0GUACAGAGUAGUCAAGCA.....
 Bn. sRNA3994060_3_1_3_0GUACAGAGUAGUCAAGCAUGA.....
 Bn. sRNA4318997_0_0_0_2UACAGAGUAGUCAAGCAUGACC.....
 Bn. sRNA861295_0_0_3_0ACAGAGUAGUCAAGCAUGACCA.....

GUGUGU| CUA C CC- A AUA C C U
 GCU UGGUCGUGC UGGCU CUGUAUGCCAC AGU UAC GAU UCG \
 CGA ACCAGUACG ACUGA GACAUGCGGUG UCG GUG CUA AGC U
 CUUUU-^ A--- A UGA A --- U A A

miRNA: Bn. sRNA4974193_42_45_178_129
 miRNA*: Bn. sRNA3718074_32_47_46_34

Bna-miR160d

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 Bn. sRNA2117010_0_0_3_0 ...AUGCCUGGCCUCCUGUAUG.....
 Bn. sRNA2117011_7_7_6_3 ...AUGCCUGGCCUCCUGUAUGCC.....
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 Bn. sRNA4974193_42_45_178_129UGCCUGGCCUCCUGUAUGCCA.....
 Bn. sRNA3690628_3_1_0_0GCCUGGCCUCCUGUAUGCCA.....
 Bn. sRNA2786368_0_0_0_2CCUGGCCUCCUGUAUGCCA.....
 Bn. sRNA4434290_1_0_0_0UAGUGGCGUACAGAGUAGUCAAGCA...
 Bn. sRNA5065149_2_0_0_0UGGCGUACAGAGUAGUCAAGCA...
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 Bn. sRNA3994059_0_1_0_0GUACAGAGUAGUCAAGCA...
 Bn. sRNA3994060_3_1_3_0GUACAGAGUAGUCAAGCAUGA...
 Bn. sRNA4318997_0_0_0_2UACAGAGUAGUCAAGCAUGAC...
 Bn. sRNA861295_0_0_3_0ACAGAGUAGUCAAGCAUGAC

C CC-| A AAAUA C AU
 GUCAUGC UGGCU CUGUAUGCCAC AGU CCGAU UC \
 CAGUACG ACUGA GACAUGCGGUG UCA GGCUA AG U
 A UGA^ A CA--- A UA

miRNA: Bn. sRNA4974193_42_45_178_129
 miRNA*: Bn. sRNA3718074_32_47_46_34

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Bna-miR162a

Bna-miR162a_AC189332+_56547_56660 AGUGAAAGAUGCUGGAGGCAGCGGUUGAUCGAUCUCUUUGUGGGAAUUUUUGAAAAACAAAUUAAAAGCAUGAACAGAU CGAUAAACUGUGCAUCCAGCGGUCGCCUCUUA
Bn. sRNA3815547_0_3_0_3GGAGGCAGCGGUUGAUCGAUC.....
Bn. sRNA4678236_0_8_3_8UCGAUAAACUGUGCAUCCAG.....

A-----| AAGA G GC G C UG GAAU-- AA
GUGA UGCUGGA GCA GGUU AUCGAUCU UU UG UUUUG \
CGCU GCGACCU CGU CCAA UAGCUAGA AA AC AAAAC A
ACUUCUC^ G--- A GU A C GU GAAAAU AA

miRNA: Bn. sRNA4678236_0_8_3_8
miRNA*: Bn. sRNA3815547_0_3_0_3

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Bna-miR164a

Bna-miR164a_AC232484+_29694_29784 CCUCCACGUUGGAGAAGCAGGGCAGUGCAAACCAACAAACAGAGAUCUAUCUCAUGUAAUUUGCACGUGCUCCACUCCUCCAACAUGAG
Bn. sRNA5031411_0_0_0_3 UGGAGAAGCAGGGCA.....
Bn. sRNA5031420_1_3_9_0 UGGAGAAGCAGGGCAGC.....
Bn. sRNA5031431_1_1_0_3 UGGAGAAGCAGGGCAGCU.....
Bn. sRNA5031436_3_0_17_3 UGGAGAAGCAGGGCAGUG.....
Bn. sRNA5031440_2_2_11_14 UGGAGAAGCAGGGCAGGUC.....
Bn. sRNA5031441_1281_1084_2762_2386 UGGAGAAGCAGGGCAGGUGCA.....
Bn. sRNA5031442_0_1_3_0 UGGAGAAGCAGGGCAGGUGCAA.....
Bn. sRNA5031443_1_0_0_0 UGGAGAAGCAGGGCAGGUGCAA.....
Bn. sRNA5031444_1_1_0_0 UGGAGAAGCAGGGCAGGUGCAAAC.....
Bn. sRNA3800030_1_0_0_0 GGAGAAGCAGGGCAGC.....
Bn. sRNA3800032_145_148_9_3 GGAGAAGCAGGGCAGGUGCA.....
Bn. sRNA3423586_6_2_0_0 GAGAAGCAGGGCAGGUGCA.....

C CAC A CA CCAACAA C U
CUC GUUGGAG AG GGGCAGGUGCAA ACA GAGA C
GAG CAACCUC UC CUCGUCACGUUU UGU CUCU U
- UA- C AC AA----- A A

miRNA: Bn. sRNA5031441_1281_1084_2762_2386

Bna-miR164b

Bna-miR164b_AC189579_-50877_50986 GUUACACUUGCUGGAGAAGCAGGGCAGGUGCGAACAAGAGAU CGAU CGGUAUUGUUAUCAUUAUUUCGCACGUGUUCUACUCCAACACGUGUGCCUCCCCUC
Bn. sRNA5415476_0_1_0_0 UUGCUGGAGAAGCAGGGCAGGUG.....
Bn. sRNA4996505_1_0_0_0 UGCUGGAGAAGCAGGGCAGCU.....
Bn. sRNA5031411_0_0_0_3 UGGAGAAGCAGGGCA.....
Bn. sRNA5031420_1_3_9_0 UGGAGAAGCAGGGCAGC.....
Bn. sRNA5031431_1_1_0_3 UGGAGAAGCAGGGCAGCU.....
Bn. sRNA5031436_3_0_17_3 UGGAGAAGCAGGGCAGGUG.....
Bn. sRNA5031440_2_2_11_14 UGGAGAAGCAGGGCAGGUC.....
Bn. sRNA5031452_50_69_189_93 UGGAGAAGCAGGGCAGGUGCG.....
Bn. sRNA5031453_1_0_0_0 UGGAGAAGCAGGGCAGGUGCGA.....
Bn. sRNA3800030_1_0_0_0 GGAGAAGCAGGGCAGC.....
Bn. sRNA3800034_4_13_0_2 GGAGAAGCAGGGCAGGUGCG.....
Bn. sRNA3423587_0_0_3_0 GAGAAGCAGGGCAGGUGCG.....

GU-----| U C A C CA A CGG
UACAC UG UGGAG AG AGGGCAGGUGCGAA AAUG GAUCGAU U
GUGUG AC ACCUC UC UCUUGUCACGCUU UUAU CUAGUUG A
CUCCCCUCC^ C A A A -- A UAU

miRNA: Bn. sRNA5031452_50_69_189_93

Bna-miR164c

Bna-miR164c_AC189626+_18955_19045 AACACUUGCUGGAGAAGCAGGGCAGGUGCGAACUAAUGAGAGAUUCUGUGCAUGUUGAUCAUAUUUUUGCAGGUGUUCUACUACUCCAACAC
 Bn. sRNA5415476_0_1_0_0 UUGCUGGAGAAGCAGGGCAGGUG.....
 Bn. sRNA4996505_1_0_0_0 UGCUGGAGAAGCAGGGCAGGU.....
 Bn. sRNA5031411_0_0_0_3 UGGAGAAGCAGGGCA.....
 Bn. sRNA5031420_1_3_9_0 UGGAGAAGCAGGGCAGG.....
 Bn. sRNA5031431_1_1_0_3 UGGAGAAGCAGGGCAGGU.....
 Bn. sRNA5031436_3_0_17_3 UGGAGAAGCAGGGCAGGUG.....
 Bn. sRNA5031440_2_2_11_14 UGGAGAAGCAGGGCAGGUGC.....
 Bn. sRNA5031452_50_69_189_93 UGGAGAAGCAGGGCAGGUGCG.....
 Bn. sRNA5031453_1_0_0_0 UGGAGAAGCAGGGCAGGUGCGA.....
 Bn. sRNA3800030_1_0_0_0 GGAGAAGCAGGGCAGG.....
 Bn. sRNA3800034_4_13_0_2 GGAGAAGCAGGGCAGGUGCG.....
 Bn. sRNA3423587_0_0_3_0 GAGAAGCAGGGCAGGUGCG.....

AACACU| C A C CUA GA CUG
 UG UGGAG AG AGGGCAGGUGCGAA AUGA GAU U
 AC ACCUC UC UCUUGUGCACGUUU UACU UUG G
 C-----^ A A A UUA AG UAC

miRNA: Bn. sRNA5031452_50_69_189_93

Bna-miR164d

Bna-miR164d_AC189657_-5269_5378 GUAUCACUUGCUGGAGAAGCAGGGCAGGUGCGAACAAUUGAGUUGAGCAGUACAUUUUGAUCAAUAUUCGCAGGUGUUCUACUACUCCAACACGUGUAUCUCCCCUUC
 Bn. sRNA5415476_0_1_0_0 UUGCUGGAGAAGCAGGGCAGGUG.....
 Bn. sRNA4996505_1_0_0_0 UGCUGGAGAAGCAGGGCAGGU.....
 Bn. sRNA5031411_0_0_0_3 UGGAGAAGCAGGGCA.....
 Bn. sRNA5031420_1_3_9_0 UGGAGAAGCAGGGCAGG.....
 Bn. sRNA5031431_1_1_0_3 UGGAGAAGCAGGGCAGGU.....
 Bn. sRNA5031436_3_0_17_3 UGGAGAAGCAGGGCAGGUG.....
 Bn. sRNA5031440_2_2_11_14 UGGAGAAGCAGGGCAGGUGC.....
 Bn. sRNA5031452_50_69_189_93 UGGAGAAGCAGGGCAGGUGCG.....
 Bn. sRNA5031453_1_0_0_0 UGGAGAAGCAGGGCAGGUGCGA.....
 Bn. sRNA3800030_1_0_0_0 GGAGAAGCAGGGCAGG.....
 Bn. sRNA3800034_4_13_0_2 GGAGAAGCAGGGCAGGUGCG.....
 Bn. sRNA3423587_0_0_3_0 GAGAAGCAGGGCAGGUGCG.....

-----| U U C A C CAAAUGA G UA
 GUA CAC UG UGGAG AG AGGGCAGGUGCGAA GUUUGA CAG C
 UAU GUG AC ACCUC UC UCUUGUGCACGCUU UAAACU GUU A
 CUUCCCCUC^ - C A A A A----- A UU

miRNA: Bn. sRNA5031452_50_69_189_93

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Bna-miR166f

```
Bna-miR166f_AC232510_-_45824_45973      AGUUGAGGGGAUGUUCUGGACCGAGGAUUAUUAUACACACAUAUAUUAUGUUAACAAGUGAUCAAUCAUAUAUAUAUUAUUAUAGAGUAUUCUGGACCGAGGCUUCAUCCCCCUAACAU
Bn. sRNA3787075_0_1_3_0                  ..... GGAUGUUGUCUGGACCGAGGA .....
Bn. sRNA3351375_0_1_0_0                  ..... GAAUGUUGUCUGGACCGAGGA .....
Bn. sRNA2188152_0_1_0_0                  ..... AUGUAUAUAGAGUAUUCUGGAC .....
Bn. sRNA5349559_0_1_0_0                  ..... UUCUGGACCGAGGCUUCAUCC .....
Bn. sRNA4752522_0_0_0_2                  ..... UCUGGACCGAGGCUUCAUCC .....
Bn. sRNA4752523_1_0_0_0                  ..... UCUGGACCGAGGCUUCAUCC .....
Bn. sRNA3072599_0_1_0_0                  ..... CUCGACCGAGGCUUCAUC .....
Bn. sRNA3072600_0_2_0_0                  ..... CUCGACCGAGGCUUCAUCC .....
Bn. sRNA3072601_1_0_0_0                  ..... CUCGACCGAGGCUUCAUCC .....
Bn. sRNA3072602_1_2_0_0                  ..... CUCGACCGAGGCUUCAUCC .....
Bn. sRNA4694620_0_0_3_2                  ..... UCGGACCGAGGCUUCA .....
Bn. sRNA4694633_4_3_11_0                  ..... UCGGACCGAGGCUUCA .....
Bn. sRNA4694636_0_4_0_0                  ..... UCGGACCGAGGCUUCAUC .....
Bn. sRNA4694639_11_17_11_10              ..... UCGGACCGAGGCUUCAUC .....
Bn. sRNA4694642_19_20_6_3                ..... UCGGACCGAGGCUUCAUCC .....
Bn. sRNA4694644_5_7_17_5                ..... UCGGACCGAGGCUUCAUCC .....
Bn. sRNA4694646_331_444_290_210          ..... UCGGACCGAGGCUUCAUCC .....
Bn. sRNA4694648_0_0_3_0                  ..... UCGGACCGAGGCUUCAUCC .....
Bn. sRNA2903030_0_1_0_0                  ..... CGGACCGAGGCUUCAUCC .....
Bn. sRNA2903031_0_1_3_0                  ..... CGGACCGAGGCUUCAUCC .....
Bn. sRNA2903032_7_11_0_0                ..... CGGACCGAGGCUUCAUCC .....
Bn. sRNA3791953_0_1_0_0                  ..... GGACCGAGGCUUCAUCC .....
Bn. sRNA3791954_3_3_0_3                  ..... GGACCGAGGCUUCAUCC .....
```

```
A---  A  A  UU  A      A  CAC  CA  -  ACA
      GUUG GGGG AUG  GUCUGG CCGAGGAUUAU UAUA  ACAUA  UAUAUAUG UUGAU  \
      CAU  CCCC UAC  CCGACC GGCUCUUAUGA AUAU  UGUAU  AUAUAUAC AACUA  A
UGUA  C  C  UU  A      G  A--  A-  U  GUG
```

miRNA: Bn. sRNA4694646_331_444_290_210
miRNA*: Bn. sRNA3787075_0_1_3_0

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Bna-miR166c

```
Bna-miR166c_AC189591_-_50396_50505      CAGGUGGAUGAUGCUUGGCUCGAGACCAUAAAUAUGAUAUUGUGAUGUUGAUGAUGAUGAUGAUAAGUAUAUAGUCGGACCGAGGCUUCAUCCCCCUAACUUA
Bn. sRNA5048936_2_7_11_3                  .... UGGAUGAUGCUUGGCUCGAGA .....
Bn. sRNA4056190_8_6_11_2                  ..... GUCGGACCGAGGCUUCAUCC .....
Bn. sRNA4056191_0_0_0_2                  ..... GUCGGACCGAGGCUUCAUCC .....
Bn. sRNA4694620_0_0_3_2                  ..... UCGGACCGAGGCUUCA .....
Bn. sRNA4694633_4_3_11_0                  ..... UCGGACCGAGGCUUCAU .....
Bn. sRNA4694657_3_7_3_2                  ..... UCGGACCGAGGCUUCAU .....
Bn. sRNA4694665_18_26_3_2                ..... UCGGACCGAGGCUUCAU .....
Bn. sRNA4694669_36_79_29_17              ..... UCGGACCGAGGCUUCAU .....
Bn. sRNA4694673_52_44_20_22              ..... UCGGACCGAGGCUUCAU .....
Bn. sRNA4694675_5697_4659_2414_2119      ..... UCGGACCGAGGCUUCAUCC .....
Bn. sRNA4694681_7_7_14_7                  ..... UCGGACCGAGGCUUCAUCC .....
Bn. sRNA2903034_1_2_0_0                  ..... CGGACCGAGGCUUCAUCC .....
Bn. sRNA2903036_2_2_3_0                  ..... CGGACCGAGGCUUCAUCC .....
Bn. sRNA2903038_140_117_11_3              ..... CGGACCGAGGCUUCAUCC .....
Bn. sRNA2903040_0_1_0_0                  ..... CGGACCGAGGCUUCAUCC .....
Bn. sRNA3791955_0_0_0_2                  ..... GGACCGAGGCUUCAUCC .....
Bn. sRNA3791956_33_25_20_8                ..... GGACCGAGGCUUCAUCC .....
```

```
C-----  U  U  CU  GAC-  AA--|  G  UG  G  G
      AGG GGAUGA GCUUGG CGA  CAUUA  UAU AUCAU  U AU U
      UCC CUUACU CCGACC GCU  GUAUU  AUA UAGUA  A UA U
CAUUAAC  C  U  AG  GAUA  AGUA^  G  GU  G  G
```

miRNA: Bn. sRNA4694675_5697_4659_2414_2119
miRNA*: Bn. sRNA5048936_2_7_11_3

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Bna-miR167c

```
Bna-miR167c_AC189327_-_168_280      CCGGCAUCUGAUGAAGCUGCCAGCAUGAUCUAGUUAACUUUUUUCUCCGUUGUUUAUCCAUGACAAUGGAAAAGGGAUAAGUGUCGAUUAGAUCAGUUCGUAGUUUCACCC
Bn. sRNA4773673_1_2_6_5              ..... UCUGAUGAAGCUGCCAGCAUG. ....
Bn. sRNA3567279_0_1_3_0              ..... GAUGAAGCUGCCAGCAUGAUCUA. ....
Bn. sRNA2064738_0_1_0_0              ..... AUGAAGCUGCCAGCAUGAUCU. ....
Bn. sRNA2064739_0_0_2                ..... AUGAAGCUGCCAGCAUGAUCUA. ....
Bn. sRNA4855991_0_2_23_19            ..... UGAAGCUGCCAGCAU. ....
Bn. sRNA4856038_3_8_425_34           ..... UGAAGCUGCCAGCAUG. ....
Bn. sRNA4856039_90_155_1633_1211     ..... UGAAGCUGCCAGCAUGA. ....
Bn. sRNA4856081_6_17_164_71          ..... UGAAGCUGCCAGCAUGAU. ....
Bn. sRNA4856107_192_271_1157_1022    ..... UGAAGCUGCCAGCAUGAUC. ....
Bn. sRNA4856120_291_445_2512_1541    ..... UGAAGCUGCCAGCAUGAUCU. ....
Bn. sRNA4856121_42571_69841_195410_237219 ..... UGAAGCUGCCAGCAUGAUCUA. ....
Bn. sRNA4856141_87_102_293_304       ..... UGAAGCUGCCAGCAUGAUCUAG. ....
Bn. sRNA4856157_0_5_0_3              ..... UGAAGCUGCCAGCAUGAUCUAGU. ....
Bn. sRNA3316423_0_0_3_0              ..... GAAGCUGCCAGCAUG. ....
Bn. sRNA3316424_0_6_6_0              ..... GAAGCUGCCAGCAUGA. ....
Bn. sRNA3316427_0_0_3_0              ..... GAAGCUGCCAGCAUGAU. ....
Bn. sRNA3316431_1_4_0_0              ..... GAAGCUGCCAGCAUGAUC. ....
Bn. sRNA3316433_2_6_9_2              ..... GAAGCUGCCAGCAUGAUCU. ....
Bn. sRNA3316434_542_778_287_83       ..... GAAGCUGCCAGCAUGAUCUA. ....
Bn. sRNA3316436_1_3_0_0              ..... GAAGCUGCCAGCAUGAUCUAG. ....
Bn. sRNA532960_0_1_0_0              ..... AAGCUGCCAGCAUGA. ....
Bn. sRNA532962_2_1_0_0              ..... AAGCUGCCAGCAUGAUCU. ....
Bn. sRNA532963_72_147_63_19         ..... AAGCUGCCAGCAUGAUCUA. ....
Bn. sRNA532966_1_1_0_0              ..... AAGCUGCCAGCAUGAUCUAG. ....
Bn. sRNA532967_0_0_0_2              ..... AAGCUGCCAGCAUGAUCUAGU. ....
Bn. sRNA1445373_0_0_0_2              ..... AGCUGCCAGCAUGAUCUA. ....
Bn. sRNA3120513_0_0_3_0              ..... CUGCCAGCAUGAUCUA. ....
Bn. sRNA4970108_0_1_14_3            ..... UGCCAGCAUGAUCUA. ....
Bn. sRNA2457669_1_0_0_0              ..... CAAUGGAAAAGGGAUAAGUGUCGAU. ....
Bn. sRNA2235983_0_0_0_2              ..... AUUAGAUCAGUUCGUAGUUUCAC. .
Bn. sRNA4388512_0_1_0_0              ..... UAGAUCAGUUCGUAGUUUCA. .
Bn. sRNA1334538_0_0_0_2              ..... AGAUCAGUUCGUAGUUUCACC.
Bn. sRNA3553134_0_1_0_0              ..... GAUCAUGUUCGUAGUUU. . .
Bn. sRNA3553136_1_0_0_0              ..... GAUCAUGUUCGUAGUUUCA. .
Bn. sRNA3553139_113_120_161_238     ..... GAUCAUGUUCGUAGUUUCACC.
Bn. sRNA1968270_1_1_9_8              ..... AUCAUGUUCGUAGUUUCACC.
Bn. sRNA1968272_1_0_0_2              ..... AUCAUGUUCGUAGUUUCACCC
Bn. sRNA2209238_0_1_0_2              ..... AUGUUCGUAGUUUCACC.
```

```
CCGGCAUCUGA      C      UA -   UU ---|   UAU
      UGAAGCUGC AGCAUGAUCUAGU AC UUUAU C  UCCGUUGUU \
      ACUUUGAUG UUGUACUAGAUUA UG GAAUA G  AGGUAACAG C
C-----CC      C      GC U   GG AAA^   UAC
```

miRNA: Bn. sRNA4856121_42571_69841_195410_237219
miRNA*: Bn. sRNA3553139_113_120_161_238

Bna-miR167d

Bna-miR167d_UC96481_+_199_288	UUUUGGGAGGCUGAAGCUGCCAGCAUGAUCUGUGUAUAGAUAGUGGUACCAGAUAUCCUGCGGCUUCAUUCACUAAAUCACCAACAAU
Bn. sRNA3099511_0_0_0_2	..... CUGAAGCUGCCAGCAUGA.....
Bn. sRNA3099514_2_0_3_3	..... CUGAAGCUGCCAGCAUGAUCU.....
Bn. sRNA3099518_0_0_0_2	..... CUGAAGCUGCCAGCAUGAUCUG.....
Bn. sRNA4855991_0_2_23_19	..... UGAAGCUGCCAGCAU.....
Bn. sRNA4856038_3_8_425_34	..... UGAAGCUGCCAGCAUG.....
Bn. sRNA4856039_90_155_1633_1211	..... UGAAGCUGCCAGCAUGA.....
Bn. sRNA4856081_6_17_164_71	..... UGAAGCUGCCAGCAUGAU.....
Bn. sRNA4856107_192_271_1157_1022	..... UGAAGCUGCCAGCAUGAUC.....
Bn. sRNA4856120_291_445_2512_1541	..... UGAAGCUGCCAGCAUGAUCU.....
Bn. sRNA4856198_33_44_123_176	..... UGAAGCUGCCAGCAUGAUCUG.....
Bn. sRNA4856203_0_0_11_10	..... UGAAGCUGCCAGCAUGAUCUGU.....
Bn. sRNA3316423_0_0_3_0	..... GAAGCUGCCAGCAUG.....
Bn. sRNA3316424_0_6_6_0	..... GAAGCUGCCAGCAUGA.....
Bn. sRNA3316427_0_0_3_0	..... GAAGCUGCCAGCAUGAU.....
Bn. sRNA3316431_1_4_0_0	..... GAAGCUGCCAGCAUGAUC.....
Bn. sRNA3316433_2_6_9_2	..... GAAGCUGCCAGCAUGAUCU.....
Bn. sRNA3316441_0_1_3_0	..... GAAGCUGCCAGCAUGAUCUG.....
Bn. sRNA532960_0_1_0_0	..... AAGCUGCCAGCAUGA.....
Bn. sRNA532962_2_1_0_0	..... AAGCUGCCAGCAUGAUCU.....
Bn. sRNA1334281_1_0_0_0	..... AGAUAUCCUGCGGCUUCA.....
Bn. sRNA1334282_26_27_14_14	..... AGAUAUCCUGCGGCUUCAU.....
Bn. sRNA4982182_0_0_3_0	..... UGCGGCUUCAUUCACUAAA.....

```

U-----|   A GC       C C       U   AGA
          UUUGGG G  UGAAGCUGC AG AUGAUCUG GUAU  U
          AAACUC C  ACUUCGGCG UC UACUAGAC CAUG  A
UAACAACCACU^  A UU       - C       -   GUG

```

miRNA: Bn. sRNA4856120_291_445_2512_1541
miRNA*: Bn. sRNA1334282_26_27_14_14

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Bna-miR168b

Bna-miR168b_AC232514_+_114778_114907	ACCGUCUUGCUCGGAUUCGCUUGGUCAGGUCGGGAACAAUUGUCUGACACAUCCAGAAUUUUAUCUGCGGUUUGAGCAGGGAUUGGAUCCCGCCUUGCAUCAAUUGAAUCGGAGUCCUGAUGG
Bn. sRNA2763551_0_0_0_2	. CCGUCUUGCUCGGAUUCGCUUGGU.....
Bn. sRNA3073391_0_1_0_0	..... CUCGGAUUCGCUUGGU.....
Bn. sRNA3073392_2_0_9_2	..... CUCGGAUUCGCUUGGUCAGG.....
Bn. sRNA3073393_0_1_0_0	..... CUCGGAUUCGCUUGGUCAGGUCG.....
Bn. sRNA3607937_0_0_0_2	..... GAUUCGCUUGGUCAGGUCGG.....
Bn. sRNA2266594_1_0_0_0	..... AUUCGCUUGGUCAGGUCGGAA.....
Bn. sRNA5332174_0_0_0_2	..... UUCGCUUGGUCAGG.....
Bn. sRNA5332180_0_1_0_0	..... UUCGCUUGGUCAGGUCGG.....
Bn. sRNA5332181_274_299_273_335	..... UUCGCUUGGUCAGGUCGGAA.....
Bn. sRNA5332182_9_8_0_0	..... UUCGCUUGGUCAGGUCGGAA.....
Bn. sRNA5332183_1_0_0_0	..... UUCGCUUGGUCAGGUCGGAAAC.....
Bn. sRNA4690395_0_1_0_0	..... UCGCUUGGUCAGGU.....
Bn. sRNA4690473_2_0_3_0	..... UCGCUUGGUCAGGUCGG.....
Bn. sRNA4690489_7_9_17_7	..... UCGCUUGGUCAGGUCGG.....
Bn. sRNA4690490_459_459_830_663	..... UCGCUUGGUCAGGUCGGAA.....
Bn. sRNA4690491_7043_7044_9958_9512	..... UCGCUUGGUCAGGUCGGAA.....
Bn. sRNA4690494_1173_1196_1395_1392	..... UCGCUUGGUCAGGUCGGAAAC.....
Bn. sRNA2891117_7_6_9_3	..... CGCUUGGUCAGGUCGGAA.....
Bn. sRNA2891118_80_56_23_12	..... CGCUUGGUCAGGUCGGAA.....
Bn. sRNA2891119_8_4_0_2	..... CGCUUGGUCAGGUCGGAAAC.....
Bn. sRNA3762592_1_2_17_7	..... GCUUGGUCAGGUCGGAA.....
Bn. sRNA3762593_18_21_57_32	..... GCUUGGUCAGGUCGGAA.....
Bn. sRNA3762594_2_8_9_7	..... GCUUGGUCAGGUCGGAAAC.....
Bn. sRNA3203607_0_0_0_2	..... CUUGGUCAGGUCGGAA.....
Bn. sRNA3203608_0_0_9_0	..... CUUGGUCAGGUCGGAA.....
Bn. sRNA3203609_1_0_0_0	..... CUUGGUCAGGUCGGAAAC.....
Bn. sRNA5446448_0_0_3_0	..... UUGGUCAGGUCGGAA.....
Bn. sRNA5446449_0_2_0_2	..... UUGGUCAGGUCGGAA.....
Bn. sRNA5108896_0_0_0_2	..... UGGUCAGGUCGGAA.....
Bn. sRNA3948409_0_0_3_2	..... GGUCAGGUCGGAA.....
Bn. sRNA3948410_1_0_0_0	..... GGUCAGGUCGGAAAC.....
Bn. sRNA2727366_0_0_0_2	..... CCCGCCUUGCAUCAA.....
Bn. sRNA2727367_0_0_0_2	..... CCCGCCUUGCAUCAAUGAU.....

A UU- G C U A G A- U-| CG UU
 CCGUC GCUC GAUUCG UUGGUGCAGG CCGGA CCAAUU UCUG CACA CCA AAG \
 GGUAG UGAG CUAAGU AACUACGUUC GCCCU GGUUAG GGAC GUGU GGU UUC U
 - UCC G A C A - GA UU^ CG AU

miRNA: Bn. sRNA4690491_7043_7044_9958_9512
 miRNA*: Bn. sRNA2727367_0_0_0_2

Bna-miR168a

Bna-miR168a_AC189658_-_43455_43584	AUGUUACGGCGGCCUCGACUCGCUUGGUGCAGGUCGGGAACUGAUUGGCUGACCCGCCACGUGCUUCCAUGGUGCUUGAGCAGGGAUCGGAUCCCGCCUUGUAUCAAGGAAUCCGAGUCCG
Bn. sRNA1065026_1_0_0_0	..... ACUCGCUUGGUGCAGGUCGGG.....
Bn. sRNA1065027_0_0_0_2	..... ACUCGCUUGGUGCAGGUCGGGA.....
Bn. sRNA3071826_2_2_6_3	..... CUCGCUUGGUGCAGGUCGGGA.....
Bn. sRNA3071827_8_10_3_2	..... CUCGCUUGGUGCAGGUCGGGAA.....
Bn. sRNA3071828_0_3_0_0	..... CUCGCUUGGUGCAGGUCGGGAAC.....
Bn. sRNA4690395_0_1_0_0	..... UCGCUUGGUGCAGGU.....
Bn. sRNA4690473_2_0_3_0	..... UCGCUUGGUGCAGGUCGG.....
Bn. sRNA4690489_7_9_17_7	..... UCGCUUGGUGCAGGUCGGG.....
Bn. sRNA4690490_459_459_830_663	..... UCGCUUGGUGCAGGUCGGGA.....
Bn. sRNA4690491_7043_7044_9958_9512	..... UCGCUUGGUGCAGGUCGGGA.....
Bn. sRNA4690494_1173_1196_1395_1392	..... UCGCUUGGUGCAGGUCGGGAAC.....
Bn. sRNA4690497_1_4_0_0	..... UCGCUUGGUGCAGGUCGGGAACU.....
Bn. sRNA4690498_8_6_17_8	..... UCGCUUGGUGCAGGUCGGGAACUG.....
Bn. sRNA2891117_7_6_9_3	..... CGCUUGGUGCAGGUCGGGA.....
Bn. sRNA2891118_80_56_23_12	..... CGCUUGGUGCAGGUCGGGAA.....
Bn. sRNA2891119_8_4_0_2	..... CGCUUGGUGCAGGUCGGGAAC.....
Bn. sRNA2891120_0_1_0_0	..... CGCUUGGUGCAGGUCGGGAACU.....
Bn. sRNA3762592_1_2_17_7	..... GCUUGGUGCAGGUCGGGA.....
Bn. sRNA3762593_18_21_57_32	..... GCUUGGUGCAGGUCGGGA.....
Bn. sRNA3762594_2_8_9_7	..... GCUUGGUGCAGGUCGGGAAC.....
Bn. sRNA3762595_0_0_3_0	..... GCUUGGUGCAGGUCGGGAACU.....
Bn. sRNA3762596_2_1_3_0	..... GCUUGGUGCAGGUCGGGAACUG.....
Bn. sRNA3203607_0_0_0_2	..... CUUGGUGCAGGUCGGGA.....
Bn. sRNA3203608_0_0_9_0	..... CUUGGUGCAGGUCGGGA.....
Bn. sRNA3203609_1_0_0_0	..... CUUGGUGCAGGUCGGGAAC.....
Bn. sRNA3203610_0_3_3_2	..... CUUGGUGCAGGUCGGGAACUG.....
Bn. sRNA5446448_0_0_3_0	..... UUGGUGCAGGUCGGGA.....
Bn. sRNA5446449_0_2_0_2	..... UUGGUGCAGGUCGGGA.....
Bn. sRNA5108896_0_0_0_2	..... UGGUGCAGGUCGGGA.....
Bn. sRNA5108898_0_1_0_0	..... UGGUGCAGGUCGGGAACUGAU.....
Bn. sRNA3948409_0_0_3_2	..... GGUGCAGGUCGGGA.....
Bn. sRNA3948410_1_0_0_0	..... GGUGCAGGUCGGGAAC.....
Bn. sRNA3948411_1_0_0_0	..... GGUGCAGGUCGGGAACUGAUUGGCU.....
Bn. sRNA4631640_0_0_3_2	..... UCCGCCUUGUAUCAAGUGAAU.....
Bn. sRNA2727399_0_0_3_0	..... CCCGCCUUGUAUCAAGUGAA.....
Bn. sRNA2727400_1_0_9_5	..... CCCGCCUUGUAUCAAGUGAAU.....
Bn. sRNA2747584_0_1_0_0	..... CCGCCUUGUAUCAAGUGAAU.....

AUGUUACGG C U C U A G-- G CC --| C
 CGG CUC GA UCGCUUGGUGCAGG CCGGA CUGAUU GCU ACA GCCA CGUGG U
 GCC GAG CU AGUGAACUAUGUUC GCCCU GGCUAG CGA UGU CGGU GUACC U
 ----- U C A C A GGA G U- UG^ U

miRNA: Bn. sRNA4690491_7043_7044_9958_9512
 miRNA*: Bn. sRNA2727400_1_0_9_5

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Bna-miR169n

Bna-miR169n_AC190048_+_65016_65165 AGAAUUGCAUGAAGUGGAGUAGAGUAUAAUGCAGCCAAGGAUGACUUGCCGGAGGUGCUUCAUCAUGCAUAAUAAUUGGUGAUGAACAAUUCUGGCAAGUUGCCUUCGGCUACAUUUUGCUCUCUUCUACUCAUGCAAACUCUC
Bn. sRNA5407548_1_0_0_0 UUGCAUGAAGUGGAGUAGAGUA
Bn. sRNA2066264_0_1_0_0 AUGAAGUGGAGUAGAGUAUAAU
Bn. sRNA4861168_0_0_3_0 UGAAGUGGAGUAGAGUAUAAU
Bn. sRNA4861169_1_1_0_0 UGAAGUGGAGUAGAGUAUAAUG
Bn. sRNA4861171_0_1_0_0 UGAAGUGGAGUAGAGUAUAAUGC
Bn. sRNA4861172_0_1_0_0 UGAAGUGGAGUAGAGUAUAAUGCAG
Bn. sRNA2109763_1_0_0_0 AUGCAGCCAAGGAUGACUUGC
Bn. sRNA2552062_1_2_0_0 CAGCCAAGGAUGACUUGC
Bn. sRNA2552065_0_3_3_8 CAGCCAAGGAUGACUUGCCG
Bn. sRNA2552068_89_42_296_183 CAGCCAAGGAUGACUUGCCG
Bn. sRNA1403024_10_6_9_5 AGCCAAGGAUGACUUGCCG
Bn. sRNA1403025_2_1_6_0 AGCCAAGGAUGACUUGCCGA
Bn. sRNA2679528_0_1_0_0 CCAAGGAUGACUUGCCGGAG
.....

AGAA--| A U U C - AU GGUC G UAAU
UUGCAUGA GUGGAG AGAGUA AAUG AGCC AAGG GACUUGCCGGAG GUUCAUCAU CA \
AACGUACU CAUCUU UCUCGU UUAC UCGG UUCC UUGAACGGUCUU CAAGUAGUG GU A
CUCUCA^ - C U A C CG AAUA - UUAU

miRNA: Bn. sRNA2552068_89_42_296_183

Bna-miR169b

Bna-miR169b_AC189369_+_97775_97795 AGUGUGCAGCCAAGGAUGACUUGCCGAUUUGAAUUAUUUUUAAUACUUUACUUAAGACAUUUUCAGUUUCAAAUUUGUCUUGGAGAGGCUAGGAAGAAUUACAUAUUUUCGUUUUAAAAGAAAAAUUGAUGCCGCAAGUUUCCUUGGCUACAUGUU
Bn. sRNA2552062_1_2_0_0 CAGCCAAGGAUGACUUGC
Bn. sRNA2552065_0_3_3_8 CAGCCAAGGAUGACUUGCCG
Bn. sRNA2552066_12_11_49_37 CAGCCAAGGAUGACUUGCCGA
Bn. sRNA1403023_1_0_0_0 AGCCAAGGAUGACUUGCCGA
.....

UG C U UGAAU AAUACUUUACUAAGACAUCUUUCAGUUUCAAAUUUGUCUUG
AG UG AGCCAAGGA GACUUGCCGAUU AUUUUUU G
UU AC UCGGUUCCU UUGAACGGCUAG UAUAAAAA A
GU A U ----- -AGAAUUUGAUGCUUUUUUAACAUAUAAAGAAGGAUCGGAG

miRNA: Bn. sRNA2552066_12_11_49_37

Bna-miR169k

Bna-miR169k_AC189356_+133113_133133 GUGUGGUAGCCAAGGAUGACUUGCCUGCGUCUUAAACACCAUAUCACAGACUUUAUCGAUAGUCUCUGAGUUGGUUAGGCGUAGGCAGUCUCCUCCGCUAUUCAGAC
Bn. sRNA4396532_3_1_0_0 UAGCCAAGGAUGACUUGCCUG
.....

G -| A U U U AC UA C UUA
GU UG GUAGCC AGGA GACU GCCUGCG CUUA ACCA UCA AGACU U
CA AC UAUCGG UCCU CUGA CGGAUGU GGAU UGGU AGU UCUGA C
G U^ C - - C -- UG C UAG

miRNA: Bn. sRNA4396532_3_1_0_0

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Bna-miR171b

Bna-miR171b_CU695304_+36506_36620 GAUGUAAGGUAACGCGAGAUUUAGUGCGGUUCAAUCAAUAGUCGUGUUCACUUGAUAGAGAUCGGUUUUUGUUCGAUUGAGCCGUGCCAAUAUCACGCGUCAACCCAAAACG
Bn. sRNA2839461_1_0_3_8 CGAGAUUUUAGUGCGGUUCA
Bn. sRNA1331648_1_0_0_0 AGAUUUUAGUGCGGUUCA
Bn. sRNA1331649_0_1_0_0 AGAUUUUAGUGCGGUUCA
Bn. sRNA1331651_47_64_26_52 AGAUUUUAGUGCGGUUCA
Bn. sRNA3546843_5_4_0_0 GAUUAUAGUGCGGUUCA
Bn. sRNA1915458_0_0_3_0 AUUUUAGUGCGGUUCA
Bn. sRNA5390683_0_0_0_2 UUGAGCCGUGCCAAUAU
Bn. sRNA5390684_0_0_0_2 UUGAGCCGUGCCAAUAUC
Bn. sRNA5390685_0_0_0_2 UUGAGCCGUGCCAAUAUCA
Bn. sRNA5390686_0_2_3_2 UUGAGCCGUGCCAAUAUCAC
Bn. sRNA5390687_2_2_9_8 UUGAGCCGUGCCAAUAUCACG
Bn. sRNA5390688_0_0_0_3 UUGAGCCGUGCCAAUAUCACGC
.....

GAUGUAA A-| A A UG A UCG U ACU
GGU ACGCG GAUAAU G CGGUCAAUC AAUAG UG UCUC U
CCA UGCGC CUAAUA C GCCGAGUUAG UUGUU GC AGAG G

GCAAAAC AC^ A C GU C UUG U AUA

miRNA Bn. sRNA5390687_2_2_9_8
miRNA* Bn. sRNA1331651_47_64_26_52

Bna-miR171f

Bna-miR171f_AC189627_-36069_36184 AAAGAGUCCUUCUUGAUUUGGCCUGGUUCACUCAGAUUCUCCAGAUUACACACGUACUUAUUAUUAUUCUCAGUUAUCUGAUUGAGCCGCGCCAAUUCUCAGUGCUCUCUGU
Bn. sRNA4509321_5_1_3_3 UAUUGGCCUGGUUCACUCAGA
Bn. sRNA5272971_2_4_3_0 UUAUCUGAUUGAGCCGCGCCA
Bn. sRNA4946449_0_0_3_0 UGAUUGAGCCGCGCC
Bn. sRNA4946450_1_1_14_3 UGAUUGAGCCGCGCCAAUA
Bn. sRNA4946452_0_1_0_0 UGAUUGAGCCGCGCCAAUAU
Bn. sRNA4946454_39_53_261_96 UGAUUGAGCCGCGCCAAUAUC
Bn. sRNA3611009_0_1_6_2 GAUUGAGCCGCGCCAAUAUC
Bn. sRNA4905022_0_0_0_2 UGAGCCGCGCCAAUAUC

AA---| UC CUUU C C -- UCC UUACACACGU
AGAG CU GAUUAUUGG UGGUUCU UCAGAU CU AGA \
UCUC GA CUAUAACCG GCCGAGU AGUCUA GA UCU A
UGCUC^ GU CU-- C U UU CUC UACAUUAUUC

miRNA: Bn. sRNA4509321_5_1_3_3
miRNA*: Bn. sRNA4946454_39_53_261_96

Bna-miR171e

Bna-miR171e_AC189214_-74594_74574 ACAAUACGAGAUUUGGUGUGGUUCAAUACAGAAAACCACACUCUUUUGUUGUAGAGAUUCGGUUUGUUUGAUUGAGCCGUGCCAAUUAUCACGAGUGU
Bn. sRNA5453531_0_1_0_0 UUGUAGAGAUUCGGUUUGUUUGA
Bn. sRNA4946478_0_0_0_2 UGAUUGAGCCGUGCCAAUA
Bn. sRNA4946479_0_2_9_3 UGAUUGAGCCGUGCCAAUAUC
Bn. sRNA5390683_0_0_0_2 UUGAGCCGUGCCAAUAU
Bn. sRNA5390684_0_0_0_2 UUGAGCCGUGCCAAUAUC
Bn. sRNA5390685_0_0_0_2 UUGAGCCGUGCCAAUAUCA
Bn. sRNA5390686_0_2_3_2 UUGAGCCGUGCCAAUAUCAC
Bn. sRNA5390687_2_2_9_8 UUGAGCCGUGCCAAUAUCAG

AUA A UG - ACA UUU
ACA CG GAUAUUGG UGGUCAAUCAGA AAACC CUCU G
UGU GC CUAUAACC GCCGAGUUAGUUU UUUGG GAGA U
GA- A GU G CUA UGU

miRNA: Bn. sRNA4946479_0_2_9_3

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Bna-miR172d

Bna-miR172d_AC189487+_133692_133804 UUUUUGCUAUUGCAUCAUCAAGAUAUCAGAAAUCAUAUUCUUGAUGGGUUCUCCUUCGAGCCUGUCUUUUUUGGUUUGAGAAUCUUGAUGAUGCUGCAGCGGCGAUUAAA
Bn. sRNA3664360_1_0_3_0 GCAUCAUCAUCAAGAUUCAG
Bn. sRNA3664361_0_1_0_2 GCAUCAUCAUCAAGAUUCAGA
Bn. sRNA4894667_0_0_3_0 UGAGAAUCUUGAUGAUGCUGCA
Bn. sRNA4894668_0_3_0_5 UGAGAAUCUUGAUGAUGCUGCAG
Bn. sRNA3427075_0_0_0_2 GAGAAUCUUGAUGAUGCUGC
Bn. sRNA3427076_22_22_66_95 GAGAAUCUUGAUGAUGCUGCA
Bn. sRNA1198446_0_0_3_2 AGAAUCUUGAUGAUGC
Bn. sRNA1198459_1_1_0_2 AGAAUCUUGAUGAUGCU
Bn. sRNA1198470_1_3_3_3 AGAAUCUUGAUGAUGCUG
Bn. sRNA1198479_4_1_26_15 AGAAUCUUGAUGAUGCUGC
Bn. sRNA1198480_31_21_141_103 AGAAUCUUGAUGAUGCUGCA
Bn. sRNA1198483_913_713_3761_4455 AGAAUCUUGAUGAUGCUGCAG
Bn. sRNA3344683_1_3_0_0 GAAUCUUGAUGAUGCUGCA
Bn. sRNA3344685_23_34_0_0 GAAUCUUGAUGAUGCUGCAG
Bn. sRNA4813769_0_0_3_0 UCUUGAUGAUGCUGCA
Bn. sRNA3194496_0_1_11_0 CUUGAUGAUGCUGCAG
Bn. sRNA5398762_0_0_0_2 UUGAUGAUGCUGCAG

UUU--| UA U AG UAUCCUU UC
UUGC UUGCA CAUCAUCAAGAUUC AAAUCA GAUGGGUUC C
AGCG GACGU GUAGUAGUUCUAAG UUUGGU CUGUCCGAG U
AAAUU^ GC C AG UUUUU-- CU

miRNA: Bn. sRNA1198483_913_713_3761_4455
miRNA*: Bn. sRNA3664361_0_1_0_2

Bna-miR172b

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Bna-miR172b_AC189648_-_23979_24073      UAGUUGCAGAUUGCAGCAUCAUUAAGAUAACAAGAGAUUGGUUUUCUUGUUUCUCGCCUCUUGGAAUCUUGAUGAUGCUGCAUCAGCAACUA
Bn. sRNA4960976_0_0_3_0                  ..... UGCAGCAUCAUUAAGAUAACAC .....
Bn. sRNA3651609_3_1_14_12                 ..... GCAGCAUCAUUAAGAUAACA .....
Bn. sRNA5436372_1_0_0_0                   ..... UUGGAAUCUUGAUGAUGCUGCA .....
Bn. sRNA5436373_15_17_20_34               ..... UUGGAAUCUUGAUGAUGCUGCA .....
Bn. sRNA5072730_2_0_3_0                   ..... UGGAAUCUUGAUGAUGCUGC .....
Bn. sRNA5072731_5_6_3_0                   ..... UGGAAUCUUGAUGAUGCUGCA .....
Bn. sRNA3868937_0_2_0_0                   ..... GGGAAUCUUGAUGAUGCUGCA .....
Bn. sRNA3868939_23_24_11_32               ..... GGGAAUCUUGAUGAUGCUGCA .....
Bn. sRNA3785704_1_1_6_5                   ..... GGAUCUUGAUGAUGCUGCA .....
Bn. sRNA3785707_178_118_373_433          ..... GGAUCUUGAUGAUGCUGCA .....
Bn. sRNA3344683_1_3_0_0                   ..... GAAUCUUGAUGAUGCUGCA .....
Bn. sRNA3344687_356_250_0_7               ..... GAAUCUUGAUGAUGCUGCA .....
Bn. sRNA710791_0_0_6_3                    ..... AAUCUUGAUGAUGCUGCA .....
Bn. sRNA2047687_1_2_3_0                   ..... AUCUUGAUGAUGCUGCA .....
Bn. sRNA4813769_0_0_3_0                   ..... UCUUGAUGAUGCUGCA .....
Bn. sRNA4813773_0_0_3_0                   ..... UCUUGAUGAUGCUGCA .....
Bn. sRNA3194499_0_0_9_0                   ..... CUUGAUGAUGCUGCA .....
Bn. sRNA5398764_3_0_9_2                   ..... UUGAUGAUGCUGCA .....

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      A           A   A U UUUUC
UAGUUGC GAUGCAGCAUCAUUAAGAUAACAAGAG UG GG \
AUCAACG CUACGUCGUAGUAGUUCUAAG GUUCUC GC CU U
      A           G   C U UUUGU

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miRNA: Bn. sRNA3785707_178_118_373_433
miRNA*: Bn. sRNA3651609_3_1_14_12

Bna-miR172c

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Bna-miR172c_AC189559_-_129994_130131    CAGCCGGUAGUUGCAGAUUGCAGCAUCAUUAAGAUAACAAGAGUUGGUUUUCUUGUUUCGCCUCUCCAUCCGAAAACAAAGGUUCUUCGAAUGGAAUCUUGAUGAUGCUGCAUCAGCAUAUACAUGGCCUA
Bn. sRNA3651598_1_0_3_0                  ..... GCAGCAUCAUUAAGAUAACAC .....
Bn. sRNA3651599_4_1_9_3                 ..... GCAGCAUCAUUAAGAUAACA .....
Bn. sRNA743206_0_0_3_0                   ..... AAUGGAAUCUUGAUGAUGCUGCA .....
Bn. sRNA2161127_2_1_0_2                   ..... AUGGAAUCUUGAUGAUGCUGCA .....
Bn. sRNA5072730_2_0_3_0                   ..... UGGAAUCUUGAUGAUGCUGC .....
Bn. sRNA5072731_5_6_3_0                   ..... UGGAAUCUUGAUGAUGCUGCA .....
Bn. sRNA3868937_0_2_0_0                   ..... GGGAAUCUUGAUGAUGCUGCA .....
Bn. sRNA3868939_23_24_11_32               ..... GGGAAUCUUGAUGAUGCUGCA .....
Bn. sRNA3785704_1_1_6_5                   ..... GGAUCUUGAUGAUGCUGCA .....
Bn. sRNA3785707_178_118_373_433          ..... GGAUCUUGAUGAUGCUGCA .....
Bn. sRNA3344683_1_3_0_0                   ..... GAAUCUUGAUGAUGCUGCA .....
Bn. sRNA3344687_356_250_0_7               ..... GAAUCUUGAUGAUGCUGCA .....
Bn. sRNA710791_0_0_6_3                    ..... AAUCUUGAUGAUGCUGCA .....
Bn. sRNA2047687_1_2_3_0                   ..... AUCUUGAUGAUGCUGCA .....
Bn. sRNA4813769_0_0_3_0                   ..... UCUUGAUGAUGCUGCA .....
Bn. sRNA4813773_0_0_3_0                   ..... UCUUGAUGAUGCUGCA .....
Bn. sRNA3194499_0_0_9_0                   ..... CUUGAUGAUGCUGCA .....
Bn. sRNA5398764_3_0_9_2                   ..... UUGAUGAUGCUGCA .....

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C  -| GU A           A AG A U UU G CCUC
AGCCG GUA UGC GAUGCAGCAUCAUUAAGAUAACA UGA G GG UCCUU GUUUUCG U
UCGGU CAU ACG CUACGUCGUAGUAGUUCUAAG GU GCU C UC GGGAA CAAAAGC C
A  A^ AU A           G AA - U UU A CUAC

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miRNA: Bn. sRNA3785707_178_118_373_433
miRNA*: Bn. sRNA3651599_4_1_9_3

Bna-miR172a

Bna-miR172a_AC189388_-19381_19490 UUUUGUAGGCGCAGCACCAUCAAGAUUCACAUGGAAAUUGAAAAUCUCCUAAUUUUAAUUAGGGUUUGAUUUGAUUAGAGAAUCUUGAUGAUGCUGCAUCAACAAC

Bn. sRNA3650968_1_0_0_0 GCAGCACCAUCAAGAUUCAC.

Bn. sRNA3650971_0_1_0_0 GCAGCACCAUCAAGAUUCACAU.

Bn. sRNA1381797_2_0_0_0 AGCACCAUCAAGAUUCACA.

Bn. sRNA2080993_9_2_6_12 AUGAGAAUCUUGAUGAUGCUGCAU.

Bn. sRNA4894667_0_0_3_0 UGAGAAUCUUGAUGAUGCUGCA.

Bn. sRNA4894669_1_1_9_0 UGAGAAUCUUGAUGAUGCUGCAU.

Bn. sRNA3427075_0_0_0_2 GAGAAUCUUGAUGAUGCUGC.

Bn. sRNA3427076_22_22_66_95 GAGAAUCUUGAUGAUGCUGCA.

Bn. sRNA3427077_16_5_20_14 GAGAAUCUUGAUGAUGCUGCAU.

Bn. sRNA1198446_0_0_3_2 AGAAUCUUGAUGAUGC.

Bn. sRNA1198459_1_1_0_2 AGAAUCUUGAUGAUGCU.

Bn. sRNA1198470_1_3_3_3 AGAAUCUUGAUGAUGCUG.

Bn. sRNA1198479_4_1_26_15 AGAAUCUUGAUGAUGCUGC.

Bn. sRNA1198480_31_21_141_103 AGAAUCUUGAUGAUGCUGCA.

Bn. sRNA1198493_4272_3077_5337_6403 AGAAUCUUGAUGAUGCUGCAU.

Bn. sRNA3344683_1_3_0_0 GAAUCUUGAUGAUGCUGCA.

Bn. sRNA3344687_356_250_0_7 GAAUCUUGAUGAUGCUGCAU.

Bn. sRNA710791_0_0_6_3 AAUCUUGAUGAUGCUGCAU.

Bn. sRNA710792_0_1_0_0 AAUCUUGAUGAUGCUGCAUCAACA. ..

Bn. sRNA2047687_1_2_3_0 AUCUUGAUGAUGCUGCAU.

Bn. sRNA4813769_0_0_3_0 UCUUGAUGAUGCUGCA.

Bn. sRNA4813773_0_0_3_0 UCUUGAUGAUGCUGCAU.

Bn. sRNA3194499_0_0_9_0 CUUGAUGAUGCUGCAU.

Bn. sRNA5398764_3_0_9_2 UUGAUGAUGCUGCAU.

UU A GC C A GAA--| UG AAUC U
 UUGU G GCAGCA CAUCAAGAUUC CAUG AU AAA UCCUAAUU \
 AACA C CGUCGU GUAGUUCUAAG GUAU UA UUU GGGAUAA U
 C- A UA A A AUGUA^ GU ---- U

miRNA: Bn. sRNA1198493_4272_3077_5337_6403
 miRNA*: Bn. sRNA3650969_9_14_20_12

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Bna-miR390b

Bna-miR390b_AC189543+_98823_98913 GAAUCUGUAAAGCUCAGGAGGGAUAGCGCAUCAUGAUCACACACAUUGAUUUUUUGGCGCUGUCCAUCCUGAGUUUCAUUGGCUCUUCU

Bn. sRNA709162_1_0_0_0 . AAUCUGUAAAGCUCAGGAGGGA.

Bn. sRNA201149_1_0_0_0 AAAGCUCAGGAGGGAUAG.

Bn. sRNA201150_5_4_0_5 AAAGCUCAGGAGGGAUAGCGC.

Bn. sRNA201151_3_1_3_2 AAAGCUCAGGAGGGAUAGCGCC.

Bn. sRNA201152_0_1_0_0 AAAGCUCAGGAGGGAUAGCGCAU.

Bn. sRNA529219_1_2_0_0 AAGCUCAGGAGGGAUAGC.

Bn. sRNA529222_6_2_0_2 AAGCUCAGGAGGGAUAGCG.

Bn. sRNA529224_5_1_3_5 AAGCUCAGGAGGGAUAGCGC.

Bn. sRNA529226_763_402_428_189 AAGCUCAGGAGGGAUAGCGCC.

Bn. sRNA529227_0_3_0_2 AAGCUCAGGAGGGAUAGCGCCA.

Bn. sRNA529228_1_1_0_0 AAGCUCAGGAGGGAUAGCGCCAUC.

Bn. sRNA1438013_1_1_0_0 AGCUCAGGAGGGAUAGC.

Bn. sRNA1438016_27_13_6_2 AGCUCAGGAGGGAUAGCGCC.

Bn. sRNA1438017_0_0_0_2 AGCUCAGGAGGGAUAGCGCCA.

Bn. sRNA3734586_0_1_0_0 GCUCAGGAGGGAUAGCGCC.

Bn. sRNA4576765_0_1_0_0 UCAGGAGGGAUAGCGCC.

Bn. sRNA1507187_1_1_3_0 AGGAGGGAUAGCGCC.

Bn. sRNA2889590_1_0_0_0 CGCUGUCCAUCUGAGUUUC.

Bn. sRNA2889591_20_7_37_17 CGCUGUCCAUCUGAGUUUCA.

Bn. sRNA3753733_1_2_0_0 GCUGUCCAUCUGAGUUUCA.

----| AU U A G UCAUG ACAC
 GA C GU AAGCUCAGGA GGUAAGCGCCA AUC \
 CU G UA UUUGAGUCCU CCUGUCGCGGU UAG A
 UCUU^ CG U C A UUUUA CUAC

miRNA: Bn. sRNA529226_763_402_428_189
 miRNA*: Bn. sRNA2889591_20_7_37_17

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Bna-miR394a

Bna-miR394a_AC189318+_31776_31891 ACAGAGUUCUUUGGCAUUCUGUCCACCUCCUUCUGAAUAUAUUUGUGUAUAAGUGUACGCAACUACGUUGUGUUUGUGAGGAGGUGGGCAUACUGCCAAUAGAGAUCUGUUA
Bn. sRNA5554189_0_0_2 UUUGGCAUUCUGUCCACCUC.....
Bn. sRNA5554190_2_2_20_8 UUUGGCAUUCUGUCCACCUC.....
Bn. sRNA5433222_20_12_109_69 UUUGGCAUUCUGUCCACCUC.....
Bn. sRNA5060025_2_2_0_3 UGGCAUUCUGUCCACCUC.....
Bn. sRNA1613410_4_2_17_5 AGGUGGGCAUACUGCCAAUAG.....
Bn. sRNA1613411_2_0_0_3 AGGUGGGCAUACUGCCAAUAGA.....

-- G - UUC UCU-- U----| A
ACAGA UUCU UUGGCA UGUCCACCUCCU GAAUAUA UUUGUAU A
UGUCU GAGA AACCGU ACGGGUGGAGGAG UUUGUGU AACGCAUG G
AU A U CAU UGUGU UGCAUC^ U

miRNA: Bn. sRNA5433222_20_12_109_69
miRNA*: Bn. sRNA1613410_4_2_17_5

Bna-miR394b

Bna-miR394b_AC189295+_85927_86038 UUACAGAGAUCUUUGGCAUUCUGUCCACCUCCUACCUAUGUAUAUGUGUAUAUUCUACGUUGUGUUUGUGAGGGGGAGGUGGGCAUACUGCCAACAGAGAUCUGUUAGG
Bn. sRNA5227373_0_1_0_0 UUACAGAGAUCUUUGGCAUUC.....
Bn. sRNA5554189_0_0_0 UUUGGCAUUCUGUCCACCUC.....
Bn. sRNA5554190_2_2_20_8 UUUGGCAUUCUGUCCACCUC.....
Bn. sRNA5433222_20_12_109_69 UUUGGCAUUCUGUCCACCUC.....
Bn. sRNA5060025_2_2_0_3 UGGCAUUCUGUCCACCUC.....
Bn. sRNA1613406_1_0_17_14 AGGUGGGCAUACUGCCAACAG.....
Bn. sRNA3954593_1_0_0_0 GGUGGGCAUACUGCCAACAG.....

UU-- GA - UUC -- CU-|UG U UAU
ACAGA UCU UUGGCA UGUCCACCUCCU AC A UA AUGUG \
UGUCU AGA AACCGU ACGGGUGGAGGGG UG U GU UGCAU U
GGAU AG C CAU AG UUU^GU - CUA

miRNA: Bn. sRNA5433222_20_12_109_69
miRNA*: Bn. sRNA1613406_1_0_17_14

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Bna-miR395a

Bna-miR395a_AC189385+_28837_28857 UCCUAGAGUUCUUCUGAGCACUUCUUAUGGGUAUACAAUUUCUUAUGAAGAUUACCCACUGAAGUGUUUGGGGAACUCCUGGA
Bn. sRNA4167365_0_1_0_0 GUUCCUCUGAGCACUUCUUAUG.....
Bn. sRNA3100373_1_3_0_0 CUGAAGUGUUUGGGG.....
Bn. sRNA3100374_0_1_0_0 CUGAAGUGUUUGGGGA.....
Bn. sRNA3100375_1_0_0_0 CUGAAGUGUUUGGGGAA.....
Bn. sRNA3100376_2_2_6_2 CUGAAGUGUUUGGGGAACUC.....

UA UG U UACAA U
UCC GAGUCCUC AGCACUUCU UGGGUA UUUC U
AGG CUCAAGGGG UUGUGAAGU ACCCAU GAAG A
UC GU C UA--- U

miRNA: Bn. sRNA3100376_2_2_6_2
miRNA*: Bn. sRNA4167365_0_1_0_0

Bna-miR395b

Bna-miR395b_AC232511_-17070_17050 UCCUAGAGUUCUUCUGAGCACUUCUUAUGGAGAUACCAUUUUUUUAUCAAAAUGUAUCCACUGAAGUGUUUGGGGAACUCCUGGA
Bn. sRNA4167365_0_1_0_0 GUUCCUCUGAGCACUUCUUAUG.....
Bn. sRNA3100373_1_3_0_0 CUGAAGUGUUUGGGG.....
Bn. sRNA3100374_0_1_0_0 CUGAAGUGUUUGGGGA.....
Bn. sRNA3100375_1_0_0_0 CUGAAGUGUUUGGGGAA.....
Bn. sRNA3100376_2_2_6_2 CUGAAGUGUUUGGGGAACUC.....

UA UG U A C AUUUU
UCC GAGUCCUC AGCACUUCU UGGGUA UAC AUUU \
AGG CUCAAGGGG UUGUGAAGU ACCCU AUG UAAA C
UC GU C - - ACUAU

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Bna-miR397b

Bna-miR397a_AC189186_-40041_40151 UUGCACGAACAUCUAUGAGUGCAGCGUUGAUGUGAUUUACUUAUCUUUUUCAUUGUUGAAUGGUAUAAAGCAAUUACAUCAACGUUGGCUCAAUUAUGUUUUUCUGAUUU
Bn. sRNA2617882_0_1_0_8 CAUCAUUGAGUGCAGCGUUGAU.....
Bn. sRNA1969904_3_2_3_10 AUCAUUGAGUGCAGCGUUGAUG.....
Bn. sRNA1969905_0_0_0_2 AUCAUUGAGUGCAGCGUUGAUG.....
Bn. sRNA4604963_1_0_0_0 UCAUUGAGUGCAGCGUUGA.....
Bn. sRNA4604964_0_0_0_2 UCAUUGAGUGCAGCGUUGAU.....
Bn. sRNA4604966_6_4_9_12 UCAUUGAGUGCAGCGUUGAUG.....
Bn. sRNA4604969_151_170_89_215 UCAUUGAGUGCAGCGUUGAUG.....
Bn. sRNA2659635_4_6_0_0 CAUUGAGUGCAGCGUUGAUG.....
Bn. sRNA2286150_0_1_0_0 AUUGAGUGCAGCGUUGAUG.....
Bn. sRNA2612688_0_1_0_0 CAUCAACGUUGGCUCAA.....

UUGCAC--- C G U A --| UU U
GAACAU AUUGAGU CAGCGUUGAUGUGA UU CUU AUCU UUCA U
UUUGUA UAACUCG GUUGCAACUACA AU AA GAA UAGG AAGU G
UUUAGUCUU U - U C AU^ U- U

miRNA: Bn. sRNA4604969_151_170_89_215
miRNA*: Bn. sRNA2612688_0_1_0_0

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Bna-miR399b

Bna-miR399b_AC189240_+94436_94456 AUUACAGGGCAAGAUCUCUAUUGGCAGGAAACCAUUAUCUUGACCUUUGCAUCUCUUUAUGCAUUGUUUGUAGUGAGUUCUCUGCCAAAGGAGAUUUGCCCGUAUU
Bn. sRNA3888521_1_0_0_0 GGGCAAGAUCUCUAUUGGCAGG.....
Bn. sRNA3888523_1_3_0_3 GGGCAAGAUCUCUAUUGGCAGG.....
Bn. sRNA3888524_0_1_0_0 GGGCAAGAUCUCUAUUGGCAGG.....
Bn. sRNA3838029_0_1_0_0 GGCAAGAUCUCUAUUGGCAGG.....
Bn. sRNA4968691_0_1_0_0 UGCCAAAGGAGAUUUGCCC.....
Bn. sRNA4968694_13_20_26_44 UGCCAAAGGAGAUUUGCCCGG....
Bn. sRNA3672671_1_1_0_0 GCCAAAGGAGAUUUGCCCGG....
Bn. sRNA2379195_1_0_0_0 CAAAGGAGAUUUGCCCGG....
Bn. sRNA2379197_1_1_3_0 CAAAGGAGAUUUGCCCGG....
Bn. sRNA2379198_0_1_0_0 CAAAGGAGAUUUGCCCGGU....

A A A GA - UU CUU CU
AUUAC GGGCA GAUCUCU UUGGCAG AAC CAUAC GAC UGCAU C
UAAUG CCCGU UUAGAGG AACCGUC UUG GUGAUG UUG ACGUA U
G - A UC A UU UU- UU

miRNA: Bn. sRNA4968694_13_20_26_44
miRNA*: Bn. sRNA3888523_1_3_0_3

Bna-miR399c

Bna-miR399c_AC232488_+116624_116644 AUUACAGGGCAAGAUCUCCUUGGCAGGAAUCUUAUUAUCUUCAGUCUUAUCAUUGCAUUAUUGUUUGGGCGAGCUCUCUGCCAAAGGAGAUUUGCCCGUAUU
Bn. sRNA4968700_11_14_11_58 UGCCAAAGGAGAUUUGCCCGG....
Bn. sRNA4968702_0_0_0_2 UGCCAAAGGAGAUUUGCCCGU....
Bn. sRNA2379200_0_0_0_5 CAAAGGAGAUUUGCCCGG....
Bn. sRNA2379201_0_0_0_2 CAAAGGAGAUUUGCCCGUA....

A A - A-| UAUUACUUA UU-- G
AUUAC GGC AGAUCUCCUUGGCAG GA UC GUC ACAUUAU C
UAAUG CCUG UUUAGAGGAAACCGUC CU AG CGG UGUUAU A
G - U CG^ ----- UGUU U

miRNA: Bn. sRNA4968700_11_14_11_58

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Bna-miR403

```
Bna-miR403a_AC189416_-_88119_88229      AGAGAAGAGUCAUUACAUGUUUUGUGCGUGAAUCUAAUUCGUAUGCUCAUGUAGUAAUCCUAUCUUGUUGGUAUAGAUUCACGCACAAACUCGUAACUGUCUUUU
Bn. sRNA4500302_0_1_0_0                  ..... UAUUACAUGUUUUGUGCG.....
Bn. sRNA4500303_8_7_20_19                ..... UAUUACAUGUUUUGUGCGUGAA.....
Bn. sRNA5200925_0_0_0_2                  ..... UGUUUUGUGCGUGAA.....
Bn. sRNA5200926_0_0_3_0                  ..... UGUUUUGUGCGUGAAUCUAAU.....
Bn. sRNA5200927_0_1_9_3                  ..... UGUUUUGUGCGUGAAUCUAAU.....
Bn. sRNA2236416_0_0_0_2                  ..... AUUAGAUUCACGCACAAACUCG.....
Bn. sRNA5249190_0_0_3_0                  ..... UUAGAUUCACGCACA.....
Bn. sRNA5249191_0_0_0_2                  ..... UUAGAUUCACGCACA.....
Bn. sRNA5249192_1_1_20_5                  ..... UUAGAUUCACGCACAAA.....
Bn. sRNA5249195_2_3_3_8                  ..... UUAGAUUCACGCACAAAC.....
Bn. sRNA5249196_21_18_0_3                ..... UUAGAUUCACGCACAAACU.....
Bn. sRNA5249198_3_3_0_3                  ..... UUAGAUUCACGCACAAACUC.....
Bn. sRNA5249200_85_71_238_259           ..... UUAGAUUCACGCACAAACUCG.....
Bn. sRNA4391162_0_0_0_2                  ..... UAGAUUCACGCACAAAC.....
Bn. sRNA4391163_2_1_6_0                  ..... UAGAUUCACGCACAAACUCG.....
Bn. sRNA1359813_0_0_6_0                  ..... AGAUUCACGCACAAACUCG.....
Bn. sRNA2255417_0_0_9_3                  ..... AUUCACGCACAAACUCGUAA.....
Bn. sRNA2255419_0_0_6_3                  ..... AUUCACGCACAAACUCGUAAU.....
Bn. sRNA5295516_0_1_0_0                  ..... UUCACGCACAAACUCGUAA.....
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AGAG|   U U   AU   U           UAU UCAU  UA
AAGAG CA AUUAC GUUU GUGCGUGAAUCUAAUUCG GC  GUAG \
UUUUC GU UAAUG CAAA CACGCACUUAGAUUAGGU  UG  UAUC A
----^   U C   CU   -           UGU UUC-  CU
```

miRNA: Bn. sRNA5249200_85_71_238_259
miRNA*: Bn. sRNA5200927_0_1_9_3

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Bna-miR860

```
Bna-miR860a_UC87297+_516_630            UGGUCAAGUGAAUGUAGUAGUCCAUCUAAUUGAAGUACUAGCACACCAUCUCUAGUGAGAUGUGGUUGAGUAGUCAAUACAUGGACUACAUUAUUACUUUUGAUCAA
Bn. sRNA2187203_0_0_0_2                  ..... AUGUAGUCCAUCUAAUUGAAG.....
Bn. sRNA4540940_2_2_3_0                  ..... UCAAUACAUGGACUACAUAU.....
Bn. sRNA2446224_0_0_3_0                  ..... CAAUACAUGGACUACAUAUAU.....
Bn. sRNA904250_0_0_0_3                  ..... ACAUUGGACUACAUAUAUAC.....
Bn. sRNA1041726_1_0_0_0                  ..... ACUACAUAUAUUACUUUUGAUCAA
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-      U           C   G   AG--|  C   U
UGGUCAAG GAAUGUAUGUAGUCCAUAUUGAAGUACUAGCACACCAUCUCUAGUGAGAUGUGGUUGAGUAGUCAAUACAUGGACUACAUUAUUACUUUUGAUCAA
ACUAGUUU CAUUAUAUACAUCAGGUUA AUAACUU AUGA  GUGU GUAGAG G
A      U           C   G   GUUG^  A   U
```

miRNA: Bn. sRNA4540940_2_2_3_0
miRNA*: Bn. sRNA2187203_0_0_0_2

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Bna-miR1140

```
Bna-miR1140_AC189528_-_3017_2997      UAUGGCUCCGAUUGGCUUAGGCUGUUGUGGCUUUGACUUCUUUCUAAAGUCUCAAUUUUAGUUUUACAUAUCAGUAAUUUUUUAAAAGUCACAGCCACAACAGCCUAAACCAAUCGGAGCCAUG
Bn. sRNA3736137_0_0_3_3                .... GCUCCGAUUGGCUUAGGCUG. ....
Bn. sRNA3736139_1_0_0_0                .... GCUCCGAUUGGCUUAGGCUGU. ....
Bn. sRNA4639687_1_1_0_0                .... UCCGAUUGGCUUAGGCU. ....
Bn. sRNA4639692_0_3_0_0                .... UCCGAUUGGCUUAGGCUGUU. ....
Bn. sRNA4639693_0_1_3_7                .... UCCGAUUGGCUUAGGCUGUUG. ....
Bn. sRNA2745231_0_0_0_2                .... CCGAUUGGCUUAGGC. ....
Bn. sRNA2745240_0_1_0_0                .... CCGAUUGGCUUAGGCUGUU. ....
Bn. sRNA2745241_0_0_6_2                .... CCGAUUGGCUUAGGCUGUUG. ....
Bn. sRNA2745242_1_5_6_10              ..... CCGAUUGGCUUAGGCUGUUGU. ....
Bn. sRNA1654747_0_0_6_0                ..... AGUCACAGCCACAACAGCCUA. ....
Bn. sRNA807778_2_1_3_0                ..... ACAACAGCCUAAACCAUCGG. ....
Bn. sRNA2394484_2_3_0_2                ..... CAACAGCCUAAACCAUCGGA. ....
Bn. sRNA2394485_0_0_6_0                ..... CAACAGCCUAAACCAUCGGAG. ....
Bn. sRNA314359_2_0_0_3                ..... AACAGCCUAAACCAUCGGA. ....
Bn. sRNA314363_62_56_405_381          ..... AACAGCCUAAACCAUCGGAG. ....
Bn. sRNA866675_0_0_0_2                ..... ACAGCCUAAACCAUCGG. ....
Bn. sRNA866676_1_0_0_2                ..... ACAGCCUAAACCAUCGGA. ....
Bn. sRNA866679_54_41_342_425          ..... ACAGCCUAAACCAUCGGAG. ....
Bn. sRNA866682_10_13_66_162           ..... ACAGCCUAAACCAUCGGAGC. ....
Bn. sRNA2553259_2_0_0_0                ..... CAGCCUAAACCAUCGGAG. ....
Bn. sRNA2553260_0_2_0_0                ..... CAGCCUAAACCAUCGGAGC. ....
Bn. sRNA2553261_0_0_3_0                ..... CAGCCUAAACCAUCGGAGCC. ....
Bn. sRNA3687716_4_2_11_3              ..... GCCUAAACCAUCGGAGCCA. ....
Bn. sRNA2993109_0_0_3_0                ..... CUAACCAUCGGAG. ....
Bn. sRNA133415_0_0_0_2                ..... AAACCAUCGGAGCCA. ....
```

```
          C          U      CUUUCUAAAGUCUCAAUUUUAGUU
UAUGGCUCCGAUUGG UUUAGGCUGUUGGCU UGACUU      U
GUACCGAGGCUAACC AAUCCGACAACACCGA ACUGAA      U
          -          C      -AAUUUUUUAAAUUGCACUAACACU
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miRNA: Bn. sRNA314363_62_56_405_381
miRNA*: Bn. sRNA2745242_1_5_6_10

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Bna-miR2111a

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Bna-miR2111a_AC189646_-_137286_137397  GUGAAGAACUGGUAUUCUGCAUCCUGAGGUUUAAAAUUUAUAGGCAAUUAAAACAUAGCAAUUGUGUAUGGUUUUUUAAUCCUGGGAUACGGAUUACCUUCCUUACU
Bn. sRNA404730_1_0_0_0                ..... AACUGGUAUUCUGCAUCCUGA. ....
Bn. sRNA4297514_2_1_0_0                ..... UAAUCUGCAUCCUGAGGUU. ....
Bn. sRNA4297516_0_1_0_0                ..... UAAUCUGCAUCCUGAGGUU. ....
Bn. sRNA4297517_59_149_3_10           ..... UAAUCUGCAUCCUGAGGUUA. ....
Bn. sRNA708190_0_2_0_0                ..... AAUCUGCAUCCUGAGGUUA. ....
Bn. sRNA5220714_0_1_0_0                ..... UUAUCCUGGGAUACGGAUU. ....
Bn. sRNA4296162_0_1_0_0                ..... UAAUCCUGGGAUACGGAUU. ....
Bn. sRNA1990062_1_0_0_0                ..... AUCCUGGGAUACGGAUUA. ....
Bn. sRNA1990065_11_34_32_56           ..... AUCCUGGGAUACGGAUUACC. ....
Bn. sRNA3074273_0_0_0_2                ..... CUCGGAUACGGAUUACC. ....
Bn. sRNA3882335_0_0_0_2                ..... GGGAUACGGAUUACC. ....
```

```
-| A CU      C      U      U      G AAUAAA      G
GUGA GAA GGUAUUCUG AUCCUGAGG UUA AAAA UUAUA GC      ACAU C
CAUU CUU CCAUUAGGC UAGGGCUCC AAUUUUU GGUAU UG      UGUA A
U^ C CU      A      U      U      G ----- A
```

miRNA: Bn. sRNA4297517_59_149_3_10
miRNA*: Bn. sRNA1990065_11_34_32_56

Bna-miR2111d

Bna-miR2111d_AC189208_+_23574_23683 AGGACCGGGUAAUCUGCAUCCUGAGGUUUAAAGCUUGAUUUACGCAUAAACAUGCCGACGCAUUAACUAUGUGUUUUAGAAUAGCUUUUAGUCCUCGGGAUGCGGAUUA
 Bn. sRNA4297514_2_1_0_0 UAAUCUGCAUCCUGAGGUU.....
 Bn. sRNA4297516_0_1_0_0 UAAUCUGCAUCCUGAGGUU.....
 Bn. sRNA4297517_59_149_3_10 UAAUCUGCAUCCUGAGGUUA.....
 Bn. sRNA708190_0_2_0_0 AAUCUGCAUCCUGAGGUUA.....

AGGACCGGG UUU- UGA U- AC---| C
 UAAUCUGCAUCCUGAGG AAAGCU UUA ACGCAUA AUGC G
 AUUAGGCGUAGGGCUCC UUUCGA GAU UGUGUAU UACG A
 ----- UGAU UAA UU CAAUA ^ C

miRNA: Bn. sRNA4297517_59_149_3_10

Bna-miR2111c

Bna-miR2111c_CU695310_-_123784_123920 UAUUGGAGGACCGGGUAAUCUGCAUCCUGGGUUUAAGGUUAAGUACACGCAAAAAUUGCGUACGCAUUAUUUGUGUGUUAGUAAGCUUUAGACCUAGGAUGCGGAUUAACCUUCCUACAUAUCG
 Bn. sRNA4297521_2_4_3_3 UAAUCUGCAUCCUGGGUUUA.....
 Bn. sRNA5244540_0_1_0_0 UUAGACCUAGGAUGCGGAUUAAC.....
 Bn. sRNA3379999_0_0_0_3 GACCUCAGGAUGCGGAUUAAC.....

UAUUG- CC - ----| G A G
 GUGAGGA GGUAAUCUGCAUCCUGGGUUU AAGGU UAAA UACACGCAAA AUAUGC U
 CAUCCU UCCAUUAGGCGUAGGACUCCAGA UUUCG GAUU GUGUGUUU UAUACG A
 GCAUAA UC U AUAU ^ - A C

miRNA: Bn. sRNA4297521_2_4_3_3

miRNA*: Bn. sRNA3379999_0_0_0_3

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Bna-miR6028

Bna-miR6028_AC232470_+_113181_113311 ACAAGCACGGUUGGGAUGAGGAGUAAGGACAUUCAGAUUCGGAAGCUUUGGUCCGUAACUUUAAAAUGGAUUGGUGUUUGAGUUUGUAGCUUUAUCUUCUCAAACUAGCCUC
 Bn. sRNA3584771_0_1_0_0 GAUGGAGAGUAAGGACAUUCAG.....
 Bn. sRNA2143830_32_20_78_49 AUGGAGAGUAAGGACAUUCAGA.....
 Bn. sRNA5033878_47_16_52_27 UGGAGAGUAAGGACAUUCAGA.....
 Bn. sRNA5033880_2_3_3_5 UGGAGAGUAAGGACAUUCAGAU.....
 Bn. sRNA5033882_0_1_3_2 UGGAGAGUAAGGACAUUCAGAU.....
 Bn. sRNA3805740_1_1_0_0 GGAGAGUAAGGACAUUCAGA.....
 Bn. sRNA3101686_0_0_3_3 CUGAUGUCUUUCUUCUUAUC.....
 Bn. sRNA4867445_0_1_0_0 UGAAGUCUUUCUUCUUA.....
 Bn. sRNA4867446_2_3_14_22 UGAAGUCUUUCUUCUUAUC.....

ACAAGCAC| UGGGA U A U G UGGU UAA UUU
 GGU UGAUGGAGAG AAGGACAUUCAG UC GC AAGCUUA CCCG CU A
 CCG ACUACUUCUC UUUCUGUAAGUC AG UG UUUGAGU GGGU GG A
 CU----- ^ UCAAA - C U - UUGU UA- UAA

miRNA: Bn. sRNA5033878_47_16_52_27

miRNA*: Bn. sRNA4867446_2_3_14_22

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Bna-miR6029

```
Bna-miR6029_AC189547_-50957_51072      AAGAGAUACACAAGCCAAGCCUCAAUAAACAAUCCCAACAGAUUACAAUCAAUUUGGCCUUGAAUUUCAUUUGUAAUUAUUGUGGGUUGUGAUUUCAGGCUUGGCUUGUGUAUCU
Bn. sRNA5440353_20_8_14_3                ..... UUGGGUUGUGAUUUCAGGC. ....
Bn. sRNA5440355_6_1_0_0                  ..... UUGGGUUGUGAUUUCAGGCU. ....
Bn. sRNA5440356_0_1_0_0                  ..... UUGGGUUGUGAUUUCAGGCU. ....
Bn. sRNA5440357_0_1_0_0                  ..... UUGGGUUGUGAUUUCAGGCUUGG. ....
Bn. sRNA5088766_2_2_0_2                  ..... UGGGUUGUGAUUUCAGGC. ....
Bn. sRNA5088767_11_9_9_2                  ..... UGGGUUGUGAUUUCAGGCU. ....
Bn. sRNA5088770_444_200_89_69            ..... UGGGUUGUGAUUUCAGGCU. ....
Bn. sRNA5088773_1_0_0_0                  ..... UGGGUUGUGAUUUCAGGCUUG. ....
Bn. sRNA5088774_49_38_14_10              ..... UGGGUUGUGAUUUCAGGCUUGG. ....
Bn. sRNA5088776_3_2_0_0                  ..... UGGGUUGUGAUUUCAGGCUUGGCU. ....
Bn. sRNA5088777_0_1_0_0                  ..... UGGGUUGUGAUUUCAGGCUUGGCU. ....
Bn. sRNA3910413_2_0_0_0                  ..... GGGUUGUGAUUUCAGGCU. ....
Bn. sRNA3910414_22_10_0_0                ..... GGGUUGUGAUUUCAGGCU. ....
Bn. sRNA3910416_3_1_0_0                  ..... GGGUUGUGAUUUCAGGCUUGG. ....
Bn. sRNA3970643_0_1_0_0                  ..... GGUUGUGAUUUCAGGCUUGG. ....
Bn. sRNA5463124_3_2_0_0                  ..... UUGAUUUCAGGCUUGGCU. ....
Bn. sRNA5463125_2_0_0_0                  ..... UUGAUUUCAGGCUUGGCU. ....
Bn. sRNA5161256_0_0_0_2                  ..... UGUAUUCAGGCU. ....
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AAG          C  AA          G      C--|  GG
AGAUACACAAGCCAAGCCU AAAU ACAUCCCAACA AUUACAAU AUUU C
UCUAUGUGUUCGGUUCGGA UUAU UGUUGGGUUGU UAAUGUUA UAAG C
---          C  G-          A      CUU^  UU
```

miRNA: Bn. sRNA5088770_444_200_89_69

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Bna-miR6030

```
Bna-miR6030_AC189357_-62458_62570      UCAGGGAUUAAGUGUCUGUAUGUGUGGGCUGAGUAGGCACAAUCACAGCUUUUACUCAGAUUGGUUGUGAAUGGACCUUCCACCCAUACCAUACAGACCCUUAUCCUGA
Bn. sRNA624126_0_0_3_0                  ..... AAGUGUCUGUAUGUGGGCUG. ....
Bn. sRNA2204939_0_0_3_0                  ..... AUGUGGGCUGAGUAGGCAC. ....
Bn. sRNA5176181_1_0_0_0                  ..... UGUGGGCUGAGUAGGCACAAUC. ....
Bn. sRNA5347973_1_2_0_0                  ..... UUCUCCACCAUACCAUACAGACCC. ....
Bn. sRNA4615475_100_90_55_44            ..... UCCACCAUACCAUACAGACCC. ....
Bn. sRNA2687439_0_1_3_0                  ..... CCACCAUACCAUACAGACCC. ....
Bn. sRNA2687441_0_1_0_2                  ..... CCACCAUACCAUACAGACCCU. ....
Bn. sRNA2485711_3_6_0_0                  ..... CACCAUACCAUACAGACCC. ....
Bn. sRNA931977_0_0_3_0                  ..... ACCCAUACCAUACAGACCC. ....
Bn. sRNA2705012_0_1_0_0                  ..... CCAUACCAUACAGACCCU. ....
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UCA          U      -|  CU  U  CA  A      UUUACU
GGGAUUAAG GUCUGUAU GUGUGGG GAG AGG CA UCACAGCU \
UCCUAUUC CAGACUA CAUACCC CUC UCC GU AGUGUUG C
AG-          C      C^  AC  U  AG  A      UCUAGA
```

miRNA: Bn. sRNA4615475_100_90_55_44

miRNA*: Bn. sRNA624126_0_0_3_0

Bna-miR6031

Bna-miR6031_AC189275_-_4339_4409 UAAGAGGUUCGGAGCGGUUUGAAGCGAUUUUAAGCGGCUUGUAUGAUUGUUUCGAAACGCUGUCAACCGCU
Bn. sRNA4273540_1_3_0_0 UAAGAGGUUCGGAGCGGUUGAA.....
Bn. sRNA4273541_3_5_3_0 UAAGAGGUUCGGAGCGGUUGAAG.....
Bn. sRNA480176_0_0_0_2 .AAGAGGUUCGGAGCG.....
Bn. sRNA480185_0_1_0_0 .AAGAGGUUCGGAGCGGUU.....
Bn. sRNA480187_4_1_0_0 .AAGAGGUUCGGAGCGGUUGA.....
Bn. sRNA480188_0_1_0_2 .AAGAGGUUCGGAGCGGUUGAA.....
Bn. sRNA480190_0_1_0_0 .AAGAGGUUCGGAGCGGUUGAAG.....
Bn. sRNA480192_40_34_11_17 .AAGAGGUUCGGAGCGGUUGAAGC.....
Bn. sRNA1306489_0_0_3_0 ..AGAGGUUCGGAGCGGUUGA.....
Bn. sRNA1306490_2_2_0_0 ..AGAGGUUCGGAGCGGUUGAA.....
Bn. sRNA1306494_1_0_0_0 ..AGAGGUUCGGAGCGGUUGAAG.....
Bn. sRNA1306496_1_2_3_0 ..AGAGGUUCGGAGCGGUUGAAGC.....
Bn. sRNA1306500_8_8_3_2 ..AGAGGUUCGGAGCGGUUGAAGCG.....
Bn. sRNA3506998_0_1_0_0 ...GAGGUUCGGAGCGGUUGAAGC.....
Bn. sRNA3507003_2_0_0_0 ...GAGGUUCGGAGCGGUUGAAGCG.....
Bn. sRNA3507004_0_1_0_0 ...GAGGUUCGGAGCGGUUGAAGCGA.....
Bn. sRNA1619213_0_1_0_0 AGGUUCGGAGCGGUUGAAGC.....
Bn. sRNA1619216_0_1_0_0 AGGUUCGGAGCGGUUGAAGCGA.....
Bn. sRNA1619217_3_0_0_0 AGGUUCGGAGCGGUUGAAGCGAU.....
Bn. sRNA3965242_0_0_3_0 GGUUCGGAGCGGUUGAAGC.....
Bn. sRNA4169600_0_0_0_2 GUUCGGAGCGGUUGAAGC.....
Bn. sRNA4169602_1_0_0_2 GUUCGGAGCGGUUGAAGCG.....
Bn. sRNA5333702_0_1_0_0 UUCGGAGCGGUUGAAGCG.....
Bn. sRNA4696485_1_3_0_0 UCGGAGCGGUUGAAGCGAUUUA.....
Bn. sRNA4696487_1_1_0_2 UCGGAGCGGUUGAAGCGAUUUU.....
Bn. sRNA4482950_0_1_0_0 UAUGAUUGUUUCGAAACGC.....
Bn. sRNA2102982_0_1_0_0 AUGAUUGUUUCGAAACGCUGUCA.....
Bn. sRNA2102983_0_0_3_0 AUGAUUGUUUCGAAACGCUGUCA.....
Bn. sRNA4948844_0_0_0_3 UGAUUGUUUCGAAACGCUGUCAAC.....
Bn. sRNA5197031_0_0_0_2 UGUUUCGAAACGCUGUCAACCGCU

UA A C - G -| C
AG GGUU GG AGCG UUUGAAGCGAUU UAUAG G
UC CCAA CU UCGC AAGCUUUGUAG AUGUU G
-- G - G A U^ C

miRNA: Bn. sRNA480192_40_34_11_17
miRNA*: Bn. sRNA5197031_0_0_0_2

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Bna-miR6032

Bna-miR6032_AC189188_+_93308_93437 UUAUUUUGUUUUAACAUGGAGCAUCAACAGAUUCUGGAGCAUGUAAGAUUCUGUUGUUCUCCGGGAUCUGCUGGUCGUUCCAUGUUAACUAAUAA
Bn. sRNA5209737_0_0_0_3 UUAACAUGGAGCAUCAACAGA.....
Bn. sRNA4255823_0_0_0_3 UAACAUGGAGCAUCAACAGAU.....
Bn. sRNA326079_0_0_0_2 AACAUGGAGCAUCAACAGAU.....
Bn. sRNA896639_0_0_3_0 ACAUGGAGCAUCAACAGAU.....
Bn. sRNA2144965_0_0_0_3 AUGGAGCAUCAACAGAUUCUGGAG.....
Bn. sRNA5036147_6_3_14_3 UGGAGCAUCAACAGAUUCUGG.....
Bn. sRNA3809545_1_0_0_0 GGAGCAUCAACAGAUUCUGG.....
Bn. sRNA3462653_1_0_0_0 GAGCAUCAACAGAUUCUGGAG.....
Bn. sRNA2937490_0_0_0_2 CGGGGAUCUGCUGGUCGUUCCA.....
Bn. sRNA4780944_0_0_3_2 UCUGCUGGUCGUUCCAUGUUA.....

U U - A G -- UG GA
UUAUUU GUUU AACAUGGAG CAUCAACAGAUUC GAG CA UAA U
AAUAAA CAAA UUGUACCUUG UGGU GUCUAGGG CUC GU GUU C
U - C C G CU UU GU

miRNA: Bn. sRNA5036147_6_3_14_3
miRNA*: Bn. sRNA2937490_0_0_0_2

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Bna-miR6033

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 Bn. sRNA2985054_0_1_0_0 CGUCCUAUGAACAGAUAGA.....
 Bn. sRNA4475505_2_0_0_0 UAUGAACAGAUAGAGUGGG.....
 Bn. sRNA4841912_1_0_0_0 UGAACCAGAUAGAGUGGGAC.....
 Bn. sRNA4841913_14_2_3_0 UGAACCAGAUAGAGUGGGACU.....
 Bn. sRNA335898_0_0_3_0 AACAGAUAGAGUGGGACUUG.....

GAGGAU G G U A-| CUC U
 UCUCUCAAGUCCACUC GU UGGUUC UAGGAACG ACC UAACUG \
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 UGGGU- A G U AG^ --- A

miRNA: Bn. sRNA4841913_14_2_3_0
 miRNA*: Bn. sRNA2691412_1_0_0_0

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Bna-miR6034

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 Bn. sRNA1870119_0_1_0_2 AUAUACUCUCAAGCAUAUCA.....
 Bn. sRNA1870120_7_2_3_3 AUAUACUCUCAAGCAUAUCA.....
 Bn. sRNA1870121_0_1_0_0 AUAUACUCUCAAGCAUAUCAACC.....
 Bn. sRNA4448249_1_0_0_0 .UAUACUCUCAAGCAUAUCAAC.....
 Bn. sRNA4448250_1_0_0_0 .UAUACUCUCAAGCAUAUCAACC.....
 Bn. sRNA4355685_1_1_0_0 ...UACUCUCAAGCAUAUCAACCC.....
 Bn. sRNA4355687_0_1_0_0 ...UACUCUCAAGCAUAUCAACCCCGA.....
 Bn. sRNA1068068_1_0_0_0ACUCUCAAGCAUAUCAACCC.....
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 Bn. sRNA340784_1_1_0_2AACCCCGAAGCUAUACACGUCUGA.....
 Bn. sRNA2724187_1_0_0_0CCCCGAGCAUAACACGUCUGA.....
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 Bn. sRNA4774577_1_0_0_0UCUGAUGUAUAGCUUUGG.....
 Bn. sRNA4774578_41_30_3_24UCUGAUGUAUAGCUUUGGG.....
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 Bn. sRNA3114989_1_0_0_0CUGAUGUAUAGCUUUGGGUU.....
 Bn. sRNA1841200_1_0_0_0AUAGCUUUGGGUUGAUAGC.....
 Bn. sRNA3221418_0_0_3_0CUUUGGGUUGAUAGCUUGAG.....
 Bn. sRNA5557453_0_0_3_0UUUGGGUUGAUAGCUUGAG.....

C U UUG U G
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 A U CAG - A

miRNA: Bn. sRNA4774578_41_30_3_24
 miRNA*: Bn. sRNA2724187_1_0_0_0

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Bna-miR6035

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 Bn. sRNA400969_0_1_0_0 .AACUGCAAAUUGGAGUAGAAAAUG.....
 Bn. sRNA2146530_1_2_0_7AUGGAGUAGAAAAUGCAGUCG.....
 Bn. sRNA5040123_3_2_0_2UGGAGUAGAAAAUGCAGUCGU.....
 Bn. sRNA4885464_0_1_0_0UGACUACAUUUCCACUCCAU.....

AAACUGCA| A C UGCAUUUC
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 UUUACCUCA CUUUUAC UCAGUAUUUGUUUG C
 -----^ C A UUUACCUCA

miRNA: Bn. sRNA5040123_3_2_0_2
 miRNA*: Bn. sRNA4885464_0_1_0_0

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Bna-miR6036

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Bna-miR6036_AC189214_-_37840_37994 UCAGUUAGCCUCAGUGGUUUCUGGGUCUAGUUAUUAUUUUUUUUUAUUGGUAACGGGCGGUUGUGGAAGUGAUGUUAAAAUAAGAAUUCACAAUGAUUGGUUACUAAAUAUAGUACUAGUACUUGCAUGAUGAUUAUGCA
Bn. sRNA1691467_0_0_3_0 ..... AGUGGUUUCUGGGUCUAGUUAU .....
Bn. sRNA5120293_0_0_0_2 ..... UGGUUUCUGGGUCUAGUUAU .....
Bn. sRNA5120294_0_0_0_2 ..... UGGUUUCUGGGUCUAGUUAUUAU .....
Bn. sRNA4270010_0_1_0_0 ..... UAAGAAUUCACAAUGAUUGGU .....
Bn. sRNA1851702_0_0_3_0 ..... AUAGUACUAGUACUUGCAUG .....
Bn. sRNA1851703_0_3_9_7 ..... AUAGUACUAGUACUUGCAUGAUC .....
Bn. sRNA4426516_0_0_0_2 ..... UAGUACUAGUACUUGCAUGAUC .....
Bn. sRNA4426517_1_1_3_2 ..... UAGUACUAGUACUUGCAUGAUC .....
Bn. sRNA1635639_0_0_0_2 ..... AGUACUAGUACUUGCAUGAUC .....
Bn. sRNA1635640_0_1_0_0 ..... AGUACUAGUACUUGCAUGAUC .....
Bn. sRNA4000212_0_2_0_0 ..... GUACUAGUACUUGCAUGAUC .....

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      CG  UACUAG  GUUCA  GAUCAUG  AUAUAA  AUCAU  UG  UU  UA  AACACUU  UA  U
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miRNA: Bn. sRNA1851703_0_3_9_7
miRNA*: Bn. sRNA5120294_0_0_0_2

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Bna-miR408*

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Bn. sRNA1255329_1_2_0_0 ..... AGAGACAGGGAACAAGCAGAGCA .....
Bn. sRNA3429526_0_0_0_2 ..... GAGACAGGGAACAAGCAGAGCA .....
Bn. sRNA3429527_11_16_0_7 ..... GAGACAGGGAACAAGCAGAGCAUG .....
Bn. sRNA1213684_1_0_0_0 ..... AGACAGGGAACAAGCAGAGCA .....
Bn. sRNA1213685_2_3_0_0 ..... AGACAGGGAACAAGCAGAGCAUG .....
Bn. sRNA3368267_2_0_0_0 ..... GACAGGGAACAAGCAGAGCAUG .....
Bn. sRNA872291_1_1_0_0 ..... ACAGGGAACAAGCAG .....
Bn. sRNA872297_0_0_0_2 ..... ACAGGGAACAAGCAGAGC .....
Bn. sRNA872298_9_7_6_2 ..... ACAGGGAACAAGCAGAGCA .....
Bn. sRNA872303_2_5_6_3 ..... ACAGGGAACAAGCAGAGCAU .....
Bn. sRNA872306_2963_4623_1697_2863 ..... ACAGGGAACAAGCAGAGCAUG .....
Bn. sRNA872312_2_5_3_5 ..... ACAGGGAACAAGCAGAGCAUGG .....
Bn. sRNA2570861_0_1_0_0 ..... CAGGGAACAAGCAGAGCA .....
Bn. sRNA2570863_60_99_0_0 ..... CAGGGAACAAGCAGAGCAUG .....
Bn. sRNA2570864_14_39_14_19 ..... CAGGGAACAAGCAGAGCAUGG .....
Bn. sRNA2570865_2_3_0_5 ..... CAGGGAACAAGCAGAGCAUGGA .....
Bn. sRNA1554926_0_1_0_0 ..... AGGGAACAAGCAGAGCA .....
Bn. sRNA1554938_9_12_0_5 ..... AGGGAACAAGCAGAGCAUG .....
Bn. sRNA1554939_1_0_0_0 ..... AGGGAACAAGCAGAGCAUGGAUUG .....
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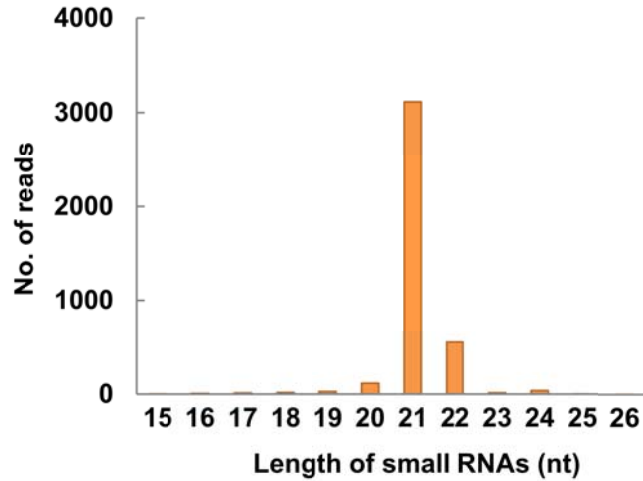
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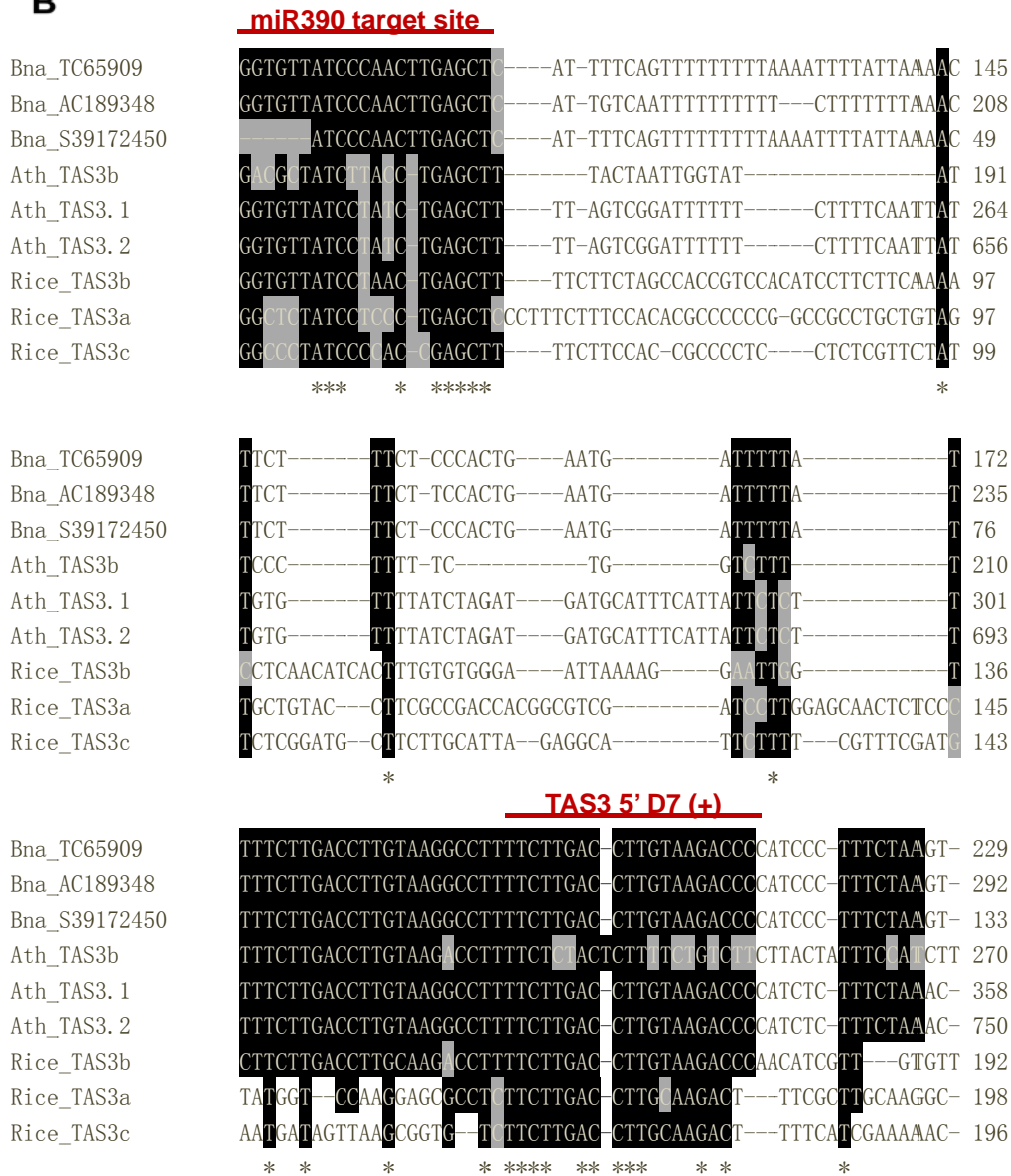
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miRNA*: Bn. sRNA872306_2963_4623_1697_2863

A



B



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Bna_TC65909      ----GTCTCCTTCTTCTATC-ATTTTACAGATT--TTCTTTTATCT-TTT--TTGGTGT 278
Bna_AC189348    ----GTCTCCTTCTTCTATC-ATTTTACAGATT--TTCTTTTATCTCTTT--TTGGTGT 342
Bna_S39172450   ----GTCTCCTTCTTCTATC-ATTTTACAGATT--TTCTTTTATCT-TTT--TTGGTGT 182
Ath_TAS3b       CGAGATTTCTCAATTCTGTCGATTTTAAATTAGTTTATATGAGTAAATCGAT-C 329
Ath_TAS3.1     ----GTTTTATTATTCTTC-GTTTTACAGATT--CTTTTATCTCTTC--TCAATAT 408
Ath_TAS3.2     ----GTTTTATTATTCTTC-GTTTTACAGATT--CTTTTATCTCTTC--TCAATAT 800
Rice_TAS3b     ----GTTTTCTTCTTCTT-ATTTTCAATT--TCCTCACTCTTC--TTTCT-- 238
Rice_TAS3a     ----GCTTCCCTGCA-----TATTGTCCTGCGA--TTC--TC----- 228
Rice_TAS3c     ----ACTCTTCTCACTTTT-----CTCGTATATCCTTGCCAACATTTC--TC----- 239

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miR390

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Bna_TC65909      AAGATATGTATGTATATCT ACCCCTAGTTTGTCTGAGTCATCTTCTC-CTACCTTGCT 336
Bna_AC189348    AAGATATGTATGTATATCT ACCCCTAGTTTGTCTGAGTCATCTTCTC-CTACCTTGCT 400
Bna_S39172450   AAGATATGTATGTATATCT ACCCCTAGTTTGTCTGAGTCATCTTCTC-CTACCTTGCT 240
Ath_TAS3b       AAGATTT--TGT TTTT ACCTTA-----TGA TCATATCCCCTCTTT TGT 377
Ath_TAS3.1     AGATAGATAT TAT TCT ACCCTAATTCGTCGAGTCATTTTCTC-CTACCTTGCT 466
Ath_TAS3.2     AGATAGATAT TAT TCT ACCCTAATTCGTCGAGTCATTTTCTC-CTACCTTGCT 858
Rice_TAS3b     --A ACT--CCCATTTT--CTCCTAGTTC-----TTGCCTTCTC--TCCTGCT 280
Rice_TAS3a     --ATC-----TTTACACCCCT-----CT-CCTCTGCCATTTCTGCT 265
Rice_TAS3c     --GTCCTCTCGCTTATCACCT-----CCCATCTTCTT-TGTCCGCT 284

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target site

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Bna_TC65909      ATCCCTCCTGAGCTA-GTCCTTGCATCTTTTGTAGTCCAT--TGATGTA----- 384
Bna_AC189348    ATCCCTCCTGAGCTA-GTCCTTGTATCTTTTGTAGTCCAT--TGAT TAAATTTCAA 457
Bna_S39172450   ATCCCTCCTGAGCTA-GTCCTTGCATCTTTTGTAGTCCAT--TGATGTATGGTTGATA 297
Ath_TAS3b       ATCCCTC TGAGCTG-CCTAATTTTCTTCTTAATCTCTTACTTT----- 427
Ath_TAS3.1     ATCCCTCCTGAGCTA-ATCTCCACATATATCTTTTGTATTGATGTA----- 516
Ath_TAS3.2     ATCCCTCCTGAGCTA-ATCTCCACATATATCTTTTGTATTGATGTA----- 908
Rice_TAS3b     ATCCCTCCTGAGCTGTATTGATCACTTTCTATGTTATTTCT--CGATGT----- 328
Rice_TAS3a     ATCCCTCCTGAGCT-----T-----TG TG-----GTTCCG----- 290
Rice_TAS3c     ATCCCTC TGAGCT-----TGTGACTTGTGTGCTAAGGTACTTTA----- 324

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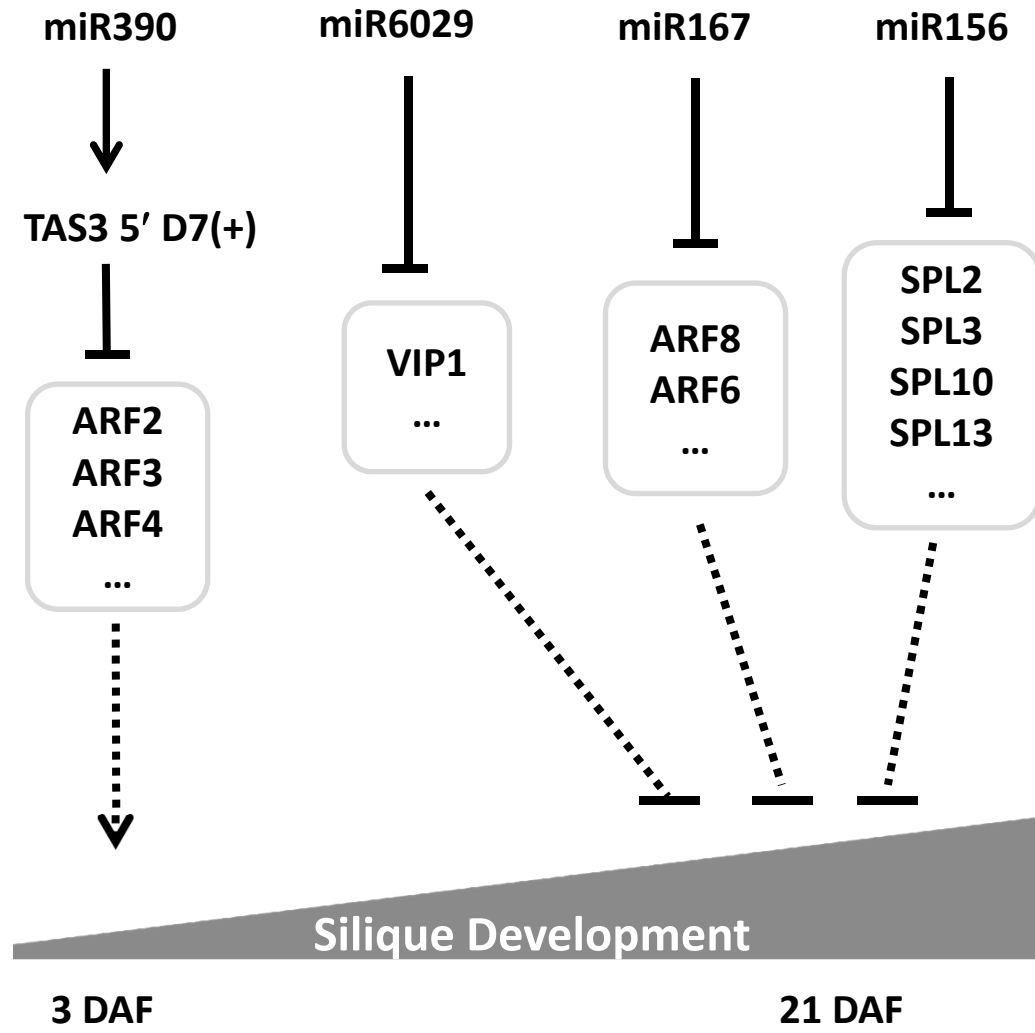
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Supplemental Figure S6. Size distribution of *B.napus* ta-siRNAs and the sequence conservations of *B.napus* TAS3 genes. A, Size distribution of ta-siRNAs generated from the TC65909 gene. B, Multiple alignment of *B.napus* TAS3 genes with *Arabidopsis thaliana* and Rice TAS3 genes. Bna, *B.napus*; Ath, *Arabidopsis thaliana*.



Supplemental Figure S7. A proposed model of the regulation of *B.napus* early silique development via miRNAs, ta-siRNA, and their target genes.