

Additional file 5: Sequence of miR319g and miRStv_11 obtained from *Stevia rebaudiana* and their alignment with sequence of miR319g *Populus trichocarpa* and stevia EST, respectively.

miRNA-ID	Sequence
miR319g	GAGCTTCTTTCAGCCCACTCATGGAGGTGATTAGGGAATTGAATTAGCTGCCGAC TCATTCATTCAAACCACTCAGTAGAAAATGAGGCGATGTTCTTTGAGCTACTTTGA TTGAGTGAATGATGCGGGAGACAGTTTTCACTCCTTGCTAATCTATGCTTGGACTG AAGGGAGCTCCTTAA
miRStv_11	CAGGTCTTGGCAACTACATCTCCGGTGCCATCCTCTTTGAGGAACTTTGTACCAA TCAACCGTCGAAGGCAAAAAGATCGTAGATATCCTTAATGAACAAGGGATCGTAC CTGGTATCAAGACTGACAAGGTAATATAATGCAATAAAAATAATATAACATTTAT GCATTGAAATTCACAAAATGTTGACTTTGATTTGTCGTTCCGTTCCATTGGCGGGC TCAAATGACGAGTCA TGGTGCCAAGGTCTTGATGGGCTAGCCTCGCGCTCGGCA GCTTACTACCAACAGGGTGCAC

1. Alignment of sequence of miR319g obtained from *S. rebaudiana* with sequence of miR319g obtained from *Populus trichocarpa*.

```

miR319g-Stevia      -----GAGCTTCTTTCAGCCCACTCATGGAGGTGATTAGGGAATTGAATTAG
miR319g-ptc        TAATCGTGGGAGAGAGCTTCTTTCAGCCCACTCGTGGATAGGACAAAGGGTTGAACTAG
                    ***** . **** . ** :*.**..***** ***

miR319g-Stevia      CTGCCGACTCATTCATTCAAACCACTCAGTAGAAAATG-----ATTCTTTGAGCTA
miR319g-ptc        CTGCCGACTCATTCATTCAAGCACTAGTAGAAAAAAGGCGAACGGTGTTCCTTTGCTA
                    *****.*.. : :. *.***:*          .** ** :****

miR319g-Stevia      CTTTGATTGAGTGAATGATGCGGGAGACAGTTTTCACTCCTTG-CTAATCTATGCTTGA
miR319g-ptc        CTGTGATTGTGTAATGATGCGGGAGATAATTTCCATCCTCTCCTTTCTGTGCTTGA
                    ** *****:***** *..*****..***** **: :****.*****

miR319g-Stevia      CTGAAGGGAGCTCCTTAA-----
miR319g-ptc        CTGAAGGGAGCTCCTTCTTCT
                    *****..

```

2. Alignment of sequence of miRStv_11 obtained from *S. rebaudiana* with sequence of stevia EST.

```
miRStv_11      CAGGTCTTGGCAACTACATCTCCGGTGCCATCCTCTTTGAGGAACTTTGTACCAATCAA
Stevia-EST     CAGGTCTTGGCAACTACATCTCCGGTGCCATCCTCTTTGAGGAACTTTGTACCAATCAA
*****

miRStv_11      CCGTCGAAGGCAAAAAGATCGTAGATATCCTTAATGAACAAGGGATCGTACCTGGTATCA
Stevia-EST     CTGTCGAAGGCAAAAAGATCGTAGATATCCTTAATGAACAAGGGATCGTACCTGGTATC
* *****

miRStv_11      AGACTGACAAGGTAATATAATGCAATAAAATATAATATAACATTTATGCATTGAAATTCA
Stevia-EST     AGACTGACAAGGGTT-----
*****

miRStv_11      CAAAATGTTGACTTTGATTTGTCGTTTCGTTCCATTGGCGGGCTCAAATGACGAGTCATG
Stevia-EST     -----TGGTTCCATTGGCGGGCTCAAATGACGAGTCATG
*****

miRStv_11      GTGCCAAGGTCTTGATGGGCTAGCCTCGCGCTCGGCAGCTTACTACCAACAGGGTGCAC
Stevia-EST     GTGCCAAGGTCTTGATGGGCTAGCCTCGCGCTCGGCAGCTTACTACCAACAGGGTGCAC
*****
```