**Fig. S1**

**>nbe-miR403a precursor**
AAAGAGTCATATTTCACGTTTGTGCGTGATTCTGACAACCCTTTTTATCATTTTTATCTCATGGGTTGTGTTTGTTAGATTCACGCACAAACTCG
CAATATGTCTTTTCT
Location: >Niben101Scf00793Ctg034:3501-4700

**>nbe-miR403b precursor**
TCTGAAAGAGGCATATTTCACGTTTGTGCGTGATTCTGACAACCATTTTTCATCATTAAATTTATTTTTATCTCATTGGTTGTGTTTGTTAGATTC
ACGCACAAACTCGTAATATGACTTTTCCTCATCT
Location: >Niben101Scf06412Ctg035:201-1400

**>nbe-MIR162a precursor**
TGGTTGGTTAAGAACACTGGAGGCAGCGGTTTATCGATCTGTTCCCTGAAAAGCGATAAACAAAATATAGCAACAGGAATCGGTCGATAAACC
TCTGCATCCAGCGGTTAACCCCCTTCT
Location: > Niben101Scf11303Ctg014:3301-4500

**>nbe-MIR162b precursor**
TTCTTTTGGTTGGTTAAAAACACTGGAGGCAGCGGTTTATCGATCTGTTCCCTGAAAGGCGATAACAAAAATATAGCAACAGGAATCGGTCGA
TAAACCTCTGCATCCAGCGCTTAACCCCCTTCTCTCT
Location: >Niben101Scf01764Ctg011:2801-4000 (-1)

**>nbe-MIR168a precursor**
TGTCTCTAATTCGCTTGGTGCAGGTCGGGACTAATTCGCCGGCGACGGCGGCAATCACGACGACGGTGATTGTTATTTAATGGAGTTTAGAC
GTACGAAGTTATCAACATTTTTTTGTTTTGCAGCGAAATTTGTCCCGCCTTGCATCAACTGAATTGGAGACTGC
Location: >Niben101Scf10054Ctg018:1201-2400

**>nbe-MIR168b precursor**
CTCTAATTCGCTTGGTGCAGGTCGGGACTAATTCGCCGGCGGCGGCAATCACGACGGCGGTGATTGTTATTAAATGGAGTTAAGATGTACGA
AGTTATCAACTTTTTTTGTTTTGCGGCGAAATTTGTCCCGCCTTGCATCAACTGAATTAGAGACTGC
Location: > Niben101Scf10307Ctg006:2101-3300

**>nbe-MIR168c-1 precursor**
GTCTCTCATTCGCTTGGTGCAGGTCGGGACCTGCTTTGTCGGCGACAATGACGTCAGCTGACGGTGACGGTGGCATATCGATAGATATACAT
GTTTATGACGAAGTTTGGGTCCCGCCTTGCATCAACTGAATCGGAGACTGCGGCGAAT
Location: >Niben101Scf04636Ctg025:701-1900

**>nbe-MIR168c-2 precursor**
GGTCTCTCATTCGCTTGGTGCAGGTCGGGACCTGTCTCGCCGGCGACAATGACGTCAGCTGACGGTTACGGTGCCGTATCGATAGATATACA
TGTTGTTTATGACGAAGTTTGGGTCCCGCCTTGCATCAACTGAATCGGAGACTGCGGT
Location: >Niben101Scf07765Ctg021:44501-45800 (-1)

**>nbe-MIR168d precursor**
GGTCTCTAATTCGCTTGGTGCAGGTCGGGAACTGACTCGCCGGTGACGCTGTCCGCGCCGGAATCGGCGCCCTTAGTTTCATTGATATTTTG
TTTACATGTACCGATGTTTAGAGAGCTCTCTTTTGGACTTATTTGTTAGTAATTTTTGTTGTTGAAAATAACTTGATATATGTATAGCTAAGTAGA
GAGTGTTTACCCACGGTTAGTTAAGTAATAGATACTATGTAGAGAGTGTTTACCACGGTTGGTTAGGTAATGGATATGTAGAGAGTTCATGTTT
TTAATAGATTAGTTATGAATGAAAGTGCGCCTCGTAAATGGCTAAGTTTGTTCCCGCCTTGCATCAACTGAATTGGTGACCGC
Location: >Niben101Scf08513Ctg014:21401-22800 (-1)

**>nbe-MIR168e precursor**
CTCTAACTCGCTTGGTGCAGGTCGGGAACTGACTCGCCGGTGACGCTGTCCGCGCCGGAATCGGCGCCCTTAGTCTCAATCATTTTTTGTTT
ATATGCATCGATATTCAGAGAGCTCTCATTAGGACTTATTTGTTAGTAATTTTTTGTTGTTGAAATTAACTTGATATATGTATAGATAAGTAGAGA
GTGTTTACCCCCGGTTGGTTAAGTAATAGATATGTAGAGACTGTTTGCCCACGGTTGGTTCCACGGTTGGTTAAGTAATGGATATGTAGAGAG
TTCAATTTTTTTTAATAGATTAGTTATGAATGAAATTGCGCCTCGTCAATGGCTAAGTTTGTTCCCGCCTTGCATCAACTGAATCGGTGACCGC
Location: >Niben101Scf07340Ctg008:19901-21400

**Fig. S1. *Nicotiana benthamiana* miRNA precursor 5'-to-3' sequences; their location in the *Nb* genome v.0.4.2 at https://solgenomics.net/.** Mature and passenger sequences are highlighted in red (mature) and in blue (passenger strands); nucleotides that differ between miRNA isoforms are labeled in green. The search was supported by unpublished sRNA data and facilitated by the fact that miRNA guide strands are highly conserved among dicots (44).