

## Supplementary Information

**Table S1.** Primer sequences used in the candidate genes approach.

|                 |                              |
|-----------------|------------------------------|
| <b>ABI5F1</b>   | <b>CCTCCATAACAAGAAGCGGAT</b> |
| <b>ABI5R1</b>   | GGTTGTCTAGCCGCAGTCTC         |
| <b>ABI5F2</b>   | AAGAGAGGGATAGCGAACGA         |
| <b>ABI5R2</b>   | CTTTCTCCACTGGACCATCC         |
| <b>ABI5F3</b>   | AGGACAGGAGGAGGAGGGTA         |
| <b>ABI5R3</b>   | AATCACTTTCTTTGTTTCACAGGG     |
| <b>ABI3F1</b>   | TGGAGTAAACCCAAACGGT          |
| <b>ABI3R1</b>   | TCAGGAAGCGTTGGGAGA           |
| <b>ABI3F2</b>   | TTGTTTCATTTCCACTTCAACG       |
| <b>ABI3R2</b>   | CATTTGCATGTCTCCACCAC         |
| <b>ABI3F3</b>   | CGAGTTCTTTGACACCTCAGC        |
| <b>ABI3R3</b>   | CGGATTCATGTTGTATCCATTG       |
| <b>ABI3F4</b>   | CACCACCACAGTCTGGTCC          |
| <b>ABI3R4</b>   | CCGGTGTCTCGAGGAGATA          |
| <b>ABI3F5</b>   | GCAGAAAGTCTTGAAGCAAAGC       |
| <b>ABI3R5</b>   | CCGACTCGACAAGAAAAAGC         |
| <b>MYB33F1</b>  | TGGTGTTTAGGTGGGAGCTTG        |
| <b>MYB33R1</b>  | CTTCGAGGAGGGGATTGTTG         |
| <b>MYB33F2</b>  | GCAGCTGGGGAGTTGTGAAT         |
| <b>MYB33R2</b>  | CACTTGGTGGAGTTTCATCTGC       |
| <b>MYB33F3</b>  | GCTGCGCTTCAACTATTCCA         |
| <b>MYB33R3</b>  | CGGCTGTGATCAAAAGGCTC         |
| <b>MYB101F1</b> | TTCTTCCTCTCCTTGATCGGA        |
| <b>MYB101R1</b> | TTGGAAGTCAAAGGAAGTTAAATCA    |
| <b>MYB101F2</b> | TGGAACACGAGGATGAAGAGA        |
| <b>MYB101R2</b> | TGTGCTTACCCAATGATGAATGA      |
| <b>MYB101F3</b> | CTTGTCTCGAGGCGGACTCT         |
| <b>MYB101R3</b> | GCACATCCCAAGTTGAAAACA        |
| <b>MKK1_F1</b>  | CGACGGTTCGTCATTCTTC          |
| <b>MKK1_R1</b>  | AATCGCCCGACATGTTGA           |
| <b>MKK1_F2</b>  | CTCAACAGTTTTTCGCTCTTAAGG     |
| <b>MKK1_R2</b>  | TACTCCATCCTTTCTTGTGTTCTG     |
| <b>MKK1_F3</b>  | TATTTGGAGCTTGGGACTGG         |
| <b>MKK1R3</b>   | AAGTATATCCACCACTAGCAGAGAAA   |
| <b>MPK6F1</b>   | GACCCCAAACCAACGAATA          |
| <b>MPK6R1</b>   | CCTAAACAATTTTGCATCAGC        |
| <b>MPK6F2</b>   | CTGCTTCGTCACATGGATCA         |
| <b>MPK6R2</b>   | AGGGAAGAGTGGCTTACGGT         |
| <b>MPK6F3</b>   | CTGCAGCTATCGATGTTTGG         |
| <b>MPK6R3</b>   | CGCCAAACCCTTATCTCATC         |
| <b>AREB1F1</b>  | GAGAGACACTTGGCTCACCA         |
| <b>AREB1R1</b>  | TTGCTGCCTCTGACTCTGAC         |
| <b>AREB1F2</b>  | GGAAGTAGTGGAGTAGGGGGA        |
| <b>AREB1R2</b>  | TTGCGAGATTCATTCAGCC          |
| <b>AREB1F3</b>  | CAAAGCGTAAAGTGTCTTGTGTG      |
| <b>AREB1R3</b>  | CAGAACTAAGTATGATGGCATTGA     |