**S1 Table. The wheat pre-miRNAs primer sequences for RT-PCR experimental validation.** Fifteen randomly selected wheat miRNAs subjected to expression analysis through RT-PCR are given here with melting temperature (Tm) primers, product size (bp) and source EST.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Wheat miRNAs | Tm | Primers | Product size | EST |
| tae-MIR-1522 | 60.4160.62 | TGCAGGTCATGCTACCAGAAATGCCTCCTGGATCTGTCAA | 220 | HX107438.1 |
| tae-Mir-5040 | 60.5260.56 | CGCAATGGATTGTCAACGTAATCTGCCTGAGCTGTTCGAC | 237 | HX080066.1 |
| tae-Mir-6220 | 59.8360.20 | TGGCATCTGCTGTCGAATACACACCACTTGCACAACTCCA | 154 | HX083836.1 |
| tae-Mir169a | 59.7059.84 | GGTAGCCAAGGATGACTTGCGCTGGCATGAAGGGTAAGAG | 130 | HX077861.1 |
| Tae-Mir-172d | 59.7860.25 | CGCGTAGCCACCTACATACAAACATTGGCATGTGTCATGG | 182 | HX083757.1 |
| Tae-Mir-1439 | 57.1959.69 | AATAATATGGTACTCCATCCAAAAATCAATGACTTGGGTTTGCTG | 150 | HX094398.1 |
| Tae-Mir-1858a | 57.9160.49 | AGATGTAGCACCCGAAAGCCTCCTCTCTCCCCGTAGCTC | 153 | HX103445.1 |
| Tae-Mir-2275c | 60.2859.44 | ATGCAGCTACTTCCCAGGTGCAACCGAAGGTGAGATATTGG | 161 | HX083889.1 |
| Tae-Mir-5502 | 57.8958.60 | TCTCTTGTAAAATACATTAGTGGGAATATATAAACGTATCCCCGTATCCA | 150 | HX101882.1 |
| Tae-Mir-5523 | 59.9059.99 | TAGCAAAACCGGTAGCGACTTTTTTGTTTCGGTATCTCTGGAA | 184 | HX094480.1 |
| Tae-Mir-827 plus strand | 57.6161.07 | TGGTTAGATGACCATCAGCACTACCTTCACCCGCGTCAT | 125 | HX116829.1 |
| Tae-Mir-7778 cluster | 61.4960.03 | ATGGCAGGGAGCATCATGTGGACACAGACAGCTCGTCAA | 177 | HX115168.1 |
| Tae-MIR530 plus strand | 59.2059.97 | GTGCACAGCAAAGGGTTATGGGGGAGAATGTGTGACGAGT | 210 | CA655063.1 |
| Tae-MIR530 minus strand | 59.9761.26 | GGGGAGAATGTGTGACGAGTGAAGAAAGGTCGAGGGCTTG | 154 | CA655063.1 |
| Tae-MIR1522 | 60.0560.47 | TTTCACGCTGTTATCACCTTTTTAGCCAGGTGGCATAAAATGA | 171 | HX107438.1 |