**Table S1. Primers used in the study.**

|  |  |  |
| --- | --- | --- |
| Primer name | Sequence | Purpose |
| **RT-PCR & qRT-PCR** | | |
| HY5 RT-PF2 | GAGGAGAAGCTGTCGGAAAA | HY5 |
| HY5 RT-PR2 | CTCTGTTTTCCAACTCGCTCA | [51] |
| HYHRTPF | CCCACAAGAAGCACAAAACTGAGGAAA |  |
| HYHRTPR | CTTCCACGGCGGCGTTTAGCTGTAGAGA |  |
| EF1a-qPF | TGAGCACGCTCTTCTTGCTTTCA | Reference gene |
| EF1a-qPR | GGTGGTGGCATCCATCTTGTTACA | [52] |
| ACT2-qF | GGCTCCTCTTAACCCAAAGGC |  |
| ACT2-qR | CACACCATCACCAGAATCCAGC |  |
| **Cloning** | | |
| 5pF | CACGGTACCTCTAATGTTAACGTTGAGATG | HY5 protein fusion |
| 5pR | GGGAAGGCTTGCATCAGCATTAG |
| HpF | CACGGTACCTAATGAGACCTTGAAGCTGCAG | HYH protein fusion |
| HpR | GGGGTGATTGTCATCAGTTTTAGG |
| HY5pF | CACGGTACCTCTAATGTTAACGTTGAGATG | *HY5* promoter fusion |
| HY5pR | CACCTCGAGTTTTCTTACTCTTTGAAGATC |
| HYHpF | CACGGTACCTAATGAGACCTTGAAGCTGCAG | *HYH* promoter fusion |
| HYHpR | CACCTCGAGCAATATCTTTTTGTCTTTTGAG |
| **Genotyping** | | |
| hy5-2MLP | TTCACTCTCGATATCCGTTCG | SALK\_056405 |
| hy5-MRP | ATGCGAGTGAATGACCATTTC |
| hy5-51MLP | ATTCCTTCCCAAAATGTCTCG | SALK\_096651 |
| atLBb1.3 | ATTTTGCCGATTTCGGAAC |  |
| hyh-wc LP | ACTCGCATAAGAACATGTGGG | WISCDSLOX253D10 |
| hyh-wc RP | ACCCACACGCTCTGTGAATAC |
| p745 | AACGTCCGCAATGTGTTATTAAGTTGTC |  |
| **Y1H** |  |  |
| HY5CDS-PF-EcoR1 | TATGAATTCATGCAGGAACAAGCGACTAG | HY5-AD |
| HY5CDS-PR-Xhol1 | ACACTCGAGTCAAAGGCTTGCATCAGCATTAGAAC |
| HYH-cis-1-PF | TATGAATTCAAACTTTAAAATTATGATG | frag 1 |
| HYH-cis-PR | ACACTCGAGcaatatctttttgtcttttg |
| HYH-cis-5-PF | TATGAATTCTTGCATACAGCTTCAAATA | frag 2 |
| HYH-cis-5-PR | ACACTCGAGTTCATCATAATTTTAAAGT |
| HYH-cis-4-PF | TATGAATTCAAATATGATCACCATGGTTTG | frag 3 |
| HYH-cis-4-PR | ACACTCGAGCTTTTATACGAAGTACTATCC |
| HYH-cis-7-PF | TATCAATTGGTAGACTTGAAGAGTTTTG | frag 4 |
| HYH-cis-7-PR | ACACTCGAGGTTTAATTGATTATAGACT |
| **EMSA** |  |  |
| ecis3-1F | AGTTCTAACCATGGTAAATTTAAACGTTTTGTTGAAGTAATATAGAGAGG | 3’-FAM |
| ecis3-2F | CATGATATGTACTCCTAAATTAACGTGGCATGTTCATGCATAGACAAAGA | 3’-FAM |
| ecis3-3F | CAAAGATGCAATCATATCTCCACGTTTGCATACAGCTTCAAATAATAAAA | 3’-FAM |
| ccis3-1F | GTTCTAACCATGGTAAATTTAAACGTTTTGTTGAAGTAATATAGAGAGG |  |
| ccis3-2F | CATGATATGTACTCCTAAATTAACGTGGCATGTTCATGCATAGACAAAGA |  |
| ccis3-3F | CAAAGATGCAATCATATCTCCACGTTTGCATACAGCTTCAAATAATAAAA |  |
| ccis3-1R | CCTCTCTATATTACTTCAACAAAACGTTTAAATTTACCATGGTTAGAACT |  |
| ccis3-2R | TCTTTGTCTATGCATGAACATGCCACGTTAATTTAGGAGTACATATCATG |  |
| ccis3-3R | TTTTATTATTTGAAGCTGTATGCAAACGTGGAGATATGATTGCATCTTTG |  |