Appendix A Primers sequence used in the study

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| --- | --- | --- |
| **Name** | **Sequence 5’-3’** | **Experiment** |
| UBQ7-F | GGCATTCCACCTGACCAACAA | RT-qPCR |
| UBQ7-R | CCGCATTAGGGCACTCTTTTC | RT-qPCR |
| MAX2-QRT-F | CTCCTTACACCATTGGCAGCGG | RT-qPCR |
| MAX2-QRT-R | CGAAAGCCGAGGGTAGAGTGC | RT-qPCR |
| MAX2-pTF486-F | ATTACAGTCGACTCTAGAGGAATGGCCACCATTAACGATATCCCCGACGTT | Subcellular localization |
| MAX2-pTF486-R | GCCCTTGCTCACCATGGAACCACCACCACCACCACCATCGAGGATGTGTCGCC | Subcellular localization |
| MAX2-pCHF3-F | GACGAGCTCGGTACCCGGGGAATGGCCACCATTAACGAT | Plant expression vector |
| MAX2-pCHF3-R | CAGCGCGTCGACTCTAGAGGATCAATCGAGGATGTGTC | Plant expression vector |
| MAX2-VIGS-1-F | GAACTAGTGACCTGTTTCAGATCCGTCTC | VIGS assay |
| MAX2-VIGS-1-R | GCTTAATTAACAAACAAAGTCTTCACCGATTG | VIGS assay |
| MAX2-VIGS-2-F | GCACTAGTGGATGCTATGGTTACCAAAGG | VIGS assay |
| MAX2-VIGS-2-R | CGTTAATTAACTCTCCCAATTGCAATCAATC | VIGS assay |
| MAX2-VIGS-3-F | GAACTAGTGGAACGGATGGGAGGAGATTG | VIGS assay |
| MAX2-VIGS-3-R | GCTTAATTAACTCCTCCAAATTAGGGCAGTT | VIGS assay |
| MAX2-VIGS-4-F | AGACTAGTCCACAAGACAGGGATGTCAACC | VIGS assay |
| MAX2-VIGS-4-R | GCTTAATTAATCAATCGAGGATGTGTCGCC | VIGS assay |
| MAX2-Pro-F | CATGCCCAATCGTCTACCC | MAX2 promoter  amplification |
| MAX2-Pro-R | TTTGGGACTGGAGATGGGGATG | MAX2 promoter  amplification |
| MAX2-Pro-GUS-F | GTCGACTCTAGACTCGAGGGACATGCCCAATCGTCTACCC | GUS assays |
| MAX2-Pro-GUS-R | GGGAAGACTGGAGATCTGGACGGGGATATCGTTAATGGTGGC | GUS assays |

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Appendix B The screening of transgenic *GhMAX2* plants