

Supplementary

Table S1. Primers for target PIP and TIP aquaporin genes and three reference genes (ZmFPGS, ZmMEP, ZmUBCP).

| Gene | Primer name | Sequence 5' -> 3' | Accession number |
|--------|-------------|-----------------------|------------------|
| PIP1;1 | PIP1;1_F | gccgtaattacaaccagcac | 00001d002690 |
| | PIP1;1_R | acctactcttgaacgggatcg | |
| TIP2;1 | TIP2;1_F | accgtcgtcgtttgcttttg | 00001d051362 |
| | TIP2;1_R | tgaatggaccagggcaaagg | |
| PIP2;5 | PIP2;5_F | ctccttcagccgctagatcg | 00001d003006 |
| | PIP2;5_R | ctgtccttgtccagcctctg | |
| PIP2;1 | PIP2;1_F | agttcgtgccaaggactac | 00001d019563 |
| | PIP2;1_R | gccaccgtgatgtacaggaa | |
| PIP1;5 | PIP1;5_F | gccagttcagctagccatca | 00001d051872 |
| | PIP1;5_R | caccgtacaaaaccaagc | |
| PIP2;2 | PIP2;2_F | aaagaaaggccttcgctgga | 00001d005421 |
| | PIP2;2_R | tctccccacgctagatcgat | |
| PIP2;6 | PIP2;6_F | tcaggtaagtgttgagct | 00001d019565 |
| | PIP2;6_R | cacacttgcttccacaccg | |
| TIP1;1 | TIP1;1_F | gctcagcttagctccactcc | 00001d027652 |
| | TIP1;1_R | ttgatcggcattttcacggc | |
| PIP1;2 | PIP1;2_F | tgttggcaccttcacctagt | 00001d017526 |
| | PIP1;2_R | cagtggggcaaggatagg | |
| PIP2;3 | PIP2;3_F | tgttggcccctcttcgattg | 00001d051174 |
| | PIP2;3_R | ccattggtcgtcccaggc | |
| PIP2;4 | PIP2;4_F | gttccggtgctagctccttc | 00001d017288 |
| | PIP2;4_R | caggccttgtccttgtttaga | |
| ZmFPGS | FPGS_F | atctcgttggggatgtcttg | 00001d048514 |
| | FPGS_R | agcaccgttcaaatgtctcc | |
| ZmMEP | MEP_F | tgtactcggcaatgctcttg | 00001d018359 |
| | MEP_R | tttgatgctccaggcttacc | |
| ZmUBCP | UBCP_F | caggtgggggtattcttggtg | 00001d001913 |
| | UBCP_R | atgttcgggtggaaaacctt | |