Table S1: Sequences of oligonucleotides and PCR program settings used for gene expression analysis

Shown are the sequences of the forward (FWD) and the (REV) primer used to analyze the expression of each *Sl*AQP. Below each primer pair the PCR program used for each target gene is given.

|  | Orientation | Sequence |
| --- | --- | --- |
| *SlPIP1;1*  | FWD  | 5’- GAAATCTTAGTGAGTGAGTGAG -3’ |
| REV  | 5’- ATGATGATAGTTCACCAGG -3’ |
| 95°C 20s, {95°C 15s, 62°C 20s} 30 cycles |
| *SlPIP1;2*  | FWD  | 5’- CTATTGGCTATAGCTATGT -3’ |
| REV  | 5’- CTATTGGCTATAGCTATGT -3’ |
| 95°C 20s, {95°C 15s, 52°C 20s, C 20s} 30 cycles |
| *SlPIP1;3*  | FWD | 5’- GGCTACCATTCCAATCACCG -3’ |
| REV | 5’- CAACAGCACCAGACAGG -3’ |
| 95°C 20s, {95°C 15s, 58°C 20s, C 20s} 25 cycles |
| *SlPIP1;5*  | FWD | 5’- GCTGCTCTTGCTGCTATTT -3’ |
| FWD  | 5’- CCTTCATTGATAAGGTACA -3’ |
| 95°C 20s, {95°C 15s, 59°C 20s, 72°C 20s} 45 cycles |
| *SlPIP1;7*  | FWD  | 5’- CACTCACTAACTCCCATC -3’ |
| REV  | 5’- CGTTGAACATTTGGAATCGG -3’ |
| 95°C 20s, {95°C 15s, 62°C 20s} 40 cycles |
| *SlPIP2;1*  | FWD  | 5’- GTGCTGCTGTTGTTTATGGACA -3’ |
| REV | 5’- CATCCAACACAACTCTAACAAC -3’ |
| 95°C 20s, {95°C 15s, 60°C 20s} 30 cycles |
| *SlPIP2;4*  | FWD  | 5’- CAATGGTGACAAGGCGTGG -3’ |
| REV | 5’- GAAGGCGAATTCATAGGAT -3’ |
| 95°C 20s, {95°C 15s, 61°C 20s} 30 cycles |
| *SlPIP2;5* | FWD  | 5’- GGATATGGAGTATGGAAATG -3’ |
| REV  | 5’- TTGGTCACCATCACTTTG -3’ |
| 95°C 20s, {95°C 15s, 62°C 20s} 35cycles |
| *SlPIP2;6*  | FWD  | 5’- CAGAGCATCCTCTGTTT -3’ |
| REV | 5’- CACCGCAAATATCGCCTC -3’ |
| 95°C 20s, {95°C 15s, 57°C 20s} 30 cycles |
| *SlPIP2;8*  | FWD  | 5’- GGAGCTGCTGTTATTGCTGA -3’ |
| REV | 5’- GCACAGATCCAAGGCTAAGA -3’ |
| 95°C 20s, {95°C 15s, 62°C 20s} 35 cycles |
| *SlPIP2;9*  | FWD  | 5’- GCAATGGCAGCAGCAATATACCA -3’ |
| REV | 5’- CGAAAGAGAATAGACCACCA -3’ |
| 95°C 20s, {95°C 15s, 64°C 20s} 30 cycles |
| *SlPIP2;12* | FWD  | 5’- AGTAGTGCATTGCCGGAGC -3’ |
| REV  | 5’- CATGGATCATGATCACTTTCACTC -3’ |
| 95°C 20s, {95°C 15s, 66°C 20s} 35 cycles |
| *SlTIP1;1*  | FWD  | 5’- GTGCCTTTACTGGAGCTTCAAT -3’ |
| REV | 5’- GTACAATTCAACAGTGCCCA -3’ |
| 95°C 20s, {95°C 15s, 63°C 20s} 25 cycles |
| *SlTIP1;2*  | FWD  | 5’- GTAGGAGGTCACATTACACT -3’ |
| REV | 5’- CGCACCACCAGCCAAGATAT -3’ |
| 95°C 20s, {95°C 15s, 63°C 20s} 30 cycles |
| *SlTIP2;1*  | FWD  | 5’- CACTTGTTGGCGGTGGGTTA -3’ |
| REV | 5’- CATGAATGTACAGCTGCAA -3’ |
| 95°C 20s, {95°C 15s, 62°C 20s} 35 cycles |
| *SlTIP2;2*  | FWD  | 5’- GTCCATTAGTTGGTGGTAGTT -3’ |
| REV | 5’- GGATGTACAGCTGCAAACCA -3’ |
| 95°C 20s, {95°C 15s, 62°C 20s} 35 cycles |
| *SlTIP2;3*  | FWD  | 5’- GCTCACTTGGAACCATTGC -3’ |
| REV | 5’- CACTGTTGAAGACTTGTTC -3’ |
| 95°C 20s, {95°C 15s, 63°C 20s} 45 cycles |
| *SlTIP3;1*  | FWD  | 5’- GATAAGTTGTACCCTGATAGAGC -3’ |
| REV | 5’- CATTGCCAACTCCTGATGCTA -3’ |
| 95°C 20s, {95°C 15s, 64°C 20s, C 20s} 30 cycles |
| *SlTIP3;2*  | FWD  | 5’- GTTGGAGGTGGAGGAACCA -3’ |
| REV  | 5’- GATGTGCAGGCAGCTACATACA -3’ |
| 95°C 20s, {95°C 15s, 68°C 20s} 45 cycles |
| *SlTIP4;1*  | FWD  | 5’- CCACTTCTAACTGGGCTTGTTG -3’ |
| REV  | 5’- CATGCATAGATAAGGTAGACTTCC -3’ |
| 95°C 20s, {95°C 15s, 64°C 20s} 45 cycles |
| *SlNIP1;2* | FWD  | 5’- AAGGCGCTGAACGGACAC -3’ |
| REV | 5’- CAAATCCAAAACCCTACTACG -3’ |
| 95°C 20s, {95°C 15s, 64°C 20s} 45 cycles |
| *SlNIP2;1*  | FWD  | 5’- GGAGCATGGTCCTATAATTTCAT -3’ |
| REV | 5’- CTTATTCACCATCTATCCGACAC -3’ |
| 95°C 20s, {95°C 15s, 64°C 20s, C 20s} 45 cycles |
| *SlNIP3;1* | FWD  | 5’- TCTGAAGGAATTCGAGCAAC -3’ |
| REV  | 5’- TTTGCACGAAATGTACGC -3’ |
| 95°C 20s, {95°C 15s, 62°C 20s} 40 cycles |
| *SlNIP4;1*  | FWD  | 5’- TGGAGGAGGAAGTCTTTGATAC -3’ |
| REV  | 5’- CCTTCTTCCATATTCTGAGTG -3’ |
| 95°C 20s, {95°C 15s, 60°C 20s} 40 cycles |
| *SlNIP5;1*  | FWD  | 5’- CATCAAGGTTACTCAATTCTGC -3’ |
| REV | 5’- GATAAATCAGAATACAACAACTG -3’ |
| 95°C 20s, {95°C 15s, 60°C 20s} 45 cycles |
| *SlNIP6;1*  | FWD  | 5’- CACCTGGAAGGCAAGAGTGGG -3’ |
| REV  | 5’- CCACTCATGTGGCACTAGTTCTG -3’ |
| 95°C 20s, {95°C 15s, 68°C 20s, 72°C 20s} 45 cycles |
| *SlSIP1;1*  | FWD  | 5’- GTACTACTGATTCAAGTAGG-3’ |
| REV | 5’- GGCAGCATTTCCAGTTGGATTGA-3’ |
| 95°C 20s, {95°C 15s, 59°C 20s, C 20s} 45 cycles |
| *SlSIP1;2*  | FWD  | 5’- GATAGACTCTTCTGCTTCAG-3’ |
| REV  | 5’- CACAAGCACAACTCAAAACAG-3’ |
| 95°C 20s, {95°C 15s, 62°C 20s, C 20s} 30 cycles |
| *SlSIP2;1*  | FWD  | 5’- CTGGTTCAGAAACTACATG -3’ |
| REV | 5’- CTTGAAGTTACTGGCATCC -3’ |
| 95°C 20s, {95°C 15s, 55°C 20s, 72°C 20s} 30 cycles |
| *SlXIP1;1*  | FWD  | 5’- TCATGCACACAATTTCAGG -3’ |
| REV  | 5’- AAATCTGGCTTTCCTCATC -3’ |
| 95°C 20s, {95°C 15s, 60°C 20s} 40 cycles |
| *SlXIP1;2* | FWD  | 5’- GCCTATGGTGATGTATGG -3’ |
| REV  | 5’- AACTTGTACAACCGAAAGAC -3’ |
| 95°C 20s, {95°C 15s, 62°C 20s} 35 cycles |
| *SlXIP1;3* | FWD  | 5’- GATCCCATCGAGTATCAAAATC -3’ |
| REV  | 5’- AGGAACGCCCAGTATTGAAAG -3’ |
| 95°C 20s, {95°C 15s, 55°C 20s, 72°C 20s} 38 cycles |
| *Ubiquitin* | FWD | 5’- CACCAAGCCAAAGAAGATCA -3’ |
| REV | 5’- TCAGCATTAGGGCACTCCTT -3’ |
| 95°C 20s, {95°C 15s, 55°C 20s, 72°C 20s} 35 cycles |