

**Table S1.** Primers used to quantify transcript abundance and construct binary vectors. The target gene, primer name, sequence and direction of primer annealing are displayed.

| Target                                       | Primer Name                                      | Sequence (5'-->3')                                                | Direction          |
|----------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------|--------------------|
| <b>House Keeping Genes</b>                   |                                                  |                                                                   |                    |
| Cyclophilin                                  | Cyclo                                            | TCTTCCTCTTCGGAGCCATA<br>AAGCTGGGAATGATTTCGATG                     | Sense<br>Antisense |
| Actin                                        | Actin2                                           | TTGACTACGAGCAGGAGATGG<br>ACAAACGAGGGCTGGAACAAG                    | Sense<br>Antisense |
| <b>Gene Specific Primers for qRT-PCR</b>     |                                                  |                                                                   |                    |
| PIN6                                         | PIN6-CC1F<br>PIN6-CC1R                           | TGGGCCGTTTTCTTCAAAGC<br>GATTGATCCGGCTGCTTGAC                      | Sense<br>Antisense |
| PIN6<br>( <i>pin6-4</i> ; <i>pin6-5</i> )    | GB_430B01_RT1_Fw (A-f)<br>GB_430B01_RT1_Rv (A-r) | TACGCCGGTTTGGATGAAAT<br>GCATCTGAAATGATCTTTATCGAGA                 | Sense<br>Antisense |
| PIN6<br>( <i>pin6-6</i> ; Prior TDNA)        | GB_430B01_RT2_Fw (C-f)<br>GB_430B01_RT2_Rv (C-r) | AAGGAGATTAGCTTCAGAGA<br>CTGAAATGATCTTTATCGAG                      | Sense<br>Antisense |
| PIN6<br>( <i>pin6-6</i> ; Flanking TDNA)     | Pin6-RT2-Fw (B-f)<br>Pin6-RT2-Rev (B-r)          | GAAAAAGGCAACAATGGGGA<br>CACCTAACCATTACCAGTAATTTG                  | Sense<br>Antisense |
| <b>Overexpression Constructs</b>             |                                                  |                                                                   |                    |
| pMDC35enh::PIN6                              | PIN6 Gene-F<br>PIN6 Term-R                       | attB1-AAAGATGATAACGGGAAACGAA<br>attB2-TCTCACAAGCTCCTCAAGAACA      | Sense<br>Antisense |
| Gateway Homologous recombination             | attB1<br>attB2                                   | ACAAGTTTGTACAAAAAAGCAGGCT<br>ACCACTTTGTACAAGAAAGCTGGGT            | Sense<br>Antisense |
| <b>Promoter-Reporter Gene Binary Vectors</b> |                                                  |                                                                   |                    |
| pTPIN6::FiLUC                                | PIN6Prom-cc2F<br>Pin6Prom-cc1R                   | GCTCTAGAGTTTGCTGCAACTGTATGC<br>CATGCCATGGCTTTTTCTTTGCCTCTTCTTC    | Sense<br>Antisense |
| pMDCPIN6::GUS                                | PIN6Prom-F<br>Pin6Prom-R                         | attB1- GCAAAGTTTTATATATGCTCGGAT<br>attB2- CTTTTCTTTGCCTCTTCTTCTCT | Sense<br>Antisense |