Table 1 Summary of vector used for Agrobacterium floral dip transformation.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| line | background | Destination Vector | Entry Vector | PCR construct | Primer | Additioanl restriction site |
| pAHL18::AHL18:mRUBY | Col-0 | pBGWT | TaqmRUBY | pAHL18 2,5kb upstream | AHL18\_FWD | KpnI |
|  |  |  |  |  | AHL18\_REV | SalI |
| pAHl18::GUS | Col-0 | pMDC162 | pENTR A1 | pAHL18 2,2kb upstream | ATH\_FW | KpnI |
|  |  |  |  |  | ATH\_REV | SalI |
| pAHL18::mCHerry:mCHerry | Col-0 | pB7M35GW | pDONOR221, pEN-R2mCHERRY-L3, pEN-L1-mCHERRY-L2 | pAHL18 1,8kb upstream | pAHL18\_B4\_FOR |  |
|  |  |  |  |  | pAHL18\_B1\_REV |  |
| p35S::AHL18:GFP | RDR6 | pGWB5 | pDONOR221 | AHL18 CDS | AHl18\_B1\_FWD |  |
|  |  |  |  |  | AHL18\_B2\_REV |  |

Table 2 Primers used for genotyping of homozygous knockout line ahl18.

|  |  |
| --- | --- |
| Genotyping Primers |  |
| SAIL\_346\_C06\_LP | TATCGTTGGGGATGCTCTTAG |
| SAIL\_346\_C06\_RP | ACGTCATGGAGATAACCAACG |
| SAIL\_LBb1.3 | ATTTTGCCGATTTCGGAAC |

Table 3 Specific primers for At-hook area of AHL18 used for transcript quantification via qPCR

|  |  |
| --- | --- |
| q-PCR primers |  |
| AHL18\_QRT\_FW | AACGCTGGACGACAAAAACG |
| AHL18\_QRT\_REV | GGTTTGTTCTTGGAACCAGCA |
| EF1aF\_3 | GACAGGCGTTCTGGTAAGGA |
| EF1aR\_3 | GGTGGGTACTCAGAGAAGGT |

Table 4 Primers used for AHL18 PCR construct from gDNA for further cloning.

|  |  |
| --- | --- |
| Cloning Primers |  |
| AHL18\_FWD | CTGGTACCTCTGATGCTAAGTGCCG |
| AHL18\_REV | TCGTCGACTCCTCTTCTGATTCGC |
| ATH\_FW | CTGGTACCTCTGATGCTAAGTGCCG |
| ATH\_REV | TCGTCGACTCCTCTTCTGATTCGC |
| pAHL18\_B4\_FOR | GGGGACAACTTTGTATAGAAAAGTTGCTCTTGGCCTATCGGTTG |
| pAHL18\_B1\_REV | GGGGACTGCTTTTTTGTACAAACTTGCTCCTCTTCTGATTCGCTAAAA |
| AHl18\_B1\_FWD | AAAAAGCAGGCTACATGGATGAGGTATCTCGTTCTCATAC |
| AHL18\_B2\_REV | GGGGACAACTTTGTATAGAAAAGTTGCTCTTGGCCTATCGGTTG |