



Fig. 3 tae-miR399 targets *TaUBC24*. (A) Alignment between tae-miR399 and six MREs in the 5' UTR of *TaUBC24*. (B) The model of cDNA structure and mRNA cleavage site of *TaUBC24* determined by 5' RACE. tae-miR399 complementary sites (red lines) with the nucleotide positions of *TaUBC24* indicated. The RNA sequence of each complementary site from 5' to 3' and the miRNA sequence from 3' to 5' are shown in the expanded regions. The black arrow indicated a cleavage site verified by RLM 5'-RACE, with the frequency of cloned PCR products shown above the alignment. (a) The cleavage site of *TaUBC24* in wheat. (b) The cleavage site of *pTaUBC24* in *N. benthamiana*. (C) β -Glucuronidase (GUS) phenotype observed by histochemical staining. (a) pBI121- GUS (b) pBI121-tae-miR399 (c) pBI121-*pTaUBC24* (d) the mixture of pBI121-tae-miR399 and pBI121-*pTaUBC24*