

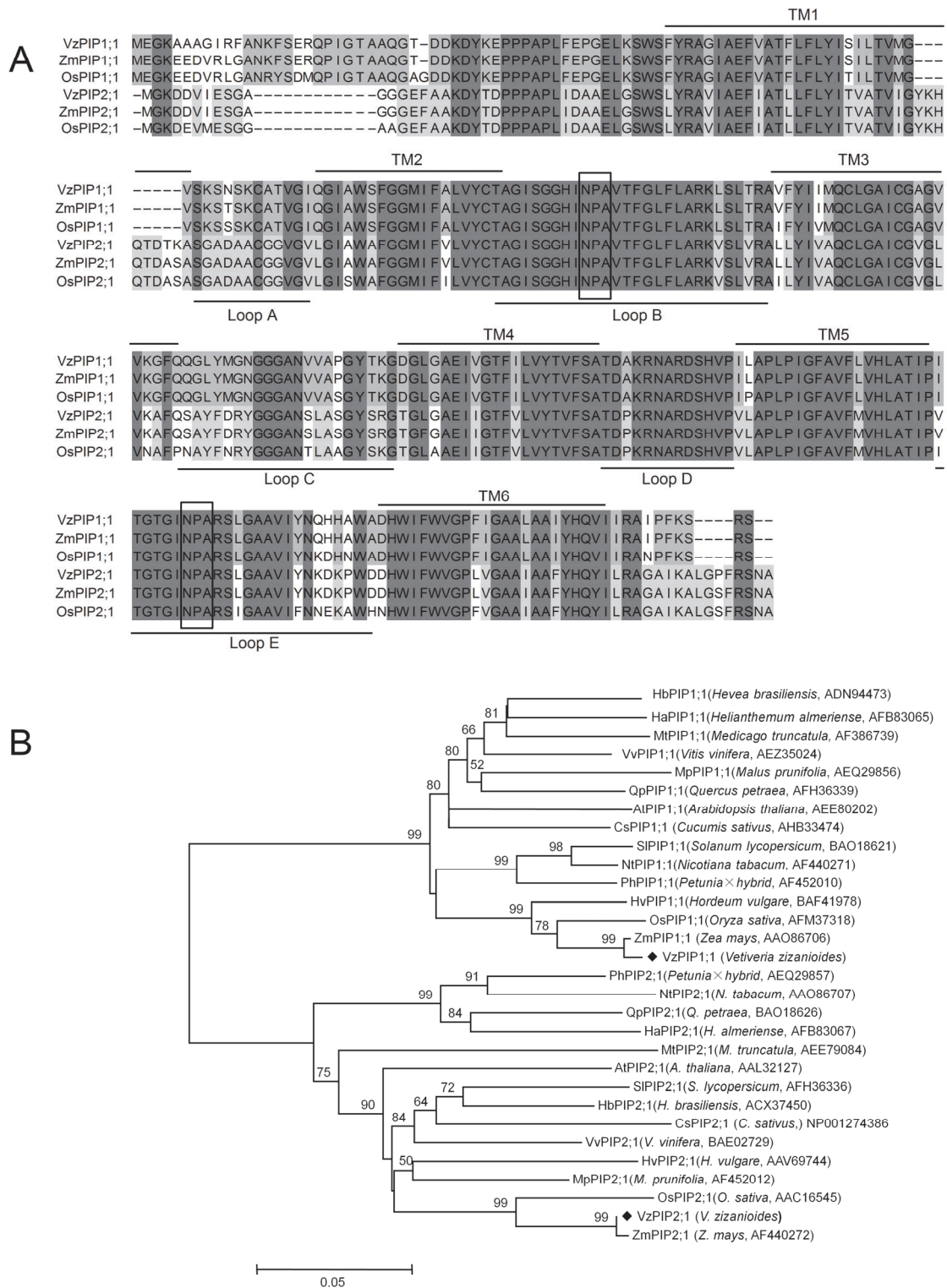


Fig. 1 Suppl. Deduced amino acid sequences of VzPIP1;1 and VzPIP2;1 proteins and their phylogenetic relationships. **A** - Alignment and the deduced structure of the VzPIP1;1 and VzPIP2;1 proteins. Six putative conserved transmembrane domains (TM 1-6) and five connecting loops (A-E) are indicated by the *solid lines*, two conserved Asn-Pro-Ala (NPA) motifs in loop B and loop E are displayed in the *boxes*. **B** - A phylogenetic tree of some PIP1;1 and PIP2;1 proteins from maize (ZmPIP), rice (OsPIP), *Arabidopsis* (AtPIP), and so on based on the deduced amino acid sequences was aligned by *Clustal W2*.

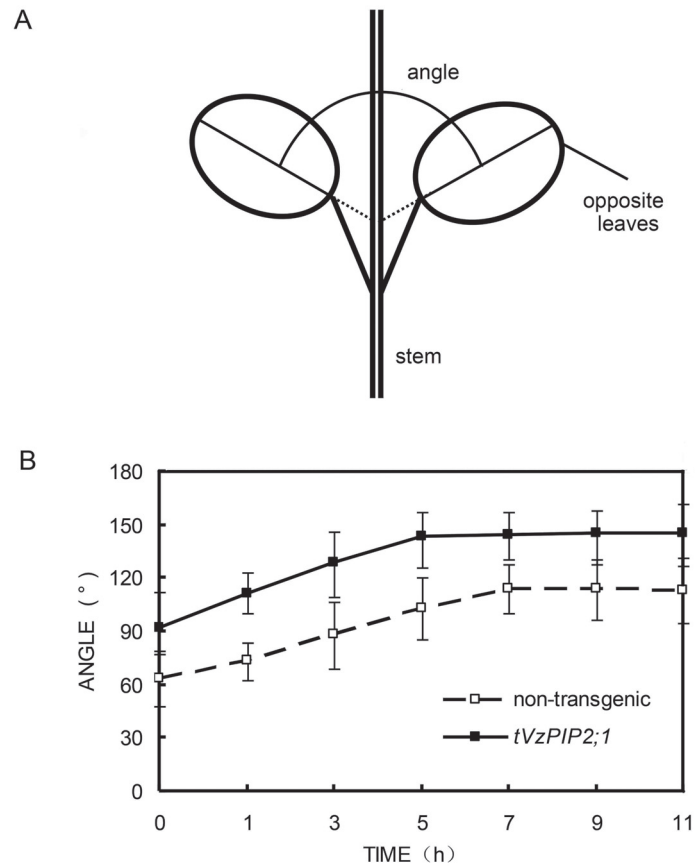


Fig. 2 Suppl. Comparison of opening angles between two opposite leaves of transgenic *VzPIP2;1* soybean seedlings (*tVzPIP2;1*), transformed by *Agrobacterium tumefaciens*-mediated adventitious shoot induction, and non-transgenic soybean plants (*Glycine max* cv. Lee68). *A* - A diagram of the opening angle between two opposite leaves; *B* - the effect of irradiance (the time after switching on) on angles between the two opposite leaves of *tVzPIP2;1* and non-transgenic soybean plants. Means $\pm$ SDs, $n = 3$.