

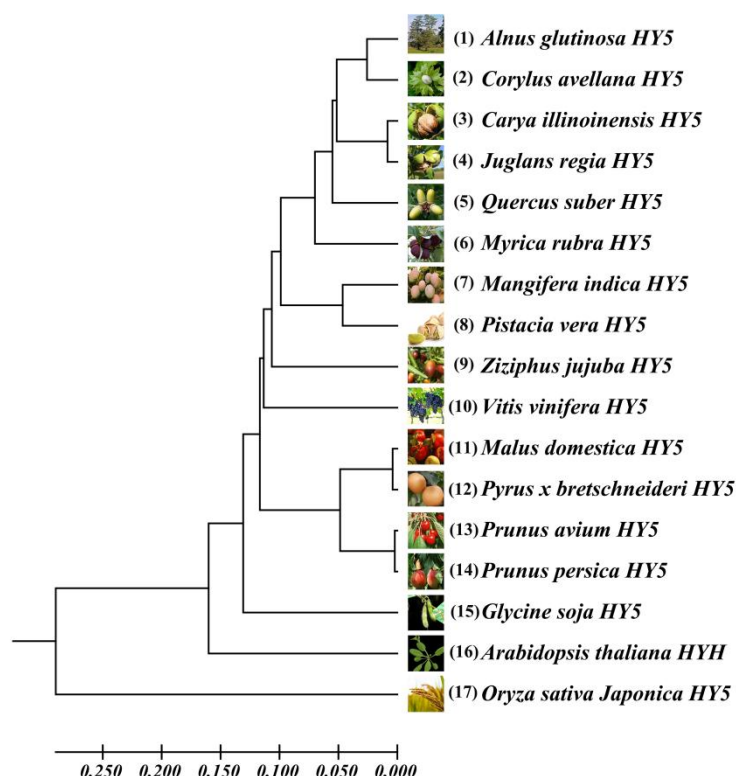


Fig. S2 Phylogenetic tree of HY5 proteins from different plants. The tree was generated using the ML method with MEGA6.0, and the bootstrap value was set as 1000. *Oryza sativa Japonica* Group transcription factor HY5 (LOC4327123); *Ziziphus jujuba* transcription factor HY5-like (LOC107433384); *Glycine soja* transcription factor HY5-like (LOC114406314); *Prunus persica* transcription factor HY5-like (LOC18792251); *Mangifera indica* transcription factor HY5-like (LOC123221145); *Pistacia vera* transcription factor HY5-like (LOC116144536); *Prunus avium* transcription factor HY5-like (LOC110755375); *Vitis vinifera* transcription factor HY5-like (LOC100261472); *Pyrus x bretschneideri* transcription factor HY5-like (LOC103944715); *Malus domestica* transcription factor HY5-like (NM_001293960.1); *Arabidopsis thaliana* HY5-homolog (NM_001084700.2); *Corylus avellana* transcription factor HY5-like (LOC132165499); *Quercus suber* transcription factor HY5-like (LOC112020306); *Alnus glutinosa* transcription factor HY5-like (LOC133858536); *Carya illinoensis* transcription factor HY5-like (LOC122316597); *Juglans regia* transcription factor HY5-like (LOC109005672)