



Fig. S3 Transient expression of *GhMYB* in tobacco leaves. (a) Co-expression of *Gh_A08G040700* with *GhTT2-3A* and *GhbHLH130D* significantly enhanced pigment deposition. *Gh_A08G040700* also augmented pigment accumulation induced by *GhMYB113* alone or in combination with *GhbHLH130D*. Transient expression of *GhTT2-3A* alone or together with *GhbHLH130D* in tobacco leaves resulted in brown pigmentation following DMACA staining. Expression of *GhMYB113* alone or in conjunction with *GhbHLH130D* leads to the production of light red anthocyanins, with brown substances becoming visible upon DMACA staining. The empty vector pGreenII 62-SK was used as the negative control. (b) *Gh_A11G258600* significantly suppressed pigment accumulation induced by the co-expression of *GhTT2-3A* and *GhbHLH130D*. Co-expression of *Gh_A11G258600* with either *GhMYB113* alone or in combination with *GhbHLH130D* also reduced pigment deposition. (c) *Gh_A11G00100* reduced pigment accumulation resulting from the co-expression of *GhTT2-3A* and *GhbHLH130D*, and also suppressed pigment deposition induced by either *GhMYB113* alone or in combination with *GhbHLH130D*. (d) *Gh_A08G061000* also significantly inhibited pigment deposition. (e) Co-transformation of *Gh_A12G129700* with *GhbHLH130D* could induce pigment deposition. (f) *Gh_A01G187100* significantly inhibited PA formed by *GhTT2-3A* and *GhbHLH130D*. (g) *Gh_A11G052400* inhibited the deposition of PAs. (h) *Gh_A11G171300* inhibited the deposition of PAs. (i) *Gh_A01G171400* inhibited the pigment formed by *GhTT2-3A* and *GhbHLH130D*. (j) *Gh_D09G186400* inhibited the pigment formed by *GhTT2-3A* and *GhbHLH130D*. (k) *Gh_A10G047100* had no detectable effect on pigment accumulation under our experimental conditions. (l) *Gh_A13G137700* had no detectable effect on pigment accumulation under our experimental conditions. Each experiment was repeated 3–5 times. The photographs were taken 7 d after infiltration.