



**Supplementary Figure S5. Production of  $\alpha/\beta$ -ODAP in *N. benthamiana* leaves transiently expressing BOS.** Shown are the concentrations of L-DAPA,  $\alpha$ - and  $\beta$ -ODAP in leaves from untreated plants (wt, green circles), plants injected with L-DAPA (wt + L-DAPA, blue circles), plants infiltrated with *A. tumefaciens* cells expressing BOS (BOS, orange circles), plants infiltrated with *A. tumefaciens* cells expressing BOS and injected with L-DAPA (BOS + L-DAPA, red circles), plants infiltrated with *A. tumefaciens* cells transformed with an empty vector (Vector, purple) and plants infiltrated with *A. tumefaciens* cells transformed with an empty vector and injected with L-DAPA (Vector + L-DAPA, black circles). The concentrations of L-DAPA,  $\alpha$ - and  $\beta$ -ODAP in extracted leaf samples were determined by LC-MS. Data represent the mean  $\pm$  SD of 3 to 7 replicate samples.