



FIGURE S2 Amino acid sequences alignment of pumpkin CmbHLH87 with others. The conserved domains (bHLH) are shown by thin underlines. The genes included are

bHLH87-like (*C. moschata* cv. ‘Rifu’, XP\_022953326.1), bHLH87-like (*C. pepo*, XP\_023547764.1), bHLH87-like (*C. maxima*, XP\_022992322.1), bHLH87-like (*C. melo*, XP\_008462383.1), bHLH87-like (*C. sativus*, XP\_004141799.1), bHLH87-like (*Nicotiana tabacum*, XP\_016504990.1), AtbHLH087 (*Arabidopsis*, AAM10960.1) and CmbHLH87 (*C. moschata* cv. ‘112- 2’, MH105822).