



Fig. 10 Expression and activity of starch hydrolase in Arabidopsis lines under freezing stress.

(A) Activity of α -amylase in Arabidopsis under freezing stress. (B) Activity of β -amylase in Arabidopsis under freezing stress. (C) Expression of *AtAPL1* in Arabidopsis lines under freezing stress. (D) Expression of *AtAPL3* in Arabidopsis under freezing stress. (E) Expression of *AtBAM1* in Arabidopsis under freezing stress. (F) Expression of *AtBAM3* in Arabidopsis under freezing stress. (G) Expression of *AtSEX1* in Arabidopsis under freezing stress. (H) Expression of *AtSEX4* in Arabidopsis under freezing stress.

Arabidopsis under freezing stress. (G) Expression of *AtSEX1* in Arabidopsis lines under freezing stress. (H) Expression of *AtSEX4* in Arabidopsis under freezing stress. All values in the figure are mean \pm SD (n = 3), *P* values (versus 24°C) were calculated with two-way ANOVA, * *P*<0.05, ** *P*<0.01, *** *P*<0.001, **** *P*<0.0001.