



**Fig.S4 MdABF1 plays a positive role in nitrate retrieval.**

(a-l) Fresh weight (a-b), root/shoot ratio of nitrate content (c-d), the *NRT1.5/1.8* genes expression in *Arabidopsis* and apple calli (i-l). *MdABF1* overexpression plants were treated with different concentrations of nitrate (0.2 or 10 mM KNO<sub>3</sub>) and ABA (0 or 30 μM). Error bars exhibit the means ± SD of three independent replicates. Asterisks indicate significant differences (LSD test, \**P* < 0.05).