

**Fig. S1 Folate synthesis pathway in plants. GTP, guanosine triphosphate; DHN, dihydroneopterin; DHM, dihydromonapterin; DHN-PPP, dihydroneopterin triphosphate; HMDHP, hydroxymethyldihydropterine; HMDHP-PP, hydroxymethyldihydropterinediphosphate; DHP, dihydropteroate; DHF, dihydrofolic acid; THF, tetrahydrofolic acid; *p*ABA, *p*-aminobenzoic acid; ADCS, aminodeoxychorismate; DHNA, chorismate mutase; ADT, arogenate dehydratase; and Glu, glutamic acid.**