



**Supplemental Figure 12.** The biosynthetic pathway and expression patterns of folate synthesis pathway genes during foxtail millet grain development. (a) Hierarchical clustering analysis of the relative expression levels of folate metabolism pathways genes during seed development; (b) Folate synthesis pathway during foxtail millet seed development. The rectangles represent the expression level of genes. ADC: Aminodeoxychorismate; pABA: para aminobenzoic acid; GTP: guanosine-triphosphate; DHN: dihydroneopterin; ADCS: aminodeoxychorismate synthase; ADCL: aminodeoxychorismate lyase; HPPK: hydroxymethyldihydropterin pyrophospho kinase; DHPS: dihydropterolate synthase; DHFS: dihydrofolate Synthetase; DHFR: dihydrofolate reductase; FPGS: folylpolyglutamate-synthase; GGH: gamma glutamyl hydrolase; GTPCHI: GTP cyclohydrolase I; DHNA: dihydroneopterin aldolase.