

1 **Supplemental Figures**

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3 **Fig. S1**

4 Effect of Suc feeding on AsA content and AsA biosynthesis genes expression of
5 Micro-Tom fruits. A, The AsA contents of fruits at the immature green (IMG),
6 breaker (BR) and orange (OR) stages of ripening fed with Suc and incubated under
7 continuous light for 48 h. Values are mean \pm SE ($n=3$). Statistical significance of
8 AsA were compared to the control fruits fed with H₂O using the *t*-test; * $p<0.05$ and
9 ** $p<0.01$. B, The expression level of genes in the D-man/L-Gal pathway for the
10 biosynthesis of AsA. Total RNA were isolated from the above fruits and transcribed
11 into cDNA for use in real time PCR. The expression levels were normalized to
12 elongation factor 1 alpha.

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15 **Fig. S2**

16 The distribution of labeled L-[6-¹⁴C]AsA in tomato fruits (shown in Fig. 5C and D) at
17 immature green (IMG), mature green (MG) and red (RD) stages of ripening
18 expressed as disintegration per minute per gram dry weight.

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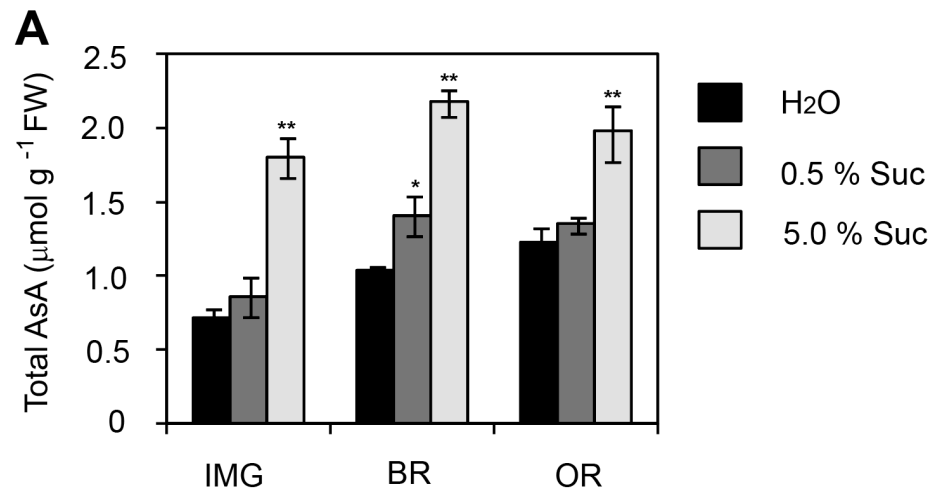
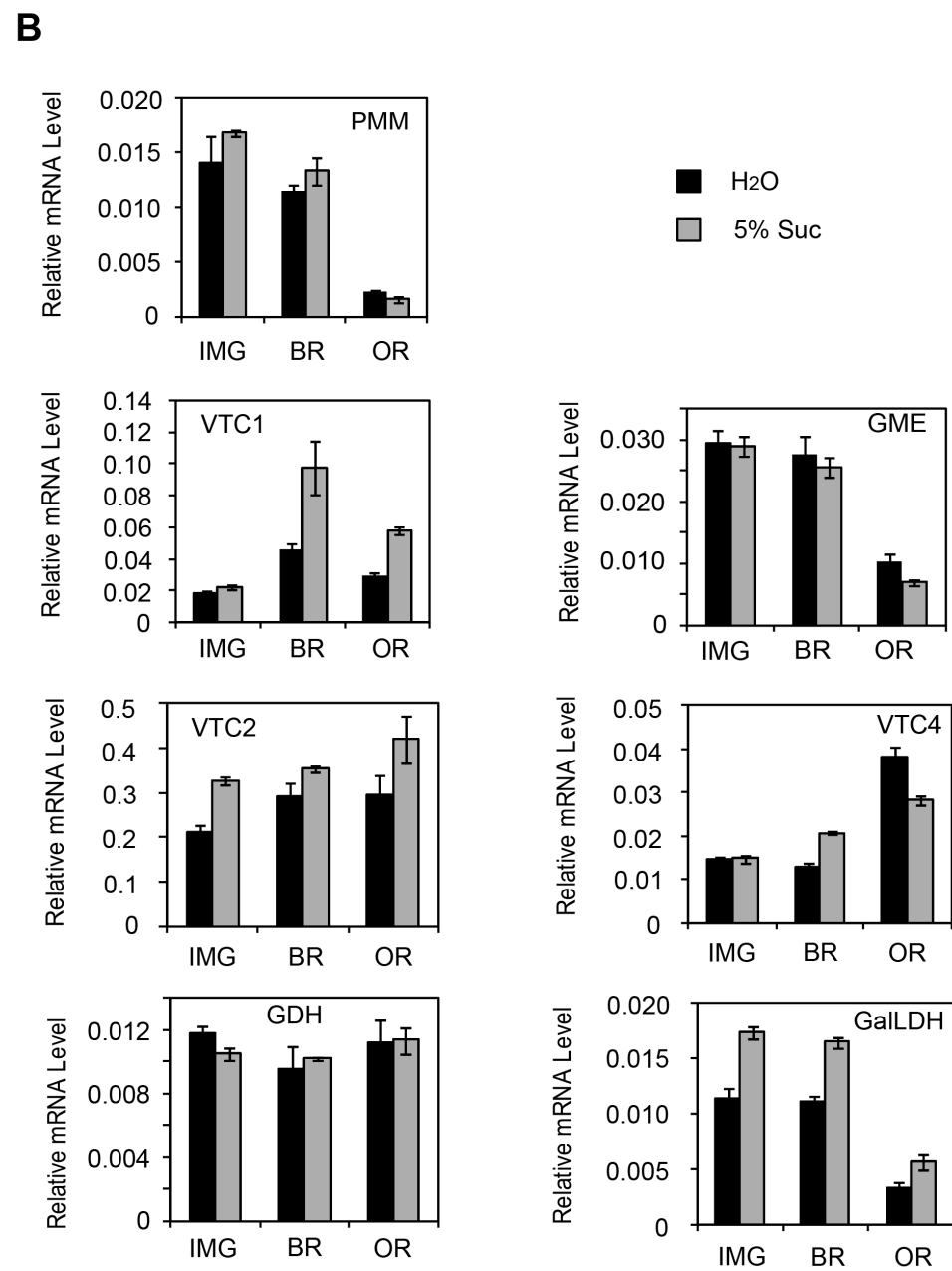


Fig. S1



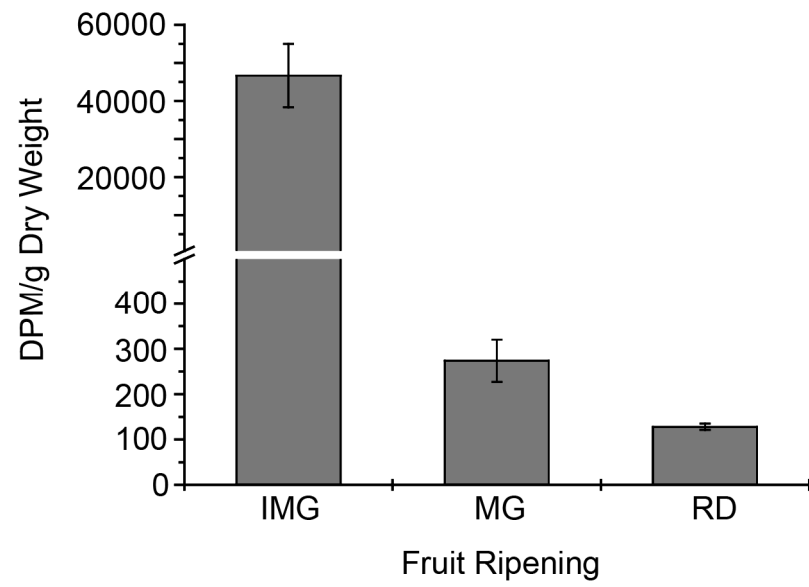


Fig. S2