

SUPPLEMENTARY INFO

Carotenoid metabolite and transcriptome dynamics underlying flower color in marigold (*Tagetes erecta* L.)

Running head: Color formation in marigold flowers

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SUPPLEMENTARY DATA

Supplemental Figure S1. Expression patterns of genes encoding enzymes putatively involved in the early 2C-methyl-D-erythritol 4-phosphate (MEP) pathway. Gene expression levels in the four flower developmental stages in both marigold 'V-01' and 'V-01M' are represented by heat maps. DXS, 1-Deoxy-D-xylulose 5-phosphate synthase; DXR, 1-Deoxy-D-xylulose 5-phosphate reductoisomerase; MCT, 2-C-Methyl-D-erythritol 4-phosphate cytidylyltransferase; CMK, 4-(Cytidine 50-diphospho)-2-C-methyl-D-erythritol kinase; MDS, 2-C-Methyl-D-erythritol 2,4-cyclodiphosphate synthase; HDS, 4-Hydroxy-3-methylbut-2-enyl diphosphate synthase; HDR, 4-Hydroxy-3-methylbut-2-enyl diphosphate reductase; GGPS, Geranylgeranyl diphosphate synthase.

Supplementary Table S1. Quality analysis of all reads from 24 samples.

Supplementary Table S2. Number of DEGs from all comparisons