**Supplementary Figures**

A group of images of different colored shapes

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**Figure S1.** MA plot showing differential gene expressions (a) CK\_30d vs CK\_40d, (b) CK\_30d vs T\_40d, (c) CK\_40d vs T\_40d, (d) CK\_40d vs CK\_90d, (e) CK\_40d vs T\_90d, (f) CK\_90d vs T\_90d, and (g) T\_40d vs T\_90d.

A group of circular objects with different colored circles

Description automatically generated with medium confidence

**Figure S2.** Gene Ontology (GO) enrichment results of the DEGs in mango under UV-B stress based on q-value <0.05. Top 20 GO enrichment in mango. (a) CK\_30d vs CK\_40d, (b) CK\_30d vs T\_40d, (c) CK\_40d vs T\_40d, (d) CK\_40d vs CK\_90d, (e) CK\_40d vs T\_90d, (f) CK\_90d vs T\_90d, and (g) T\_40d vs T\_90d.

A screenshot of a computer

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**Figure S3.** KEGG enrichment analysis represented the ratio between the number of DEGs mapped to a certain pathway that was significantly enriched in mango under UV-B stress based on p-value (FDR ≤ 0.05) (a) CK\_30d vs CK\_40d, (b) CK\_30d vs T\_40d, (c) CK\_40d vs T\_40d, (d) CK\_40d vs CK\_90d, (e) CK\_40d vs T\_90d, (f) CK\_90d vs T\_90d, and (g) T\_40d vs T\_90d.

A group of graphs showing different types of data

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**Figure S4.** KEGG enrichment analysis represented total number of genes mapped to the corresponding pathway in mango under UV-B stress (a) CK\_30d vs CK\_40d, (b) CK\_30d vs T\_40d, (c) CK\_40d vs T\_40d, (d) CK\_40d vs CK\_90d, (e) CK\_40d vs T\_90d, (f) CK\_90d vs T\_90d, and (g) T\_40d vs T\_90d.