

Table S28. Expression of cutin biosynthesis-related transcripts during sweet pitaya fruit development normalized with four normalization strategies. Relative expression (RE) was calculated through the $2^{-\Delta\Delta C_t}$ method using elongation factor 1-alpha (*StEF1a*), alpha-tubulin (*StTUA*), polyubiquitin 3 (*StUBQ3*), and *StEF1a+StTUA* as normalizing genes using the 10 DAF (days after flowering) stage as calibrator. Data represent the mean \pm standard error (SE) of each developmental stage (n = 4-6). Different letters denote significant differences (Tukey HSD test, $p < 0.05$) between developmental stages in DAF. Statistical analysis was carried out through stats packages in R Studio. The Ct data for the analysis was recorded by qRT-PCR in a QIAquant 96 5 plex (QIAGEN) according to the manufacturer's protocol. Abbreviations: Cytochrome p450 family 77 subfamily A (*StCYP77A*), Gly-Asp-Ser-Leu motif lipase/esterase 1 (*StGDSL1*), and ATP binding cassette transporter family G member 11 (*StABCG11*). *S. thurberi* transcripts identified in this study were designated with the prefix "St" and the name of their best homologous match from other plant species.

Transcript	Stage (DAF)	Normalizer			
		<i>StEF1a</i> (RE \pm SE)	<i>StEF1a+StTUA</i> (RE \pm SE)	<i>StTUA</i> (RE \pm SE)	<i>StUBQ3</i> (RE \pm SE)
<i>StCYP77A</i>	10	1.019 \pm 0.099 ^a	1.005 \pm 0.043 ^a	1.007 \pm 0.051 ^a	1.005 \pm 0.045 ^a
	20	1.450 \pm 0.116 ^b	1.248 \pm 0.028 ^b	1.361 \pm 0.156 ^b	1.174 \pm 0.073 ^a
	30	0.554 \pm 0.035 ^c	0.448 \pm 0.047 ^c	0.291 \pm 0.025 ^c	0.166 \pm 0.026 ^b
	35	0.657 \pm 0.058 ^c	0.558 \pm 0.038 ^c	0.551 \pm 0.025 ^c	0.487 \pm 0.081 ^c
	40	0.740 \pm 0.072 ^{ac}	0.575 \pm 0.069 ^c	0.566 \pm 0.075 ^c	0.527 \pm 0.099 ^c
<i>StGDSL1</i>	10	1.036 \pm 0.139 ^a	0.990 \pm 0.093 ^a	1.029 \pm 0.128 ^a	1.012 \pm 0.081 ^a
	20	1.364 \pm 0.151 ^a	1.062 \pm 0.091 ^a	1.009 \pm 0.063 ^a	0.986 \pm 0.056 ^a
	30	0.383 \pm 0.056 ^b	0.239 \pm 0.045 ^b	0.204 \pm 0.033 ^b	0.111 \pm 0.027 ^b
	35	0.166 \pm 0.016 ^b	0.174 \pm 0.029 ^b	0.196 \pm 0.031 ^b	0.113 \pm 0.012 ^b
	40	0.288 \pm 0.044 ^b	0.218 \pm 0.033 ^b	0.145 \pm 0.023 ^b	0.177 \pm 0.038 ^b
<i>StABCG11</i>	10	1.007 \pm 0.063 ^{ab}	1.008 \pm 0.057 ^{ab}	1.007 \pm 0.052 ^a	1.007 \pm 0.053 ^a
	20	1.497 \pm 0.187 ^{ac}	1.413 \pm 0.153 ^a	1.254 \pm 0.128 ^a	1.316 \pm 0.076 ^a
	30	0.777 \pm 0.060 ^b	0.463 \pm 0.074 ^c	0.599 \pm 0.109 ^b	0.322 \pm 0.072 ^b
	35	0.564 \pm 0.064 ^b	0.721 \pm 0.082 ^{bc}	0.276 \pm 0.051 ^b	0.337 \pm 0.075 ^b
	40	1.553 \pm 0.114 ^c	1.216 \pm 0.090 ^a	1.009 \pm 0.043 ^a	1.314 \pm 0.159 ^a