



**Figure S1.** Expression of *AhS5H1* and *AhS5H2* in transgenic Arabidopsis. Expression level of *AhS5H1* (a) and *AhS5H2* (b) in transgenic Arabidopsis plants. Expression was determined by qRT-PCR using *AtACTIN2* as the reference gene. Values are means  $\pm$  SD ( $n = 3$ ). Nd, not detectable.

**Table S2.** The correlation between compounds content and *AhS5H* transcription level (r value).

Compounds	<i>AhS5H1</i>	<i>AhS5H2</i>
SA	-0.8438	0.9600
2,5-DHBA	-0.7682	0.9319

Note: "+" indicates positive correlation; "-" indicates negative correlation. 0.8-1.0 indicates extremely high correlation; 0.6-0.8 indicates high correlation; 0.4-0.6 indicates moderately correlated; 0.2-0.4 indicates weak correlation; 0.0-0.2 indicates very weak or no correlation. The correlations between compounds content and *AhS5H* transcription levels were analyzed using the Pearson method of Microsoft Excel.