

Supplemental Figure 1. Extracted counts of ion pairs for multiple reaction monitorings of ubiquinone isotopes. Axenically grown Arabidopsis were fed for 3h with 250 μ M doses of phenylalanine-[¹³C₉] (left panels), tyrosine-[¹³C₉;¹⁵N] (center panels) or *p*ABA-[¹³C₆] (right panels). Red dots indicate the positions of the ¹³C isotope.



Supplemental Figure 2. Formation of the ring of plastid prenyl benzoquinones from tyrosine. R is phytyl (C_{20}) in the biosynthetic pathway of tocopherols, and solanesyl (C_{45}) in that of plastoquinone. HPPD, 4-hydroxyphenylpyruvate dioxygenase; HPT, homogentisate phytyl transferase; HST, homogentisate solanesyl transferase; TT, tyrosine transaminase

Supplemental Table 1. CoA ligase activity in Arabidopsis extracts				
	nmoles.mg ⁻¹ .h ⁻¹			
	<i>p</i> -coumarate	t-cinnamate	Ferulate	Caffeate
Wild type	49 ± 18	12 ± 5	31 ± 8	48 ± 11
at4g19010	54 ± 29	14 ± 9	44 ± 18	50 ± 13

Arabidopsis leaf extracts (18-36 μ g) were assayed with 2.5 mM ATP, 0.5 mM CoA and 100 μ M of various hydroxycinnamate derivatives for 30-60 min at 30°C. The formation of the corresponding CoA thioesters was monitored spectrophotometrically as described in the Methods. Data are means of three replicates ± S.E. Wild-type and *at4g19010* knockout (SALK_043310) values are not significantly different as determined by Fisher's test from an analysis of variance (p>0.3).