



**Supplemental Figure S2.** Semiquantitative RT-PCR profiling RNA encoding selected G protein pathway elements. RNA was extracted from leaves of 2 week old seedlings. (A). Primers to amplify full length RNA for: *GCR1*, *GPA1*, *AGB1*, *RGS1*, *THF1* and *SGB1* in wild type, *agb1-2* and a dominant mutant plant *sgb1-1<sup>D</sup>*, *agb1-2* (A) and a recessive *sgb1-2* mutant (B). All results were repeated at least once. Independent replicate results for *sgb1-2* are shown in (B). As expected, *AGB1* transcripts were absent in *agb1-2* and *sgb1-1<sup>D</sup>* *agb1-2*, and *SGB1* transcripts were elevated in *sgb1-1<sup>D</sup>* *agb1-2*, as expected. No significant changes in the transcripts of other proteins tested were detected in *sgb1* mutants. Similarly, in *agb1-2* mutants, the RNA level of other G protein signaling-related genes were not significantly altered. *GCR1* encodes a putative G-protein coupled receptor shown to interact with *GPA1* (Pandey and Assmann 2004). *GPA1* encodes the alpha subunit of the heterotrimeric G-protein complex (Ullah et al. 2001). *AGB1* encodes the beta subunit of the heterotrimeric G protein complex (Ullah et al. 2003). *RGS1* encodes the Regulator of G-protein Signaling protein (Chen et al. 2003). *THF1* encodes an outer membrane plastid protein shown to interact with *AGB1* at the plasma membrane (Huang et al. 2006). The *Actin2* gene was used for the loading control.

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