

Identification and expression profile of *GbAGL2*, a C-class gene from *Gossypium barbadense*

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Supplementary tables and figures

Table S1. Relative quantitation analysis of *GbAGL2* in ovules from *G. barbadense*

Tissues	<i>GbAGL2</i> Average C _T	<i>Ubiquitin</i> Average C _T	ΔC_T <i>GbAGL2</i> - <i>Ubiquitin</i>
Ovule (-3 dpa)	29.19 ± 0.18	25.40 ± 0.10	3.79 ± 0.20
Ovule (-1 dpa)	28.06 ± 0.04	23.97 ± 0.11	4.09 ± 0.12
Ovule (0 dpa)	28.43 ± 0.18	24.17 ± 0.07	4.26 ± 0.19
Ovule (+3 dpa)	28.61 ± 0.32	23.40 ± 0.15	5.20 ± 0.36
Ovule (+5 dpa)	28.40 ± 0.22	22.64 ± 0.09	5.76 ± 0.23
Ovule (+8 dpa)	29.21 ± 0.08	23.27 ± 0.23	5.94 ± 0.24
Ovule (+10 dpa)	28.47 ± 0.28	22.3 ± 0.13	6.17 ± 0.30
Ovule (+12 dpa)	30.18 ± 0.03	23.92 ± 0.13	6.26 ± 0.13

The ΔC_T value is determined by subtracting the average *Ubiquitin* C_T value from the average *GbAGL2* C_T value. The standard deviation of the difference is calculated from the standard deviations of *GbAGL2* and *Ubiquitin* values according to the User bulletin # 2 of ABI PRISM 7700 Sequence Detection System.

Table S2. Relative quantitation of *GbAGL2* in ovules from XZ142 (fl) and XZ142 (wt)

Tissues	Stages	<i>GbAGL2</i> Average C _T	<i>Ubiquitin</i> Average C _T	ΔC_T <i>GbAGL2</i> - <i>Ubiquitin</i>
XZ142 (fl)	ovule (-3 dpa)	28.24 ± 0.14	25.16 ± 0.13	3.08 ± 0.19
	ovule (0 dpa)	28.28 ± 0.09	24.74 ± 0.21	3.54 ± 0.23
	ovule (+5 dpa)	30.43 ± 0.04	26.6 ± 0.17	3.82 ± 0.18
XZ142 (wt)	ovule (-3 dpa)	27.77 ± 0.11	24.08 ± 0.16	3.70 ± 0.19
	ovule (0 dpa)	27.81 ± 0.13	23.08 ± 0.07	4.74 ± 0.15
	ovule (+5 dpa)	28.14 ± 0.22	22.93 ± 0.15	5.21 ± 0.27

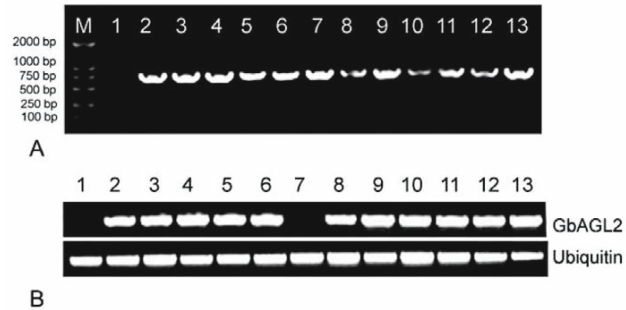


Figure S1. Screening of transgenic *Arabidopsis* plants. **(A)** PCR analysis of transgenic plants. Lane 1: wt *Arabidopsis* plants; 2–13: transgenic plants; DNA marker: DL2000, bands on the lane from top are 2000, 1000, 750, 250, and 100 bp. **(B)** RT-PCR analysis of transgenic plants. The *Ubiquitin* gene is used as the internal control. Lane 1: wt plant; 2–13: transgenic plants.

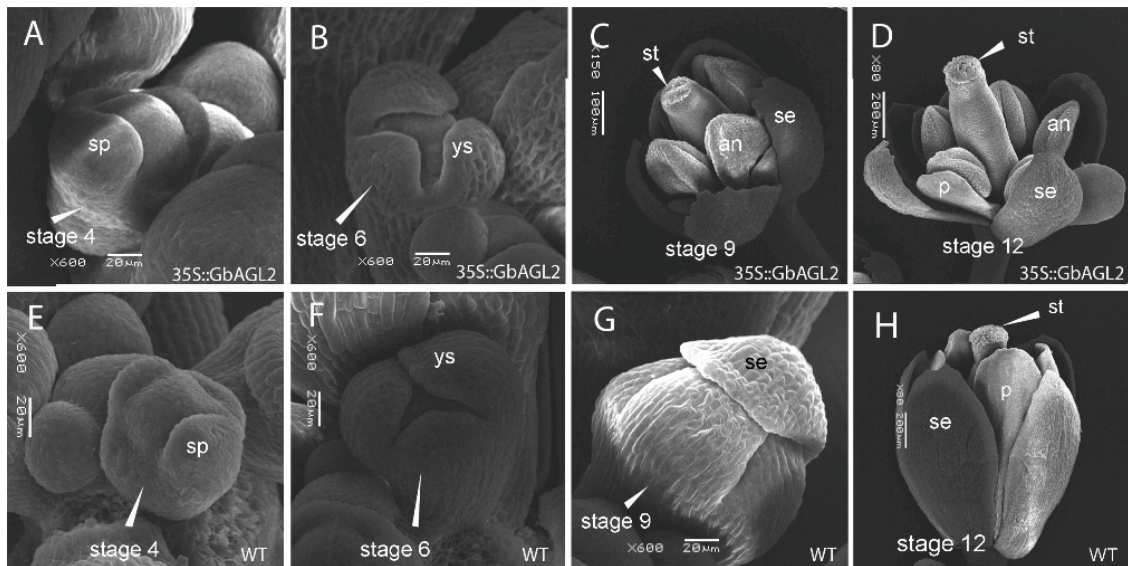


Figure S2. Phenotypic analysis in *GbAGL2* transgenic and wt *Arabidopsis* floral organs by scanning electron microscopy (SEM). **(A)** Lateral view of a transgenic bud at stage 4 in which the sepal primordia (sp) are visible. **(B)** Lateral view of a transgenic bud at stage 6 in which the young sepals (ys) are visible. **(C)** Lateral view of a transgenic bud at stage 9 in which the sepals (se) are slack. **(D)** Lateral view of a transgenic bud at stage 12 in which the stigma (st) extrudes from the bud. **(E)** Lateral view of a wt bud at stage 4 in which the sepal primordia (sp) are visible. **(F)** Lateral view of a wt bud at stage 6 in which young sepals (ys) are visible. **(G)** Lateral view of a wt bud at stage 9 in which sepals completely cover the bud. **(H)** Lateral view of a wt bud at stage 12 in which sepals have just opened and the stigma extrudes from the bud. se, sepal; st, stigma; p, petals