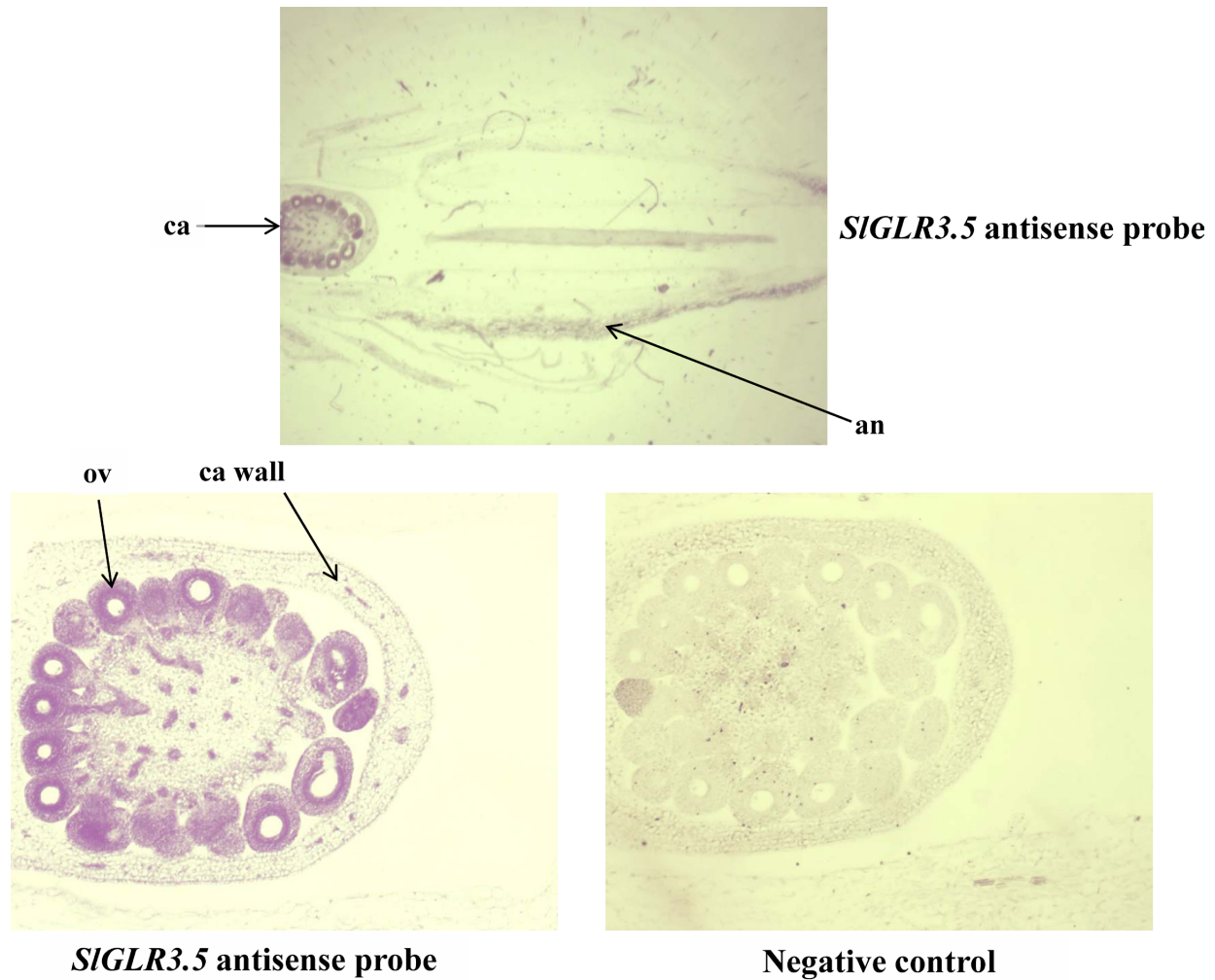


Supplemental Figure S1. Analysis of transgene expression. The expression levels of *SIGLR1.1* and *SIGLR3.5* mRNA in transgenic *Arabidopsis* were analyzed by quantitative real-time PCR. Total RNA was extracted from 3-week-old seedlings of representative lines. Endogenous *SIGLR1.1* and *SIGLR3.5* transcripts were not detected in wild-type Columbia plants.



Supplemental Figure S2. *In situ* hybridization of *SIGLR3.5* in floral organs. Longitudinal sections of flower buds showing the hybridization signal in the carpel (ca), ovule (ov) and anther (an). Because *SIGLR3.5* expression was detected in the flower, the spatial distribution of transcripts in the developing flower was investigated by *in situ* hybridization. *SIGLR3.5* mRNA was more abundant in reproductive organs: carpel and anther. A close examination of the carpel showed high signal intensity on the carpel wall and on the ovule tissue. A control hybridization using the sense probe showed no signal.

Supplemental Table S1. Sets of PCR primers for qRT-PCR analysis

cDNA	Primer sequence 5'→3'	Size (bp)
<i>SIGLR1.1</i>	Sense TTCCTAGGCTGGAACCTTCT	224
	Antisense AAGGAACACTTTGGCATGTG	
<i>SIGLR3.5</i>	Sense CTATGTGGGTTGGCATGTT	251
	Antisense CGGTCAGTTCTTGAACCATT	
<i>AtUBQ10</i>	Sense CCTAACGGGAAAGACGATTA	200
	Antisense GGAGCCTGAGAACAAGATGA	