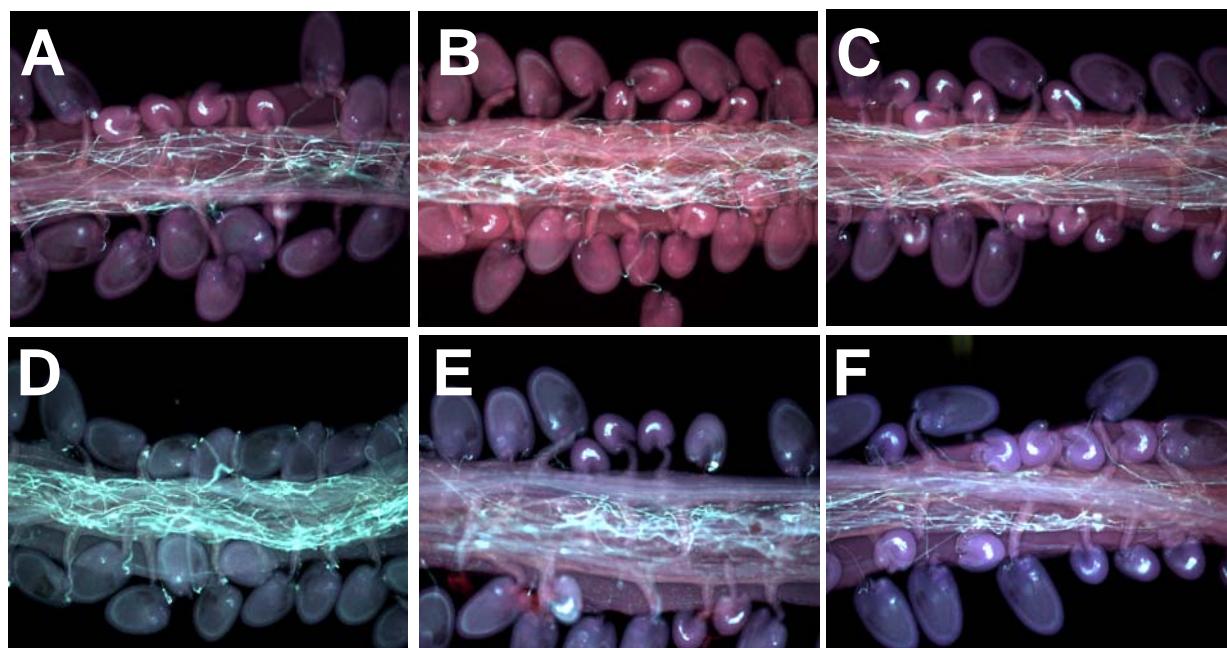
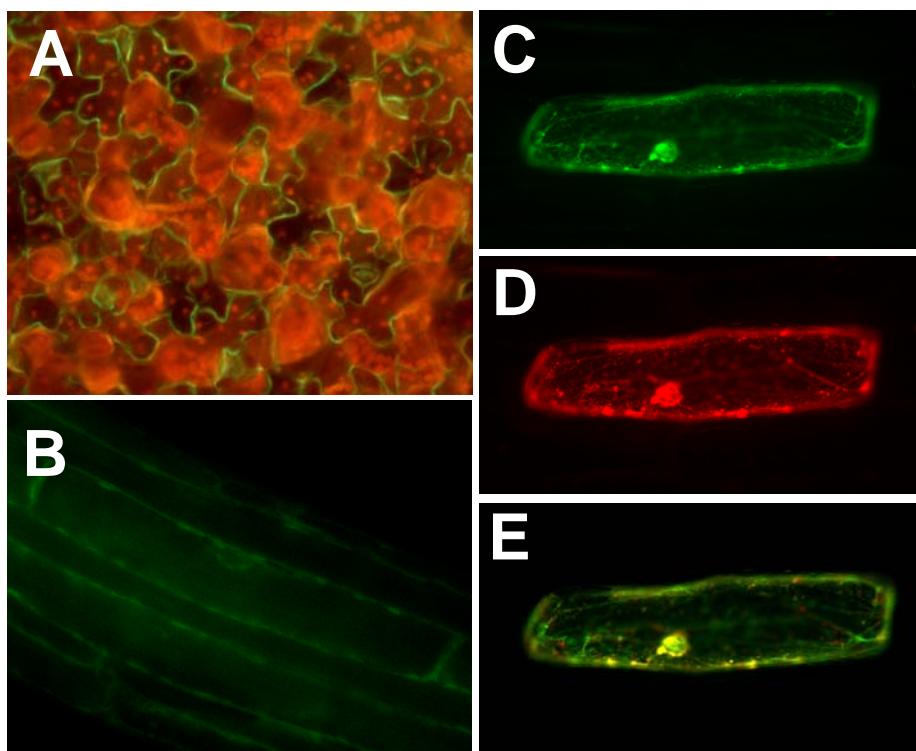


Supplemental Data. Wang et al. (2008) Truncation of a Protein Disulfide Isomerase, PDIL2-1, Delays Embryo Sac Maturation and Disrupts Pollen Tube Guidance in *Arabidopsis thaliana*



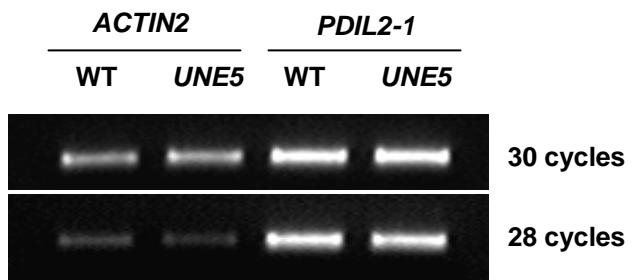
Supplemental Figure 1. Pollen tube growth defects.

(A). Siliques of a Truncation 1 transgenic plant. (B). Siliques of a Truncation 2 transgenic plant. (C). Siliques of a PDIL2-1 CDS transgenic plant. (D). Siliques of a PDIL2-1 CDSM transgenic plant. (E). Siliques of a line5 heterozygous plant. (F). Siliques of a line 5 homozygous plant.



Supplemental Figure 2. Subcellular Localization of PDIL2-1 and of the Truncated PDIL2-1 Missing D domain.

ProPDIL2-1:SP-YFP-PDIL2-1 expression in leaf epidermal cells (A) and in hypocotyl cells (B). D-domain truncated Silique of a Truncation 2 transgenic plant. (C). GFP-KDEL, an ER marker. (D) PDIL2-1 Δ D-tdTomato red fusion protein. (E) Overlay of (C) and (D).



Supplemental Figure 3. Expression of *PDIL2-1* in wild type and *UNE5*.

RT-PCR with inflorescences of wild type and the *UNE5* transposon insertion line. *Actin2* was used as control.

Supplemental Table 1. Embryo sac developmental stages in Line 4, 5 and *PDIL2-1* Transgenic Plants

	Undeveloped ovules	Normal embryo sac	1 or 2-nuclei embryo sacs	4-nuclei embryo sacs	8-nuclei embryo sacs (immature, no cellularization)
Line 5 HZ	50%	48%	21%	13%	17%
Line 5 HO	70%	22%	55%	9%	10%
Line 4 HZ	50%	48%	43%	-	-
Line 5 HO	59%	51%	20%	28%	-
CDS	49%	54%	30%	14%	-
Truncation 1	40%	46%	53%	-	-
Truncation 2	59%	77%	23%	-	-

Unpollinated pistils and open flowers were used for the phenotypic analysis of embryo sac development. HZ denotes heterozygotes and HO denotes homozygotes. The last 4 columns are embryo sac phenotypes in undeveloped ovules of different lines.

Supplemental Table 2. Primers Used for Identification of T-DNA Insertion Sites

T-DNA insertion lines	LP	RP
FLAG_015D01	TTTCGGTATTCAAGCTCCAATG	CAAATTGGCGATGACTACACC
FLAG_427G04	CTGAAGCTTGGCTGAATACG	ACCAAAGCATCTAAGCTTCG
SALK_046705	TGCCTGTCCAACTTACTTCTC	TTTCGGTATTCAAGCTCCAATG
SALK_082179	AATATGTTCAGGCACCAACG	CCTCTCCGTTCTTGCTAGC
SALK_135268c	CCGTGAAATTATGTGGAGAGC	CGTGGACCCTCATACCTATTG
SALK_148421	TGGGAAACTTGTAGCTTGG	CGAGACAACACTGCCTCTTC
SALK_097094	TCGCTTCTCATAGTCGAC	AGAACAAAGTGTCTGCTCTG
CS859015	CTTCTGAAGCTGCCCTAG	AAAAGAAACGTTCAATCTGAGTCTC
The T-DNA specific primer for SALK insertion lines is LBb1:		
GC GTGGACCGCTTGCTGCAACT; for FLAG insertion lines is FLAG-LB		
CGTGTGCCAGGTGCCACGGAATAGT; for CS859015 is		
p745: AACGTCCGCAATGTGTTATTAAGTTGTC. All primers listed in this table are oriented from 5' to 3'.		