

Supplemental Table 1. Nucleotide sequences of primer sets used in this study.

Primer	Sequence (5' to 3') ^a	PCR product
I. Semi-quantitative PCR		
<i>NcoI</i> LILIM15'	CCCC <u>CATGGCATTCAAGGGACAACCCAG</u>	<i>LILIM1</i> gene
<i>NcoI</i> BgII <i>LILIM13'</i>	CCCC<u>CATGGCAGATCTGGCTGTCTCAGCCACT</u>	<i>LILIM1</i> gene
LlrRNA5'	GGACAGTCGGGGCATTCTGAT	rRNA gene
LlrRNA3'	CCAGACAAATCGCTCCACCAAC	rRNA gene
II. Expressing fluorescent or non-fluorescent LILIM1 and deletion proteins		
<i>NcoI</i> LILIM15'	CCCC <u>CATGGCATTCAAGGGACAACCCAG</u>	<i>LILIM1</i> gene and truncated from
<i>Bg</i> II <i>LILIM15'</i>	AGTTCTAGAGGA <u>TAGATCTATGGCATTCAAG</u>	<i>LILIM1</i> gene
<i>NcoI</i> LILIM13'	CCCC<u>CATGGCAGATCTGGCTGTCTCAGCCACT</u>	<i>LILIM1</i> gene and truncated from
<i>NcoI</i> LILIM1 [△] Nt5'	CCCC<u>CATGGGTGCATGGCATGCACAAAGACAGTG</u>	<i>LILIM1</i> [△] Nt gene
<i>NcoI</i> LILIM1 [△] Zf15'	CCCC<u>CATGGGCGCTGCCACCACTGCAAGGGCACCC</u>	<i>LILIM1</i> [△] Zf1 gene
<i>NcoI</i> LILIM1 [△] LIM15'	CCCC<u>CATGGGTATGATCAACTCTTCAAGAGAACCTG</u>	<i>LILIM1</i> [△] LIM1 gene
<i>NcoI</i> LILIM1C5'	CCCC<u>CATGGGGCGAACAAAGTCTCAGGTGCATT</u>	<i>LILIM1C</i> gene
<i>NcoI</i> BgII <i>LILIM1</i> [△] Ct3'	CCCC<u>CATGGCAGATCTATGATGCCTGCAGTAAGTGTCCC</u>	<i>LILIM1</i> [△] Ct gene
<i>NcoI</i> BgII <i>LILIM1</i> [△] Zf43'	CCCC<u>CATGGCAGATCTTCCATGTGCGCATTGAAGCAGCT</u>	<i>LILIM1</i> [△] Zf4 gene
<i>NcoI</i> BgII <i>LILIM1</i> [△] LIM23'	CCCC<u>CATGGCAGATCTCTCTTTGTACCAGCAAATGC</u>	<i>LILIM1</i> [△] LIM2 gene
<i>NcoI</i> BgII <i>LILIM1</i> N3'	CCCC<u>CATGGCAGATCTATTCTCGGTACCGATGGGTTCTC</u>	<i>LILIM1N</i> gene
III. Expressing fluorescent protein and expression fluorescent marker protein		
<i>Xba</i> I RFP5'	AAACTCGAGCC <u>CATCTAGACC</u> ATGGCCTCCTCGAGGACG	RFP gene
<i>Bg</i> II RFP3'	CAGCACCTCTAGA <u>AGATCTGGCGCCGGTGGAGTGGCGGGCC</u>	RFP gene
<i>Bg</i> II mTalin5'	GGCGCCACCACCTGTTCTG <u>AGATCTAAC</u> TTGAGGAACAAAT CCTAG	<i>mTalin</i> gene
<i>Bg</i> II mTalin3'	CCC<u>AGATCTTAGTGCCTCGTCTCGAAGCTCTGAAG</u>	<i>mTalin</i> gene
<i>Bg</i> II PH5'	GGGATCCTCTAGAG <u>AGATCTGACTCGGGC</u>	PH gene
<i>Bg</i> II PH3'	CCGCGGTACCGTCGACT <u>AGATCTAGATGTTGAGCTC</u>	PH gene
<i>Xba</i> I CYS15'	CCCAGCTCGAATT <u>CTCTAGACC</u> ATGGGATGAGGCAG	CYS1:GFP gene
<i>Bg</i> II GFP3'	CTCAGTTGAATTCTAGATTA <u>AGATCTGGCGCCGG</u>	CYS1:GFP gene
<i>Nco</i> INAG5'	GGGGCCGCCGCC<u>CATGGCGAGGATCTGTGAC</u>	NAC:CFP gene
<i>Sac</i> ICFP3'	GGCCCGCGCGCGGGAG <u>GCTCTTATTGTATAGTCATCCATGCC</u>	NAC:CFP gene

^aThe sequences shown as underlined, bold, gray box, and italicize indicate the *Nco*I, *Bg*II, *Xba*I, and *Sac*I sites, respectively.

Supplemental Movie Legends

Time-lapse imaging showing constant intracellular distribution patterns of Nt PLC3, PI 4,5-P₂ and DAG in growing pollen tubes.

Single confocal sections of bombarded lily pollen tubes with 7.5µg plasmid expressing GFP (Movie 1), LILIM1:GFP (Movie 2 and 3) and with 3 µg plasmid expressing LILIM1:GFP (Movie 4). Six hours after gene transfer tubes were imaged at a rate of 1 frames per 9 s (30 images [Movie 1], 60 images [Movie 2 and 3] and 24 images [Movie 4] total), and are replayed at 2 frames (Movie 1, 2 and 3) and 1 frame (Movie 4) per second. All movies show central sections of pollen tubes lying flat on the cover-slip surface and represent at least 3 similar data sets collected in at least two independent experiments.

Supplemental Movie 1. Dynamic imaging of GFP and FM4-64 in pollen tubes overexpressing GFP.

Supplemental Movie 2. Dynamic imaging of LILIM1:GFP and FM4-64 in pollen tubes overexpressing LILIM1:GFP.

Supplemental Movie 3. Dynamic imaging of LILIM1:GFP and FM4-64 in pollen tubes overexpressed LILIM1:GFP.

Supplemental Movie 4. Dynamic imaging of LILIM1:GFP in pollen tubes moderately express LILIM1:GFP.