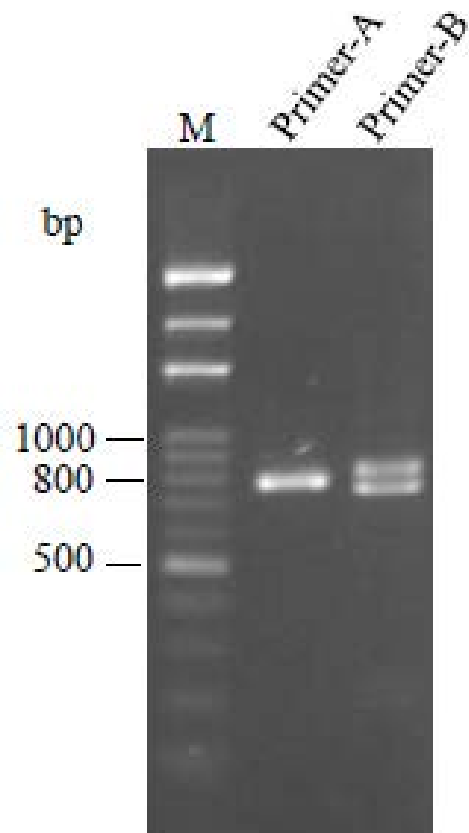


A novel lily anther-specific gene encodes adhesin-like proteins associated with exine formation during anther development. *Ming-Che Liu, Cheng-Shou Yang, Fang-Ling Yeh, Chi-Hsuan Wei, Wann-Neng Jane, Mei-Chu Chung and Co-Shine Wang*

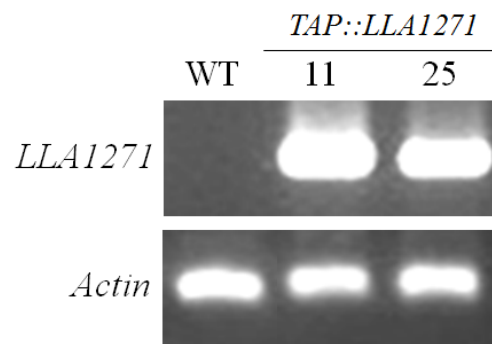
SUPPLEMENTARY DATA

1271a	ACGCGGGGATCTGCGTCTGTGAGGAATCAGCATCTACAAAAGATCATCTGAG	51
1271b	.....	51
1271a	ATG GCGAAACTCAGCTTCTGCGCTATCTTTTGGCTCTCGCCGTA ACT GCGGCAGCATTG	111
1271b	.....	111
1271a	M A K L S F C A I F L A L A V T A A A L	20
1271b	.....	20
1271a	CTTTCGGGCCACCATGCACAGCCGATAACAGAATGCCACCCCAAGTTGATGGGCCATTGC	171
1271b	.....	171
1271a	L S G H H A Q P I T E C H P K L M G H C	40
1271b	.....	40
1271a	ACAA---GAAACTCATCGTCCCAATTACATGCTGCTTCTGAACCAATTAAGCCGCTGCT	228
1271b	.....CAG.....	231
1271a	T R - N S S S Q L H A A S E P I K P S A	59
1271b	.....T G.....	60
1271a	AAGTCTATATGTCTGCACCAACCCAGTTACATGCTGTTTCTGAACCTGTGAAGCCATCT	288
1271b	.....	291
1271a	K S Y M S A P T Q L H A V S E P V K P S	79
1271b	.....	80
1271a	GCTAAGTCTATATGTCTGCAAAATTACATGCTGTCTCTGAATCAGTAAAGCCATCTGCT	348
1271b	.....	351
1271a	A K S Y M S A K L H A V S E S V K P S A	99
1271b	.....	100
1271a	AAGTCTTATATGTCTGCACCGCTGAATTGCATCTTGCCTCTGAACCGATGAAGCCGTCT	408
1271b	.....	411
1271a	K S Y M S A P P E L H L A S E P M K P S	119
1271b	.....	120
1271a	GCTAAGTCTTATATGTATGCACCACCCAAATTACATGCTGCCTCTGAAGCGGTGAAACCG	468
1271b	.....	471
1271a	A K S Y M Y A P P K L H A A S E A V K P	139
1271b	.....	140
1271a	TCTGTAAATCCTATATGTTGTATCACCCCAATTACATGCTGCCTCTGAACAGTGAAG	528
1271b	.....	531
1271a	S A K S Y M F V S P Q L H A A S E P V K	159
1271b	.....	160
1271a	CCGTCTGCTAAGTCTATATGTCCGCACAATTACATGTTGCCGCTGAACCAATAAAGCCG	588
1271b	.....	591
1271a	P S A K S Y M S A Q L H V A A E P I K P	179
1271b	.....	180
1271a	TCTACTAAATCCTATATGTTGTCTGTTGAGTCTATATGTCTGGAGTGCCCCAATTACAT	648
1271b	.....	651
1271a	S T K S Y M L S V E S Y M S G V P Q L H	199
1271b	.....	200
1271a	GAGGCCTCTGAACAGTGAATTCTGCTAAACCTATATATCTGCACCACACTCCGAGACT	708
1271b	.....	711
1271a	E A S E P V N S A K P Y I S A P H S E T	219
1271b	.....	220
1271a	CCCTTAAAAGTTGGAGTT TGA CAAGGTAAACCTACAAAAAGAATCGTGCCAATGTTATGT	768
1271b	.....	737
1271a	P L K V G V *	225
1271b	.....	226
1271a	TTTT CGGTGGTTACTGTTTTTCTATCTCTG TGTTTCCAGGCTATATAGAATTTGGT GC	828
1271b	.....	755
1271a	AGTAGCTTGGGGTGGAAATAATGGCTG CATGGAAATATCTATATTAATGGAAAAATAATGC	888
1271b	.....	815
1271a	ATTATCGGATGTTAAGGAATGCTAATGTTATCATATACTATGGTGT AATAAA CAATTATG	948
1271b	.....	875
1271a	GAATCAAAAAAGTTTGTGTAT	970
1271b	.....	897

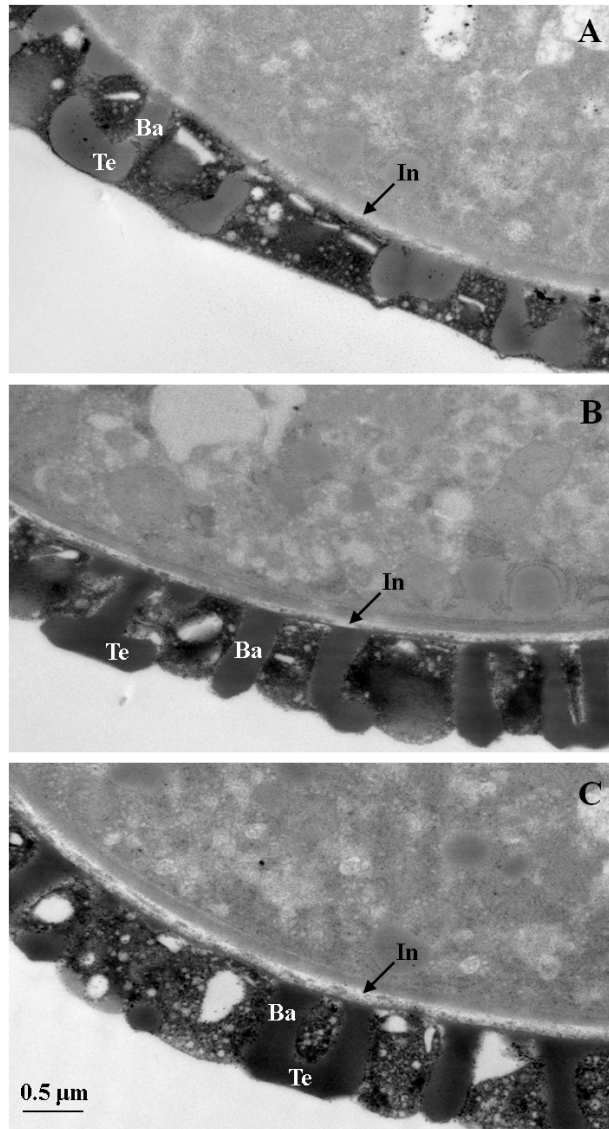
Supplementary Fig. S1. Nucleotide and predicted amino acid sequences of *LLA1271* cDNA clones. Bold letters in the nucleotide sequence indicate the start and stop codons and the polyadenylation signal. A vertical arrow indicates the cut site of a signal peptide of LLA1271 proteins in the N-terminus. The underlined sequence indicates the synthetic peptide used for the production of antiserum. The box indicates the putative N-glycosylation (N-X-S/T) and phosphorylation (S/T-X-K/R) sites. 3'-primer A and B used for 5'-RACE are also indicated. A dash in the sequence indicates a gap introduced in order to maintain good alignment. Identities are represented by dots.



Supplementary Fig. S2. Identification of two forms of *LLA1271*. 5'-RACE PCR was performed with primers A and B, respectively. The PCR products were fractionated by 1.5% agarose gel and stained with EtBr. The 1 kb ladder markers (M) are indicated at the left.



Supplementary Fig. S3. RT-PCR analysis of *TAP::LLA1271* transgenic lines. RT-PCR was performed on total RNA (1 μ g/line) isolated from five week-old inflorescence of wild-type and the two *TAP::LLA1271* transgenic lines 11 and 25. The fragment of *LLA1271* was amplified using a pair of specific primers to *LLA1271*. The *actin* gene was used as a quantitative control.



Supplementary Fig. S4. Transmission electron micrographs of *TAP::LLA1271* pollen grains. Micrographs of the pollen wall regions of the two *TAP::LLA1271* transgenic lines 11 (B) and 25 (C) were compared with that of wild-type pollen wall (A). Ba, Bacula; In, intine; Te, tectum.