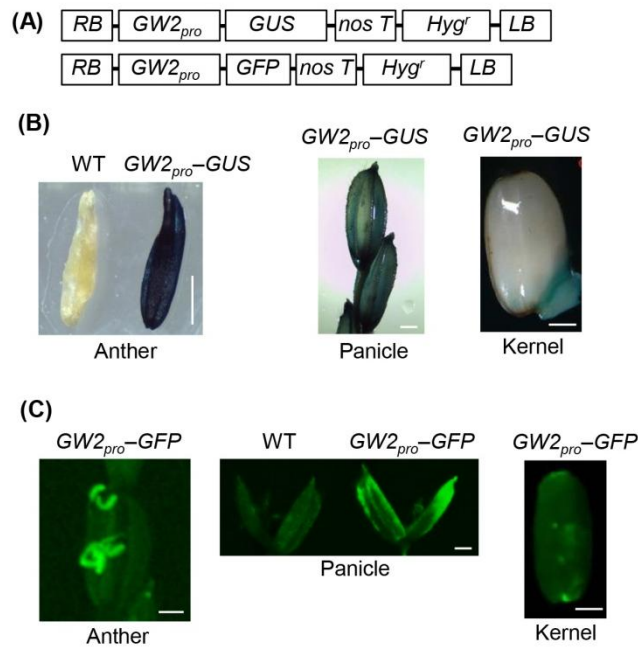




Supplementary Figure S1. GUS and GFP expression patterns directed by the GW2 promoter. (A) Binary vectors for GW2 promoter analysis, with the promoter region fused to the *GUS* or *GFP* reporter genes. RB, right border; GW2_{pro}, GW2 promoter; GUS, β-glucuronidase; GFP, green fluorescent protein; nos T, nos terminator; Hyg^r, hygromycin resistance; LB, left border. (B) Examination of GUS expression in GW2_{pro}-GUS transgenic rice. (C) Detection of GFP fluorescence in GW2_{pro}-GFP transgenic rice. GFP imaging was performed using a LAS 4000 imager. Scale bar: 1mm.

Supplementary Table S1. The sequences of the primers used in this study.

Primer Use	Gene	Forward Primer	Reverse Primer
Gateway Cloning	GW2	5'- ATGGGGAACAGGATAGGGGG AG-3'	CAACCATGCCAACCCTTGCGAGTG-3'
	GW2 Promoter	5'- GGGCTAATGGCTGTTCAATTGACA CTG-3' 5'- cagtGGATTCATGGGGAACAGGAT AGGGG GGAG-3'	5'- AAGCTTGAATCCCTTCTTCTGGTCGATG TCCCTG-3' 5'- tcagtAAGCTTCATCAACCATGCCAACCC TTGCG-3'
	EXPLA1	5'- ATGGCCGTCTCTGTCCGTTGCTG CTTCGG-3'	5'- CTTCCACTCGTGCGTGTGCGAGGGGA-3'
Protein expression Yeast two hybrid	GW2	5'- tcagtGAATTCATGGGGAACAGGA TAGGGGGGAG-3'	5'- tcagtGTCGACCATCAACCATGCCAACCC TTGCGA-3'
	GW2-N terminus		5'-agtcGAATTCAGTCTGGGCAGA-3'
	GW2-C terminus	5'-tagtCATATGAGCATGCGCCCT- 3'	
	GW2-300 N terminus		5'- TCGTGTCGACAGCCATGTAAGAGAAG-

			3'
	<i>EXPLA1</i>	5'- agtcGAATTCATGGCCGTCTCTGT CCGTT-3'	5'- agtcCTCGAGCTACTTCCACTCGTGCGTG- 3'
Overlapping PCR	<i>K237R terminus</i> N		5'-CACCCACCTCCCGTCGTAGCCGC-3'
	<i>K237R terminus</i> C	5'- GACGGGAGGTGGGTGTGGGCC GA-3'	
	<i>K279R</i>		5'- agtcCTCGAGCTACTCCACTCGTGCGTG-3'
Overexpression	<i>EXPLA1</i>	5'- agtcCTCGAGATGGCCGTCTCTGT CCG-3'	5'-agtcACGCGTCCCTTCCACTCGTGCGT- 3'