

**Table S1.** The primer used in this study.

Primer name	Primer name	Primer sequence (5'-3')
<b>Map-based cloning</b>		
RM6581-F		GCTCGAGAACCATGTGGGATAGC
RM6581-R		CCCACCTCGTTCTCCTTCTCC
RM7650-F		TTACAGTCAAGGTCTCGCTCTCG
RM7650-R		TCGGAAGACCACTCACTCTCTCC
RM3632-F		GGTGAAATACACGGTGACTTGAGG
RM3632-R		TGGTTCTTCTTCAGCAGTGTCC
RM1261-F		ATGGTAGAGACACAAGTCCATGC
RM1261-R		GACAAATTGGTGTAGGTGAAGG
1-20-F		AAGGAGAAGTGGAGGTTAAGATAGGG
1-20-R		GTTAATTTACTGACCGGCCATGC
1-21-F		GTGATGCTTTCGTCGTCGTTGG
1-21-R		GGAGGACAAGAACAAGAACAAGAACG
<b>CRISPR/Cas9 vector</b>		
U6AL- <i>Osbg1</i> -F	AAACTGCTAGATGCTACTg	tttagagctagaaat
U6AL- <i>Os-bg1</i> -R	AGTAGCATCTAGCAGTTTCC	ggcagccaagccagca
U-F	CTCCGTTTTACCTGTGGAATCG	
gR-R	CGGAGGAAAATTCCATCCAC	
Pps-F	TTCAGAggtctcTctcg	ACTAGTATGGAATCGGCAGCAAAG
Pgs-R	AGCGTGggtctcGaccg	ACGCGTATCCATCCACTCCAAGCTC
<b>Complementation and GFP vector</b>		
F	ATGGGGAGCACGGGGCGC	
R	GCCTTCGTTCTGCAGCAACC	
L-F	ctgtacaaggagctcggatcc	ATGGGGAGCACGGGGCGC
L-R	caggctcgactctagaggatcc	GCCTTCGTTCTGCAGCAACC
Promotor-F	TGAGTGCACCACCATTTCAGATAA	
Promotor-R	GAGGCGTGAAGAAGACTTGTGC	
Com/pro-F	gagctcggtacccgggatcc	TGAGTGCACCACCATTTCAGATAA
Com/pro-R	catGAGGCGTGAAGAAGACTTGTGC	
Com/CDS-F	agtcttcttcacgcctc	ATGGGGAGCACGGGGCGC
Com/CDS-R	cttgcatgcctgcaggtcgac	CTAGTTCATGTCAGCTTTGTTCTCAGC
<b>GUS vector</b>		
Pro-F	tggctgcaggtcgacggatcc	TGAGTGCACCACCATTTCAGATAA
Pro-R	tcttagaattcccgggatcc	GAGGCGTGAAGAAGACTTGTGC