Table S1 PCR primers used in this study

Name	Sequence (5' to 3') *	RE	Note
Gcs1-F	ATGCTAGAGCTTACATTTTCGTTCC	-	amplify the full length DNA and cDNA sequence of
Gcs1-R	ATCACTGCGGACCTTGCCCACCA	-	*PdGcs1*
Gcs1-up-F	GGGGTACCTCTTTGGAATGGAGGTGATG	*Kpn*I	amplify the upstream DNA sequence of *PdGcs1*
Gcs1-up-R	CGAGCTCAAGAAGAGGCATAGAGGTGG	*Sac*I	
Gcs1-down-F	GACTAGTAGTGGCGTACAATTTGCTG	*Spe*I	amplify the downstream DNA sequence of *PdGcs1*
Gcs1-down-R	CCGCTCGAGTTGATGTTAAGAACGATGCTG	*Xho*I	
Gcs1–check-F1	CTGGGAGTTTGCGGTCTA	-	amplify the internal fragment of the *PdGcs1*
Gcs1–check-R1	CGCTCTTCAATCAGGGTT	-	
Gcs1-check-F2	TGTGAGACATCTTGATTGGGACT	-	amplify the upstream DNA sequence of *PdGcs1* and partial
Gcs1-check-R2	CCGCCTGGACGACTAAACC	-	*hph* gene from △*PdGcs*1 mutant
Gcs1-SB-F	ATCCACGATGGCTCAACA	-	amplify the upstream DNA sequence of *PdGcs1* and used as

Gcs1-SB-R	AACCTGTCCCAAGATACCG	-	a probe for Southern blot
Gcs1-com-F	GG<u>GGTACC</u>TTTGGAATGGAGGTGATG	*Kpn*I	amplify the *PdGcs1* coding region, its upstream and downstream sequences
Gcs1-com-R	CCC<u>AAGCTT</u>GCGAAGCCTACAGTGCC	*Hind*III	
Gcs1-qF	CTACTCGTCGCCCGTTCA	-	quantitative analysis of *PdGcs1* expression
Gcs1-qR	AATCACTGCGGACCTTGC	-	
β-actin-F	TCCACTACTGCCGAGCGTGAAAT	-	amplify the reference gene (β-actin) in qRT-PCR assay
β-actin-R	CCGCCAGACTCAAGACCAAGAAC	-	

RE, restriction enzyme

*Introduced restriction sites are underlined.