

Supplemental Information

Table S3 Gene cloning and Q-PCR experimental procedure

Gene cloning and Q-PCR experimental procedure of parthenogenetic RWW.

1. Gene cloning

Use the cDNA obtained by reverse transcription as a template for gene cloning. The reaction process is as follows:

Composition of PCR reaction solution (50 μ L)

Reagent	Dosage
TaKaRa <i>Taq</i> (5 U/ μ l)	0.25 μ l
10X PCR Buffer (Mg^{2+} plus)	5 μ l
dNTP Mixture (each 2.5 mM)	4 μ l
Template	1 μ g
Upstream primer	1 μ M
Downstream primer	1 μ M
ddH ₂ O	Up to 50 μ l

Reaction conditions:

Initial denaturation	98 °C	2min	
Denaturation	98 °C	10 sec	} 35 Cycles
Annealing	50 °C	30 sec	
Extension	72 °C	30 sec	
Final Extension	72 °C	10 min	

Purify PCR products according to the kit instructions (AP-GX-50G, Corning, USA), and ligate it to the PMD18-T vector (9057, 6011, Takara Biotechnology Co. Ltd., Dalian, China). Sequencing by BGI (Shenzhen, China).

2. Q-PCR

Real-time quantitative PCR was performed in the StepOnePlus™ Real-time PCR system (Thermo Fisher Scientific, Shanghai, China). TB Green Premix Ex Taq kit (RR420, Takara Biotechnology, Dalian, China) was used to for qRT-PCR with the internal control of β -actin.

Reaction conditions:

Initial denaturation	98 °C	2min	
Denaturation	98 °C	10 sec	} 35 Cycles
Annealing	49 °C	30 sec	
Extension	72 °C	10 sec	
Final Extension	72 °C	10 min	

After each extension, detect the absorbance value.

Data were analyzed by the classic $2^{-\Delta\Delta C_t}$ method.