

Table S1. RT-qPCR primer sequences of all genes used in the present study listed. SRR346404 is the NCBI accession number of transcriptome of *L. vannamei* established by our laboratory.

Gene	Forward/Reverse primer sequence (5'-3')	Reference/GenBank
GC	CTTGGACCTGAGACCAGAG CAGATGATGACATTCCTTA	From SRR346404
Dopamine receptor D ₄	GGATTTCTTGAGGTCCCACAC ATCTTCTCGTTGATGTTCCGA	From SRR346404
14-3-3	CCTGTGCTGCTTGAGTGGGT AAGGGGACGGATGGTGTT	From SRR346404
FXD2	TCAATGAAGATGAGCCGTAAC AAAGCCAGGGAAGAAGG	From SRR346404
CREB	AGACTGCTGGCTGGAATAACT ACAAGAATCCTCGCGTAAA	From SRR346404
K ⁺ -channel	TTTGCGGAAAAGACGAA ACACACGGACCCAATGAC	From SRR346404
NKCC	ATTGCTGCGGCTACATACA GCCAATGCCAATACTGCTA	From SRR346404
Rh	ACAGCACGGAAAAGGAAGG TTGTCAACCAGGGAGGAGA	From SRR346404
VAMP	TGGCAGCACAGAAACGAC GTGAGGCTCCCTGCTGAA	From SRR346404
β-actin	TGGACTTCGAGCAGGAGATG GGAATGAGGGCTGGAACAGG	AF300705
18s	TATACGCTAGTGGAGCTGGAA GGGGAGGTAGTGACGAAAAAT	EU920969