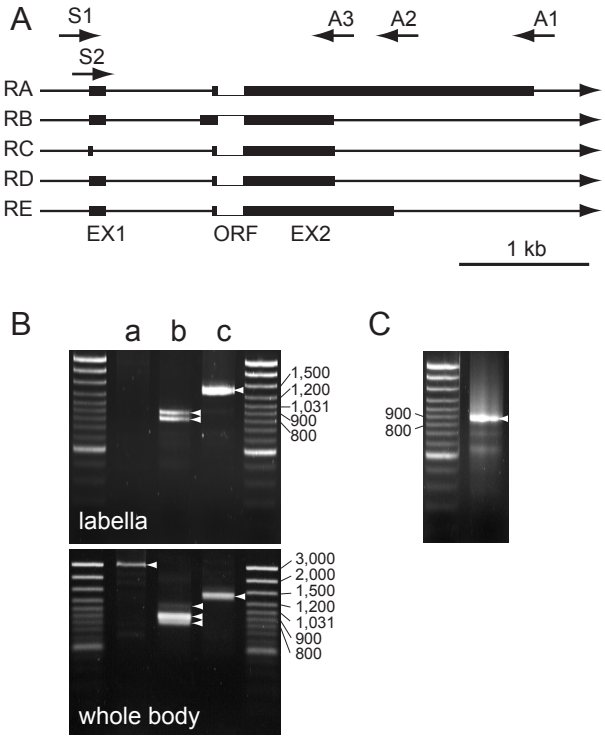

Figure S2 Alternative transcriptional forms of *Gγ1* are expressed in gustatory organ. (A) A schematic diagram shows the gene structure of five transcripts of *Gγ1* gene. Arrows show primer sites used for detection of *Gγ1* transcripts (S1, S2 and A1-3). (B) Multiple transcript forms of *Gγ1* were detected by RT-PCR in taste organ. Primers combinations are: *Gγ1*.RA (a: S1 and A1), *Gγ1*.RB,C and D (b: S1 and A3) and *Gγ1*.RD (c: S1 and A2). Primer sequences are: S1, TATCGCCGCGCGGCACATCA; A1, CGCACCGAACCCGGTGCCAC; A2, TGTTGTTACGGGAATGAAAT and A3, ATGTATTTCCGTTTCGACTG. The sizes of PCR products are 2,580 bp (RA), 1,114 bp (RB); 832 bp (RC), 923 bp (RD) and 1,405 bp (RE). Lane numbers (a, b and c) correspond to PCR reactions using different primer combination (a: S1-A1, b: S1-A3 and c: S1-A2). These results show expression of *Gγ1*.RC (832 bp) and RE (1,405 bp). However, the PCR product size of 923 bp is possibly derived from *Gγ1*.RD and there remains a possibility that this PCR product is derived from *Gγ1*.RA. To discern this possibility, we carried out 3' RACE and *Gγ1*.RD was detected from labellum mRNA. (C) 3' RACE shows expression of *Gγ1*.RD in labellum. Primers used for 3' RACE: forward, AAACATATAAGCCGGAGCTG and dT24. PCR product of *Gγ1*.RD is 825 bp. All PCR products were confirmed by sequencing. These results suggest that *Gγ1*.RC, RD and RE are expressed in labellum.

Supplementary Data