Supplemental Figure 1

In situ hybridization of BNP (A), OLGC7 (B), CNP3 (C) and OLGC2 (E) genes at 4dpf, and of CNP3 (D) gene at 3 dpf in medaka embryos with sense probe as negative control. Scale bars show 100 μm.

Supplemental Figure 2

Immunohistochemistry of BNP in the heart of 4 dpf medaka embryos. (A, B) control (buffer injected), (C, D) BNP knockdown. Competitive inhibition of BNP with an excess amount of medaka-BNP peptide did not detect immunoreactive signals of BNP (B, D). The scale bar represents 20 μm.

Supplemental Movie 1

Heart beating of control (A) and BNP/OLGC7 knockdowned (B) embryo at 3 dpf.

Supplemental Movie 2

Heart beating of control (A) and CNP3 knockdowned (B) embryo at 3 dpf.

Supplemental Table 1. Primers used for cloning, RT-PCR, real-time PCR and ISH analyses

Supplemental Table 2. Antisense peptide nucleic acids (gripNAs) for gene knockdown experiment

The targeting sequences for translational start site are indicated as bold, and the targeting sequences for intron are indicated as underline.