Figure S6  Embryonic shep mRNA and SHEP protein expression patterns.  (A-B) Ectopic expression of shep in stage 11-12 engrailed-Gal4/UAS-shep embryos was detected by in situ hybridization (A) and immunostaining (B) with an anti-SHEP antiserum.  (C-F) Expression of shep was detected in oocytes (arrows in panels C-D) in the ovaries of P14 stage pharate adult females and in syncytial blastoderm embryos (panels E-F) by in situ hybridization (blue) and immunostaining with antibodies to SHEP (gray).  (G-N) Expression of shep in early embryonic stages detected by in situ hybridization.  Each top-bottom pair of images shows signals from the same embryo with dark field and köhler illumination.  Zygotic shep was first detected at stage 7 in the pro-cephalic neurogenic region (arrow, panel K).  (O-V) In later embryonic stages, the expression of shep expanded to include the entire central and peripheral nervous systems.  Each top-bottom pair of images are lateral (top) and ventral (bottom) views of the same embryos.  Arrows, putative mesectoderm; open arrowheads, ventral neurogenic region; arrowheads, peripheral nervous system.  (W) Anti-SHEP immunostaining produced labeling in the CNS, PNS (arrows), and the antennomaxillary complex and labral sensory complex (arrowhead).  (X) Control in situ hybridization with the sense probe in an Oregon R embryo.  The embryonic stage is indicated in the lower right corner of each panel.  Scale bars: (C, D), 25 μm; (all other panels), 50 μm.