



Fig. S1. *In situ* hybridizations, showing expression of the CCHamide-1 and -2 genes in endocrine cells of the larval and adult midgut of *D. melanogaster*. See Fig. 3 for a schematic presentation of the distribution of CCHamide-1 and -2 immunoreactive endocrine cells in the midgut. (A) CCHamide-1 cells (the arrows show some examples) in the posterior part of the larval anterior midgut. This region corresponds to the region highlighted in red in Fig. 3A. Scale bar = 100 μm . (B) CCHamide-1 cells (the arrows show some examples) in the adult anterior midgut. Scale bar = 100 μm . (C) CCHamide-2 cells (the arrows show some examples) in the larval anterior midgut. Scale bar = 100 μm . (D) CCHamide-2 cells (the arrows show some examples) in the adult anterior midgut. Scale bar = 100 μm .