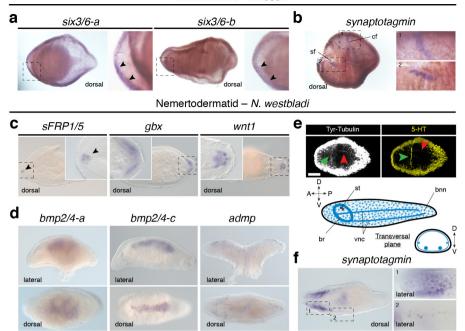
Xenoturbellid - X. bocki



Extended Data Figure 2 | Gene expression in X. bocki and N. westbladi. a, Two six3/6 paralogues are expressed in the anterior head margin in X. bocki (arrowheads). b, The neural marker synaptotagmin (syt) is detected in the circumferential (cf; inset 1) and side (sf; inset 2) sensory furrows in X. bocki. c, In N. westbladi, the anterior marker sFRP1/5 (arrowhead) and the posterior genes gbx and wnt1 are asymmetrically expressed along the anteroposterior axis of N. westbladi. d, The BMP ligands bmp2/4-a and bmp2/4-c are expressed dorsally, whereas the BMP

antagonist *admp* is expressed dorsolaterally. **e**, The CNS of *N. westbladi* comprises an anterior ring-like commissure (green arrowheads) and a main pair of ventral condensations (red arrowheads). **f**, The neuronal marker *syt* is highly expressed in the anterior part (inset 1), and in the nerve cords (inset 2). In the different panels, dotted rectangles indicate magnified areas. In all panels, the anterior pole is to the left. The schematic drawing in **e** is not to scale. Scale bar, $100\,\mu m$ in **e**.