Supplementary Figure 1

Partial protein multiple sequence alignment showing the homeobox and adjacent sequences of six3 (a) and otx (b) orthologues in comparison with other closely related homeobox genes.


Supplementary Figure 2

Expression of six3 and otx in different stages of Platynereis, Strigamia, and Euperipatoides and in relation to the larval eyes in Platynereis.

Single- (a-h) and two-colour (l-m) whole-mount in situ hybridisations of six3 (a, c, e, g, i), otx (b, d, f, h, k-m), the Platynereis larval eye pigment cell marker gene Pdu-tryptophane-2,3-dioxygenase (l) and adult eye photoreceptor cell
marker *Pdu-r-opsin* (m). *Platynereis* larval stages: 24h (l), 36h (a, b) and 48h post-fertilization (c, d, m). *Strigamia* stages: 1st leg-bearing segment stage (e, f) and mid-germ band stage (g, h). *Euperipatoides* mid-segmentation stages (i, k). Yellow arrowheads in (a, b, g, h): mouth opening. sr: stomodaeal roof. (a-h): Ventral views. (i-m): Apical views; ventral to bottom.
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