

Supplementary Materials:

ATGGTGAGCAAGGGCGAGGAGCTGTTACACGGGGTGGTGCCCATCCTGGTCGAGCTGGA
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TGCACTTAGGTCCATTGGCCTGAAGTGCTGGAACATCTTTCTTCTTAACTTATTGGTG
ACCAGCCTATCGACACTTTCCTCATGGAGATGCTAGAAAATCCAAGCCCAACGACATAG

Legend: eGFP-T2A-Neo-dT2A-LymRXR ligand sensor

Figure S1: The DNA sequence of the LymRXR sensor construct.

The LymRXR sensor construct is comprised of eGFP (green), T2A (blue), Neomycin (Neo) cassette (pink), degenerate T2A (blue) and GAL4 DNA binding domain fused to the LymRXR ligand binding domain (grey).

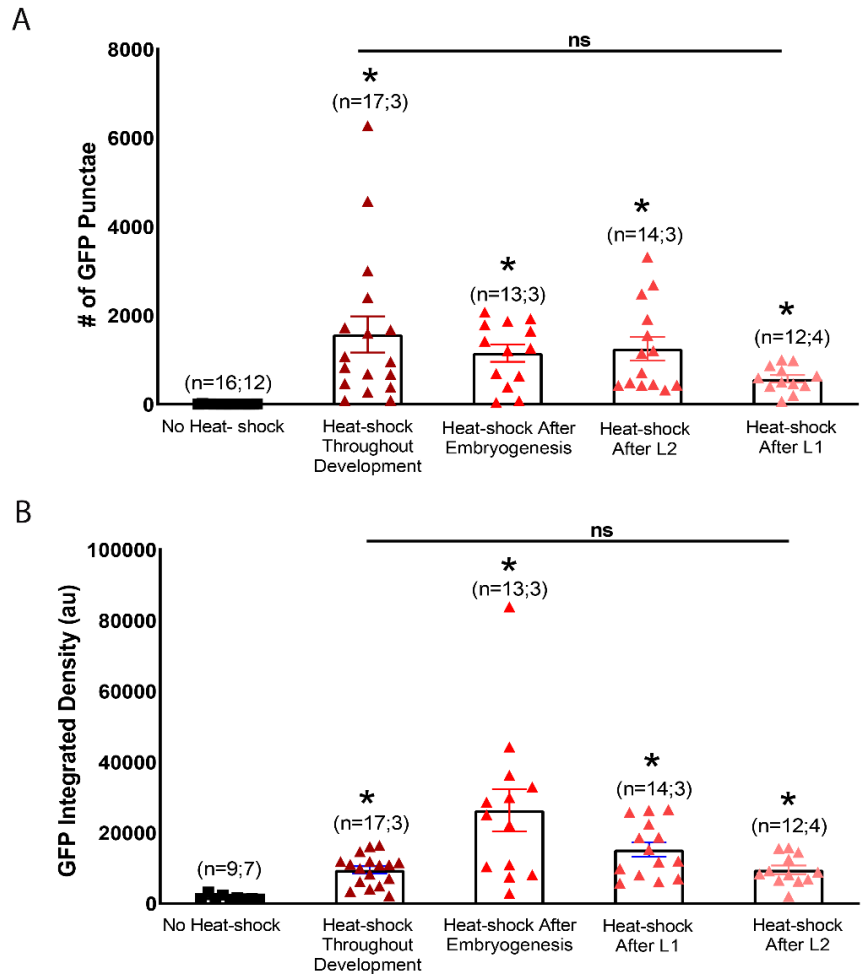


Figure S2: Quantification of sensor expression following different heat-shock paradigms. Quantitative analysis of GFP levels showing no significant changes in either the number of GFP punctae (A) or GFP integrated density (B) across larvae, heat-shocked at different developmental stages. All heat-shocked larvae exhibited significantly higher levels of GFP compared to control larvae not subjected to heat-shock. * $p < 0.05$; compared to no heat-shock controls; ns: no significant difference. Numbers in brackets represent the total number of CNS and the number of separate trials.