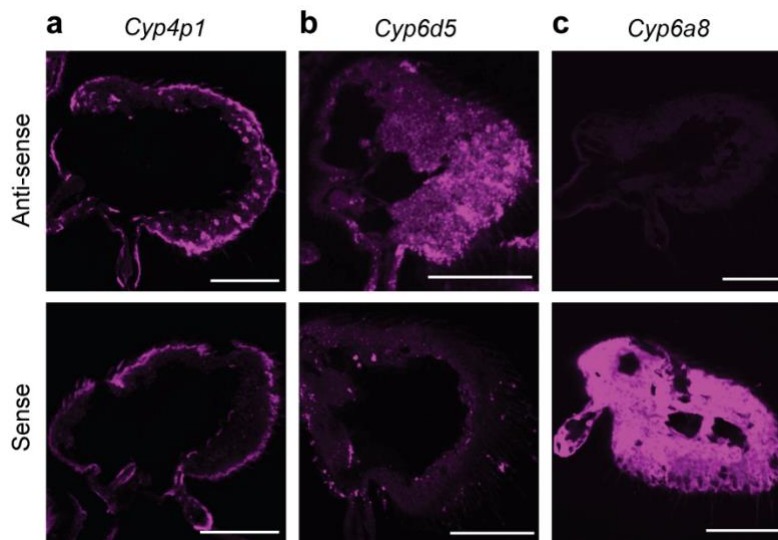


Supplementary Information

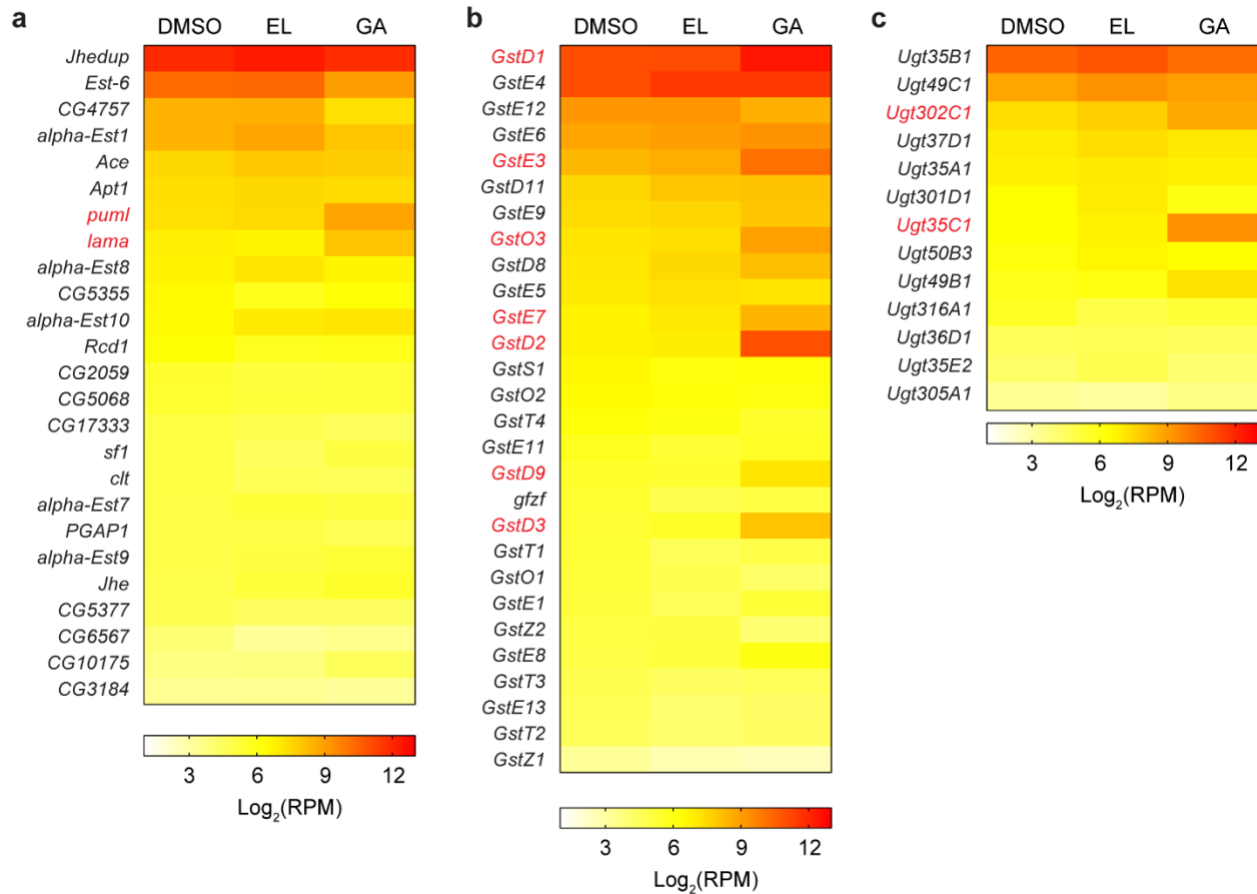
Identification and characterization of CYPs induced in the *Drosophila* antenna by exposure to a plant odorant

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Supplementary Figure 1. FISH can be used to localize *Cyp4p1* and *Cyp6d5*, but not *Cyp6a8*.

(a) Antennal sections from wild-type flies exposed to 5% geranyl acetate for two hours show cellular labeling with an anti-sense *Cyp4p1* FISH probe, but not a sense control probe. Non-specific cuticular labeling on the edge of the antenna is also observed. (b) Similar to (a), but for *Cyp6d5*. (c) A *Cyp6a8* anti-sense FISH probe does not label antennal sections from wild-type flies exposed to geranyl acetate, but non-specific staining is seen in sense probe controls. Scale bars are 50 μm in each image.



Supplementary Figure 2. Expression of other ODEs following odorant exposure. **(a)** A heat map showing the average expression in log₂(RPM) of each of the antennal-expressed carboxylesterase genes in each odorant exposure condition (n=3). **(b)** Similar to **(a)**, but for GSTs. **(c)** Similar to **(a)**, but for UGTs. In each panel, GA-induced genes are in red font.