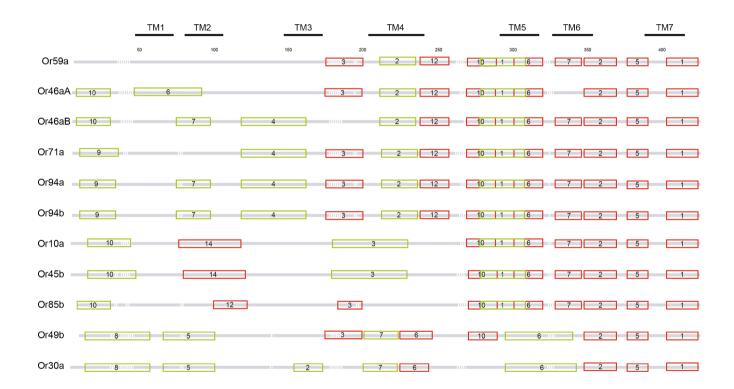
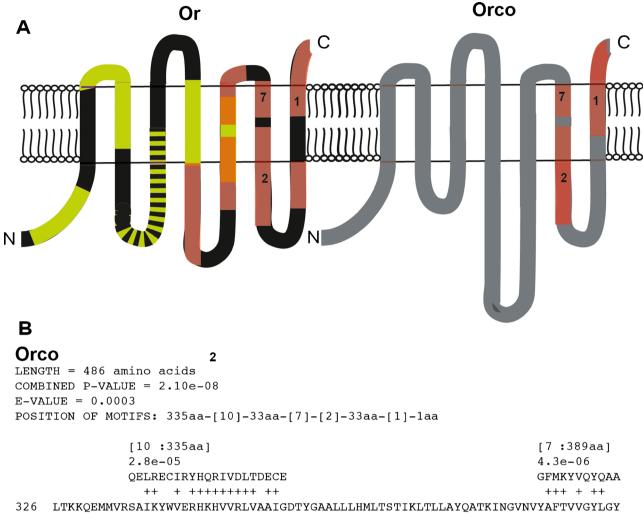
Molecular determinants of odorant receptor function in insects

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Supplementary figure 1. Locations of motifs in the 11 *Drosophila* phenol odor receptors. Phenol-specific motifs are indicated in green, and family-wide motifs are indicated in red. Transmembrane domains are indicated as bars on top of sequence.



[2 :410aa] [1:464aa] 6.0e-10 1.0e-05 MIWQIFLPCYYGNEVTEQSNDLCHAAYSTNW LPTFTKTINCA ++ +++ +++++ + ++++++ +

 $401 \quad \texttt{ALAQVFHFCIFGNRLIEESSSVMEAAYSCHWYDGSEEAKTFVQIVCQQCQKAMSISGAKFFTVSLDLFASVLGAV}$

YSFFALLKRV +++ ++ 476 VTYFMVLVQLK

Supplementary figure 2. Orco shares four motifs with the canonical odor receptors. (A) Position of motifs in a canonical odor receptor and Orco. (B) Higher resolution sequence map of the 4 motifs 1, 2, 7 and 10. Amino acids scored as similar are indicated with a '+'. P-values for each hit are indicated.