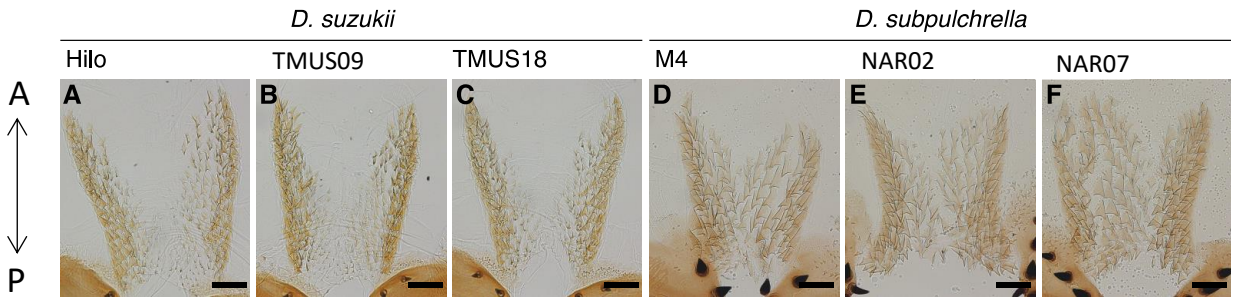

Fig. S1 Oviprovector scales from additional strains. (A–C) Oviprovector scales from dissected ovipositors in three additional strains, Hilo, TMUS09, and TMUS18, of *D. suzukii*. (D–F) Oviprovector scales from dissected ovipositors in three additional strains, M4, NAR02, and NAR07 of *D. subpulchrella*. Scale bar indicates 50 μm.

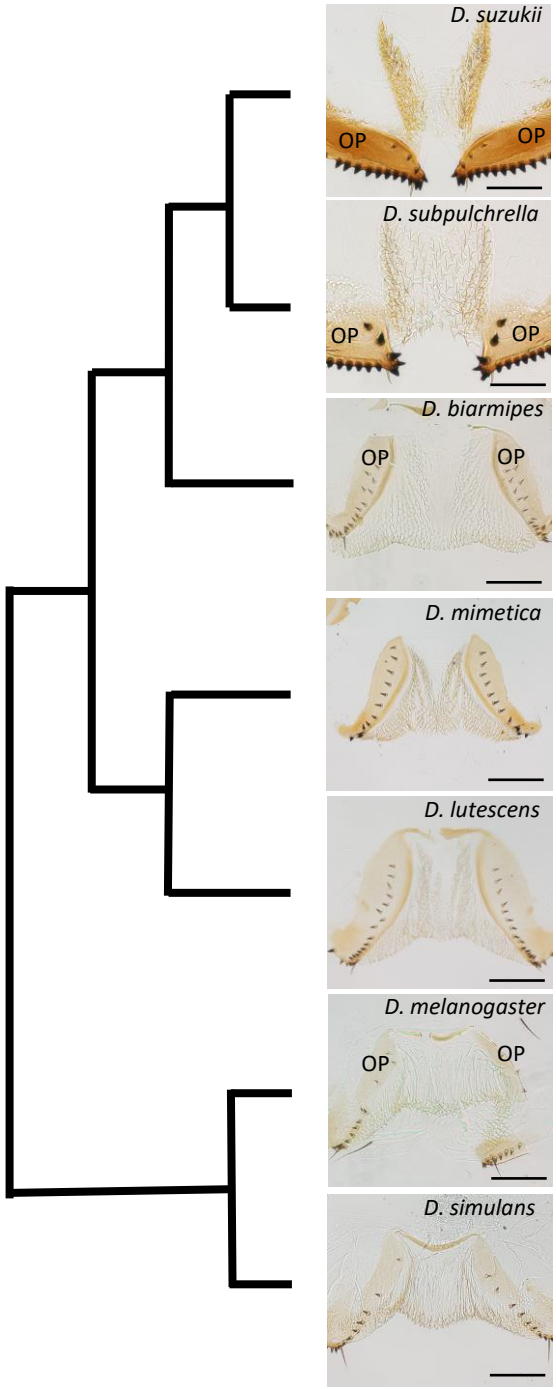

Fig. S2 Oviprovector scales in *Drosophila suzukii*, *D. subpulchrella*, and five other related species. (A) Phylogenetic relationship and the images of oviprovector scales from dissected ovipositors. Tree topology is based on Suvorov et al. [57] and Finet et al. [58]. Scale bar indicates 100 μm.

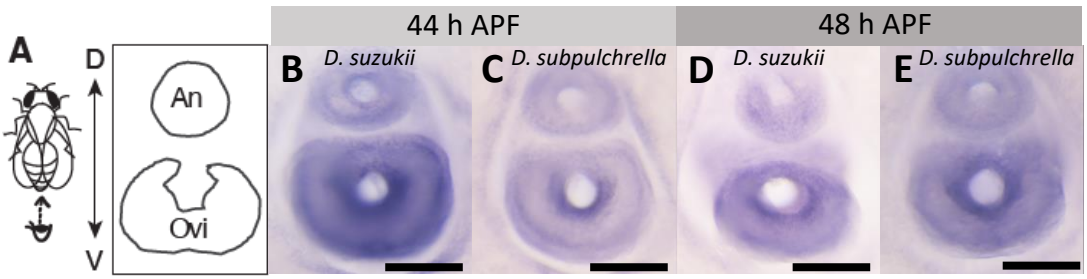

Fig. S3 *svb* expression in the developing ovipositor. (A) Schematic image of the developing female terminalia. Abbreviations indicate analia (An) and ovipositor (Ovi). (B) in situ hybridization of *svb* at 44 h APF in *D. suzukii*. (C) in situ hybridization of *svb* at 44 h APF in *D. subpulchrella*. (D) in situ hybridization of *svb* at 48 h APF in *D. suzukii*. (E) in situ hybridization of *svb* at 48 h APF in *D. subpulchrella*. Scale bars indicate 100 μm.

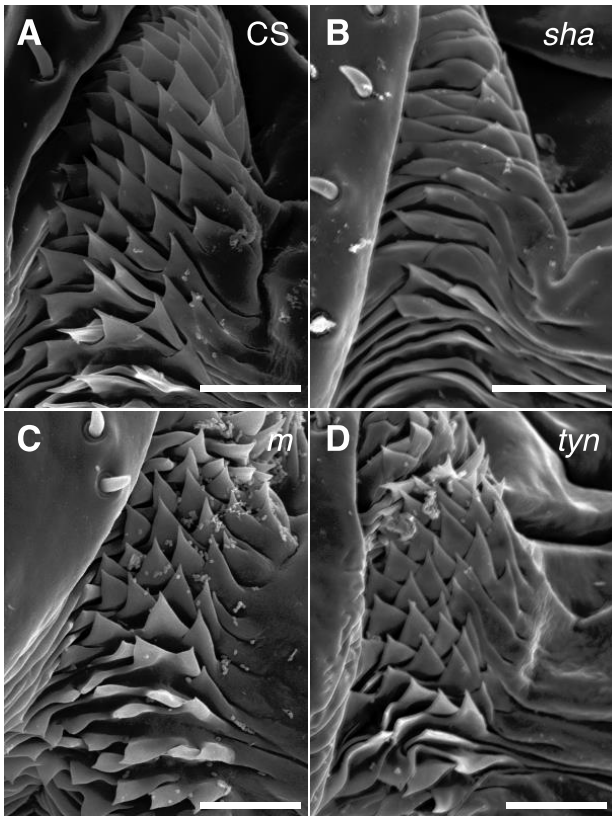

Fig. S4 Oviprovector scales of mutants of trichome-related genes in *D. melanogaster*. (A) Wildtype Canton-S. (B–C) Mutant phenotype of trichome patterning genes, *sha* (B), *m* (C) and *tyn* (D). Scale bar indicates 20 μm.