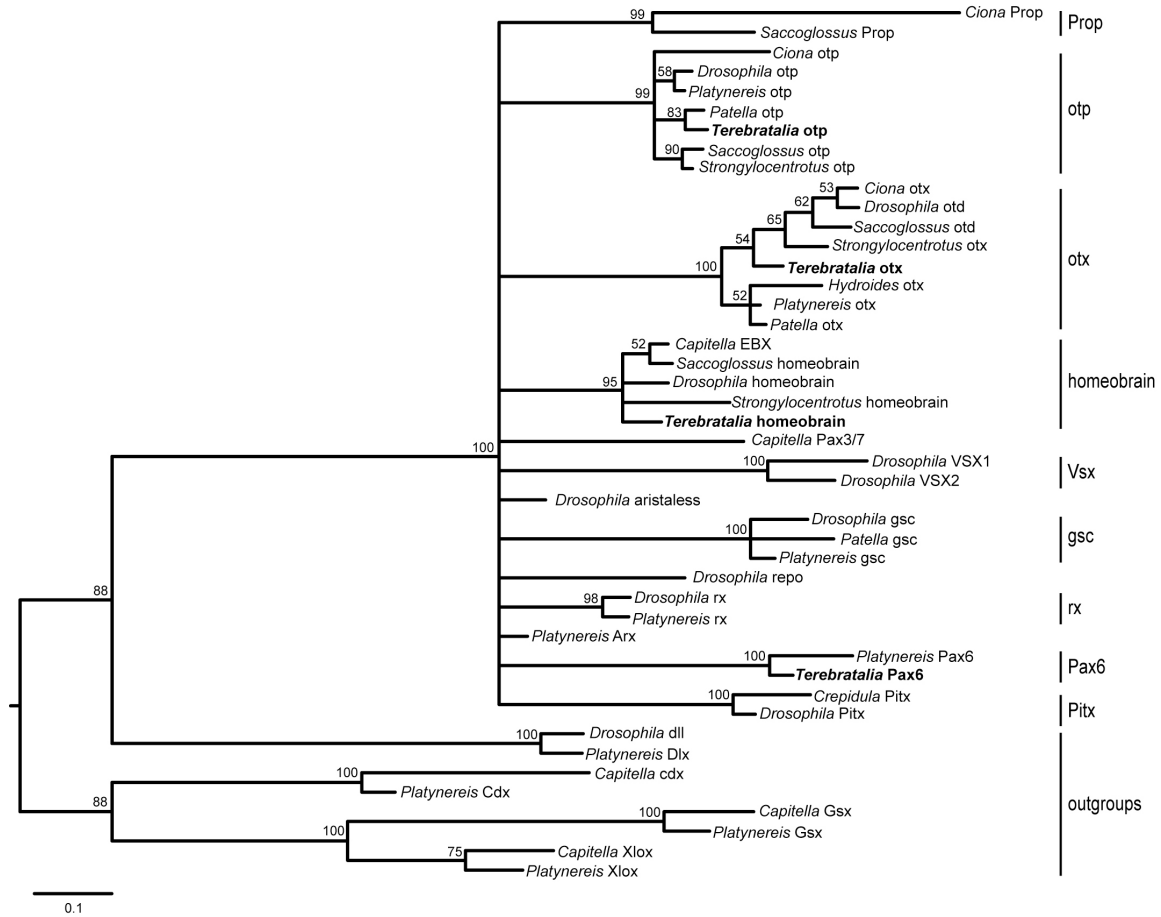


Paired class genes: *homeobrain* and *otp*



Additional File 1: Phylogenetic analysis of *Tt-hbn* and *Tt-otp*. Phylogram of *Tt-hbn*, *Tt-otp*, and related paired-class homeodomain proteins, supporting the orthology assignments of *Tt-hbn* and *Tt-otp*. Posterior probability for the *homeobrain* clade, including *Tt-hbn*, is 95 percent. Posterior probability for the *otp* clade, including *Tt-otp*, is 99 percent. The phylogram is a consensus of the last 2,000,000 generations from a Bayesian likelihood analysis with four independent runs of 10,000,000 generations each.