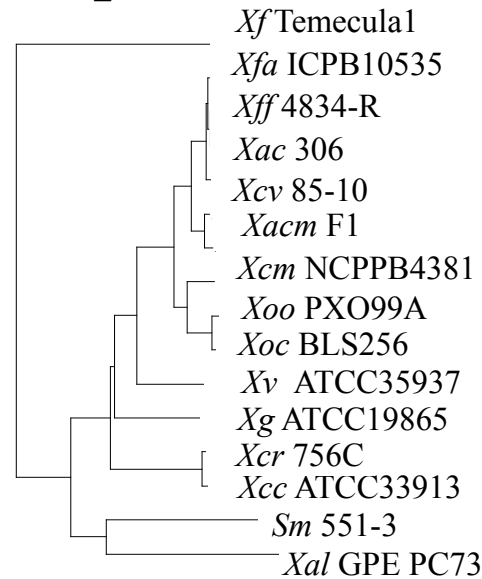
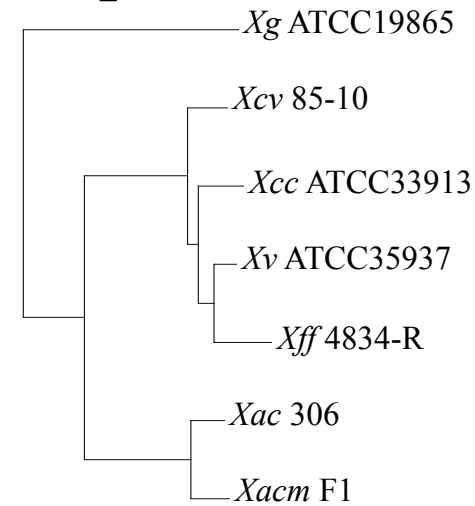


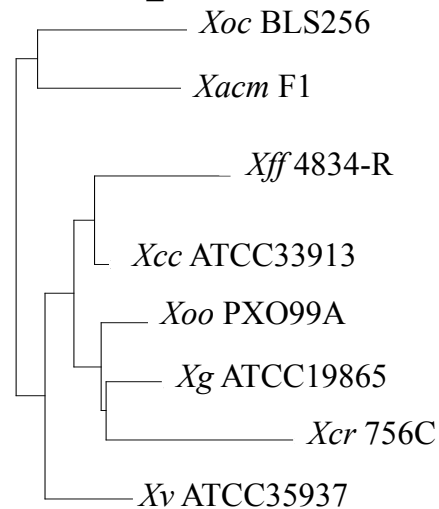
(a) XFF4834R_chr05500



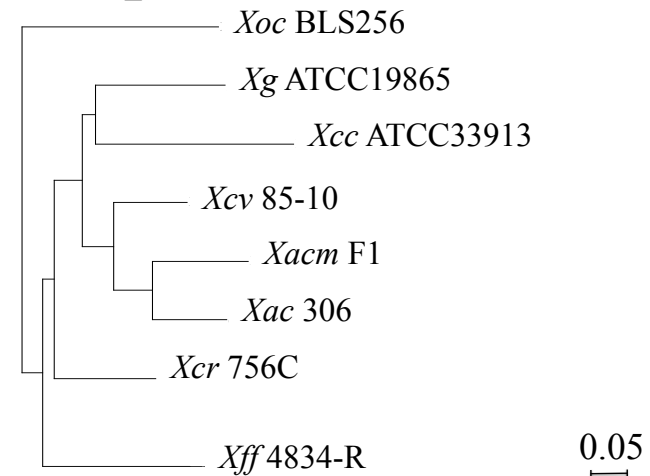
(b) XFF4834R_25070-25100



(c) XFF4834R_chr25180



(d) XFF4834R_chr33800



Additional file 8. Examples of phylogenetic trees (Neighbor-joining) obtained for gene families having a putative pseudogene in *Xff* 4834-R: (a) XFF4834R_chr05500 is a frameshifted gene for which two overlapping peptides could be predicted and phylogenetic tree has a topology similar to that of housekeeping genes, (b) XFF4834R_25070-25100 is disrupted by IS*XaxI* insertion (c) XFF4834R_chr25180 is a degenerated fragment of *pigH*, probably related to an integron insertion acquired from *Xcc* and (d) XFF4834R_chr33800 is a frameshifted gene for which two peptides could still be predicted.