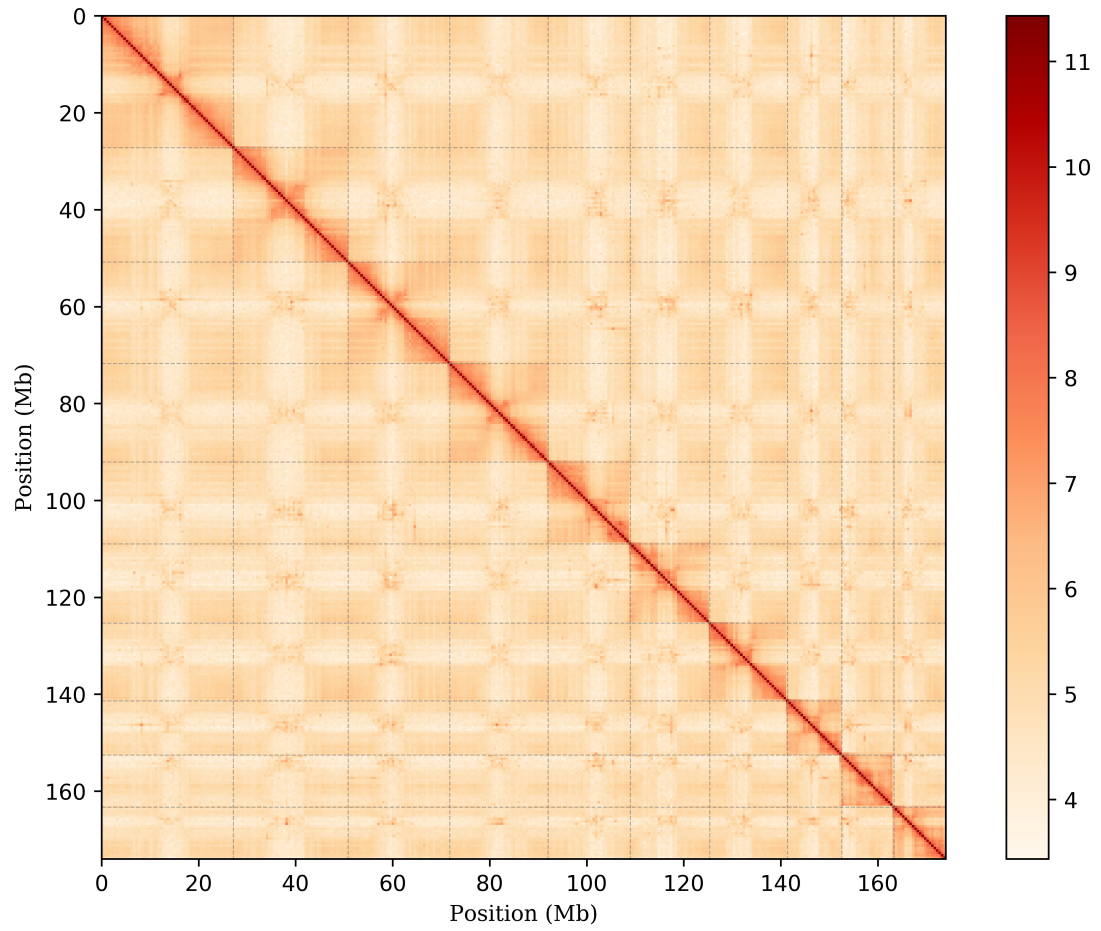
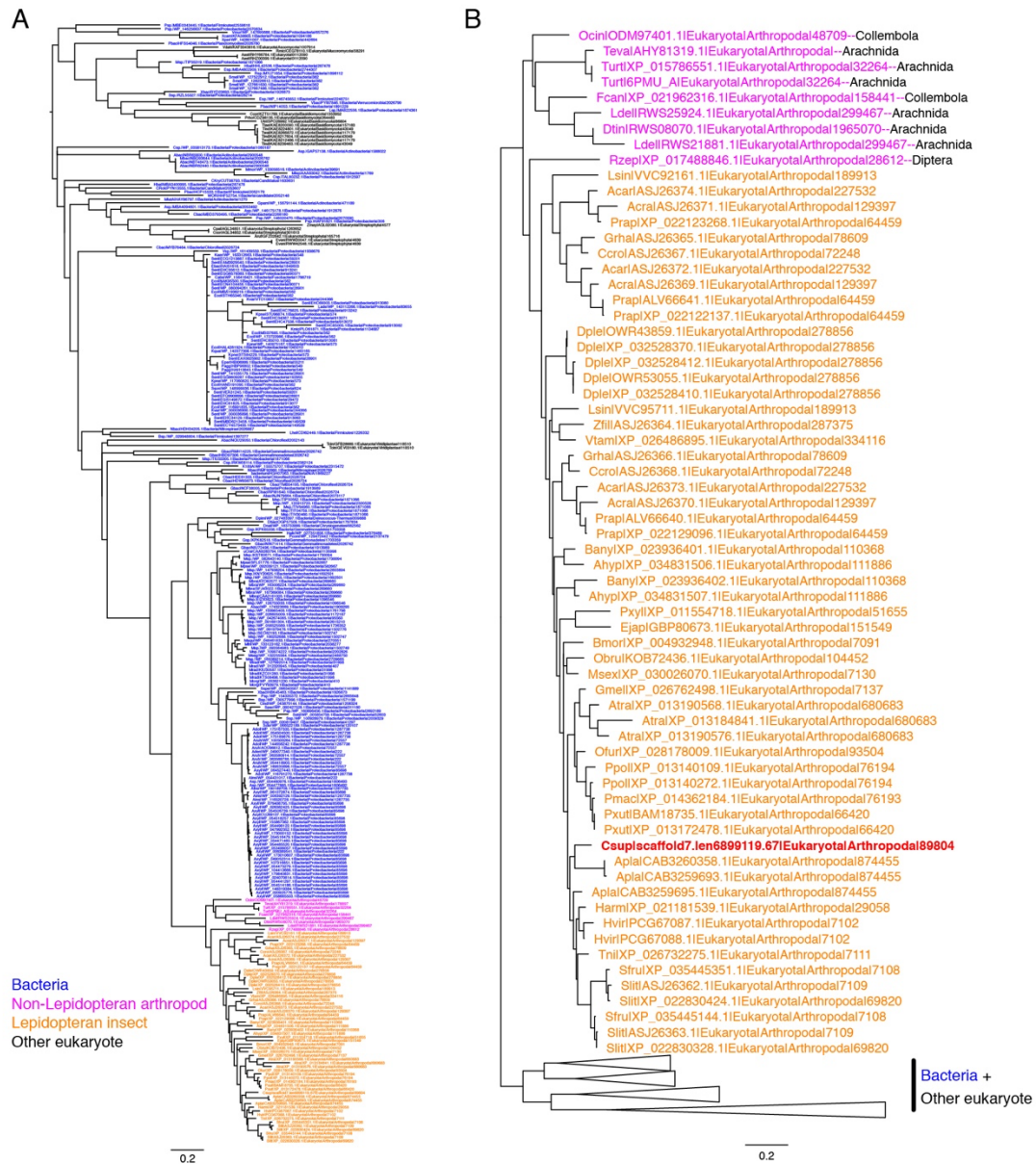




Supplementary Figure 1. Heatmap of the all-by-all interactions among 10 chromosomes of *C. chilonis*.



Supplementary Figure 2. Phylogenetic analysis of cysteine synthase genes, suggesting an ancient gene gain event in Lepidoptera. (A) Phylogenetic tree of cysteine synthase genes. Genes from bacteria, non-Lepidopteran arthropods, lepidopteran insects, and other eukaryote species are shown by blue, pink, orange, and black, respectively. In addition, the clade containing arthropods is shown in (B). The gene from *C. suppressalis* is shown in red.