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Fig 1. Distribution profiles of 17-mer analysis of Illumina reads.

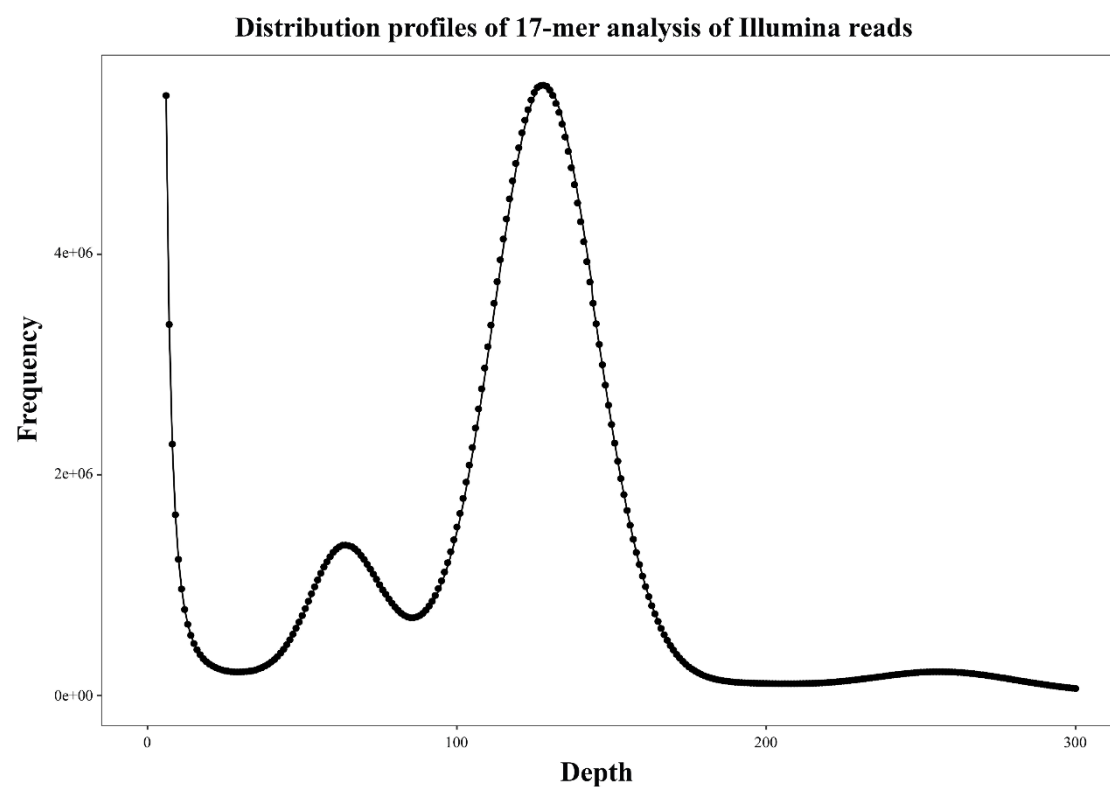


Fig 2. The Hi-C interactive heatmap of three assemblies. (A) Monoploid genome; (B) Haploid-1 genome; (C) Haploid-2 genome.

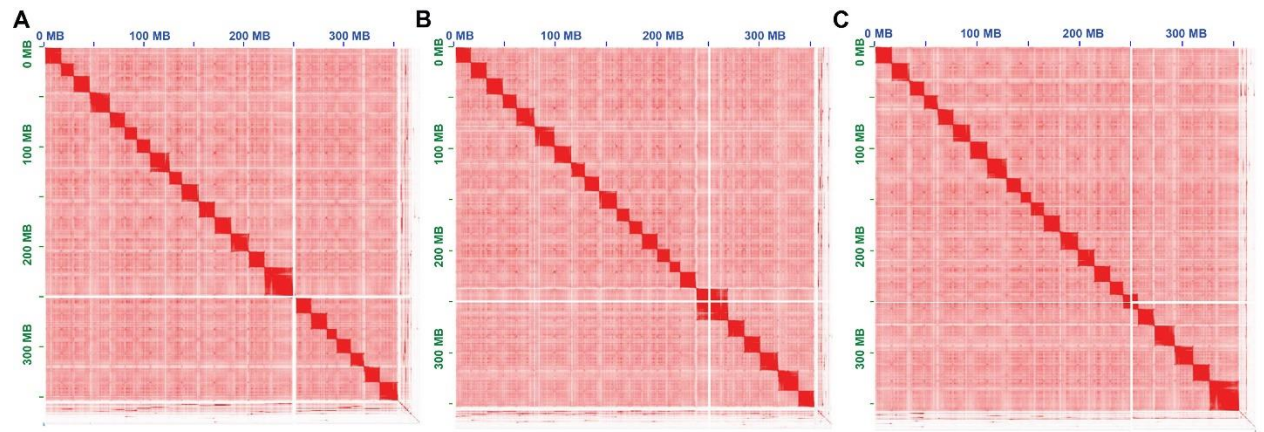


Figure S3. Circos diagram showing collinearity between two haploids' scaffolds. T1: Haploid-1 genome; T2: Haploid-2 genome; the link line between T1 and T2 represent the strong reciprocal collinearity based on the sliding window of 1 Kbp.

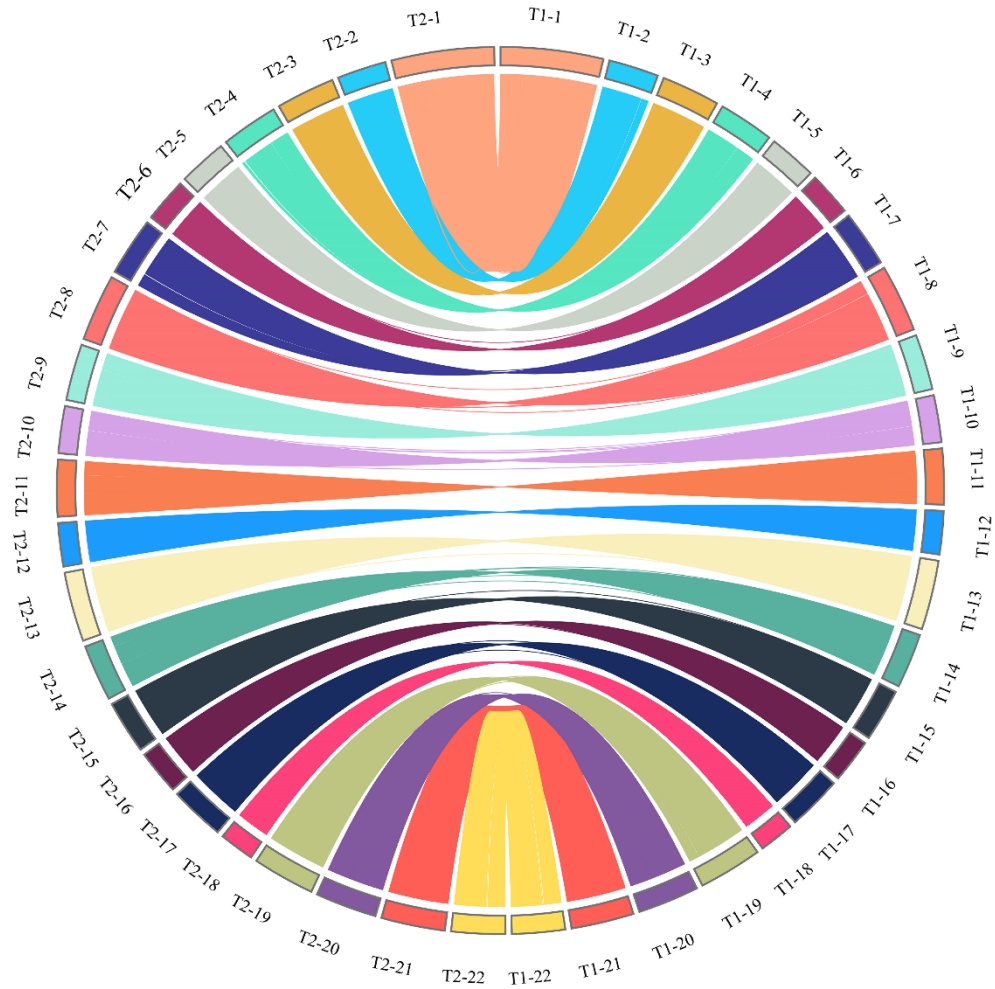


Figure S4. The bubble diagram of GO enrichment of expansion and contraction gene families in *T. ocellatus*; (A),(B),(C): GO enrichment of the expansion gene families; (D),(E),(F): GO enrichment of the contraction gene families.

