



Supplemental Figure S11. *TCAST* transposon-like element structure and genome distribution. **A)** Schematic representation of the *TCAST* transposon-like element with the indicated positions of a 367 bp long segment corresponding to the *TCAST* satDNA monomer (*TCAST*) and its 143 bp long truncated version (*TCAST****). The inverted orientation of the segments is indicated by the direction of the red arrows. The terminal inverted repeats (TIR) of the DNA transposon-like element are indicated by gray arrows. **B)** Distribution of the 57 copies of the *TCAST* transposon-like element annotated in the *T. castaneum* assembly TcasONT (upper panel) and 84 copies annotated in the *T. freemani* genome assembly Tfree1.0 (lower panel). **C)** Maximum likelihood tree of the individual copies of the *TCAST* transposon-like element detected in the *T. castaneum* assembly (red) and in the *T. freemani* assembly (blue). The tree was inferred in iTOL with nodal supports based on 100 bootstrap replicates (the values ≥ 80 are shown).