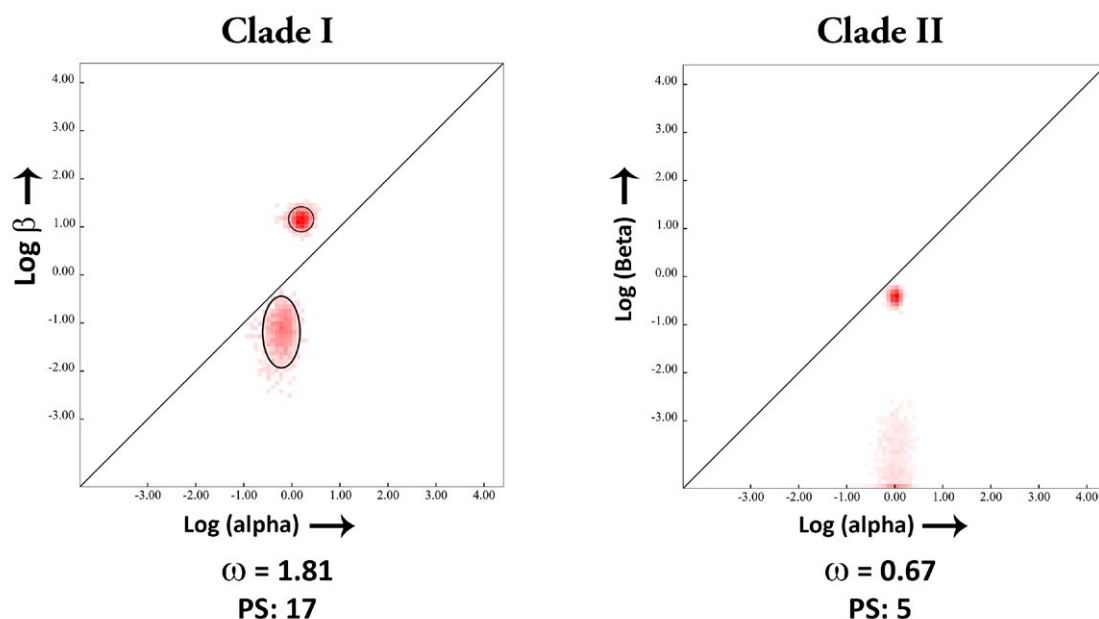


Supplementary Figure 1. Evolutionary fingerprint of *Trittame loki* major ICK toxin clades



Evolutionary Fingerprint: Estimates of the distribution of synonymous (α) and non-synonymous (β) substitution rates inferred for *Trittame loki* major ICK toxin clades are shown here. The ellipses reflect a Gaussian-approximated variance in each individual rate estimate, and coloured pixels show the density of the posterior sample of the distribution for a given rate. **The diagonal line represents the idealized neutral evolution regime ($\omega=1$), points above and below the line correspond to positive selection ($\omega>1$) and negative selection ($\omega<1$), respectively.** Site model 8 omega (ω) along with the total number of positively selected sites detected by its Bayes Empirical Bayes (BEB) approach are also indicated below.