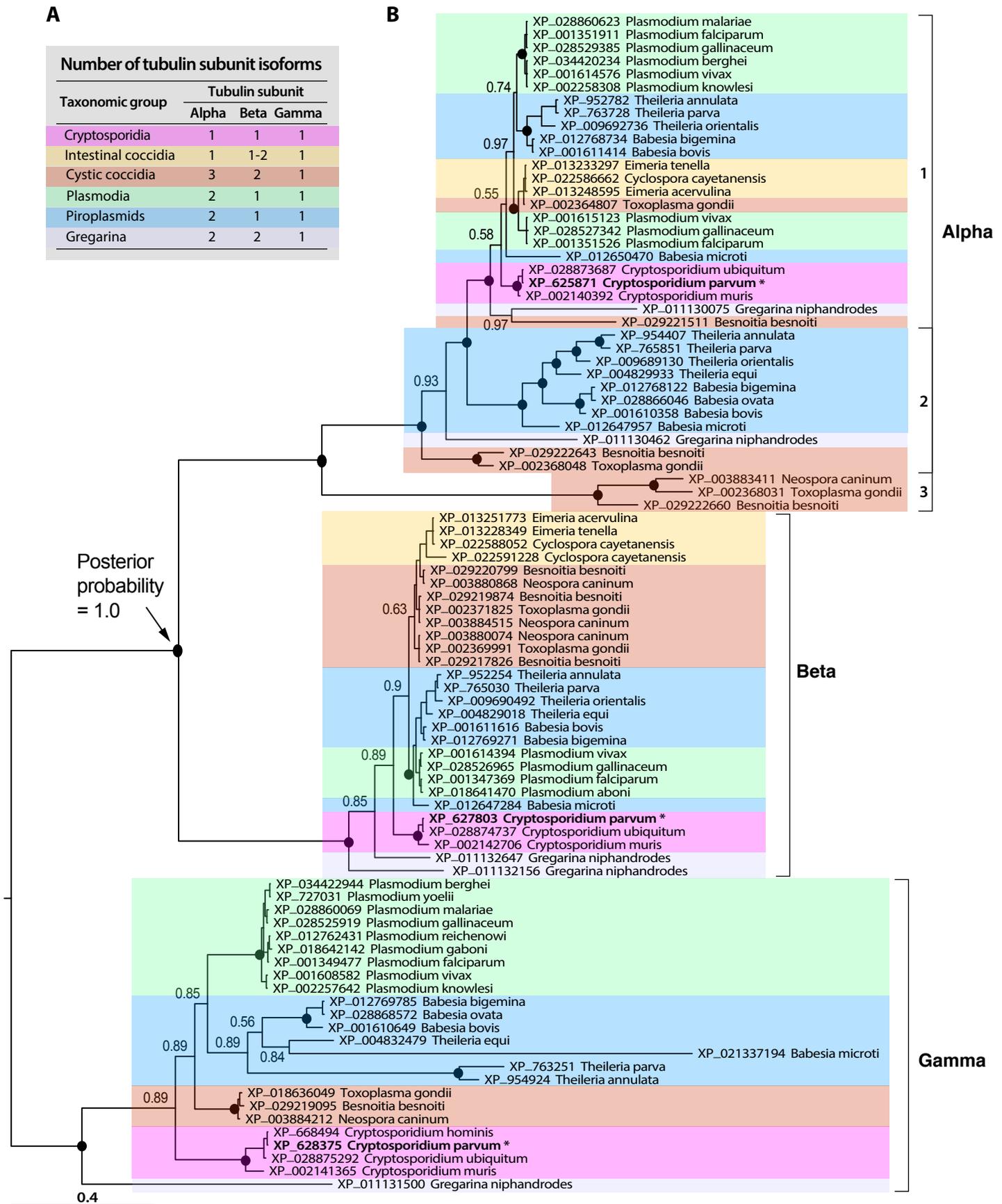


Figure S1. Orthologs and phylogenetic analysis of  $\alpha$ -,  $\beta$ - and  $\gamma$ -tubulin orthologs in the apicomplexan parasites



**A)** Number of isoforms of individual tubulin subunits identified from the genomes of major taxonomic groups of apicomplexans. **B)** Consensus tree inferred from  $\alpha$ -,  $\beta$ - and  $\gamma$ -tubulin proteins from representative apicomplexan species by Bayesian inference using a mixed model for amino acid substitution rates with the consideration of invariable sites and four rates of gamma-distribution across the sites (arithmetic mean of log likelihood = -15257.76). Tree was rooted using  $\gamma$ -Tubulin sequences as the outgroup. Posterior analysis showed that Jones amino acid substitution model was the most fit model with 100% posterior probability. Numbers at the major nodes indicate proportion support by posterior probability, in which nodes with 100% support were indicated by black round dots. Some species names are colored for better visualization and comparison. Bar indicates amino acid substitution rate.