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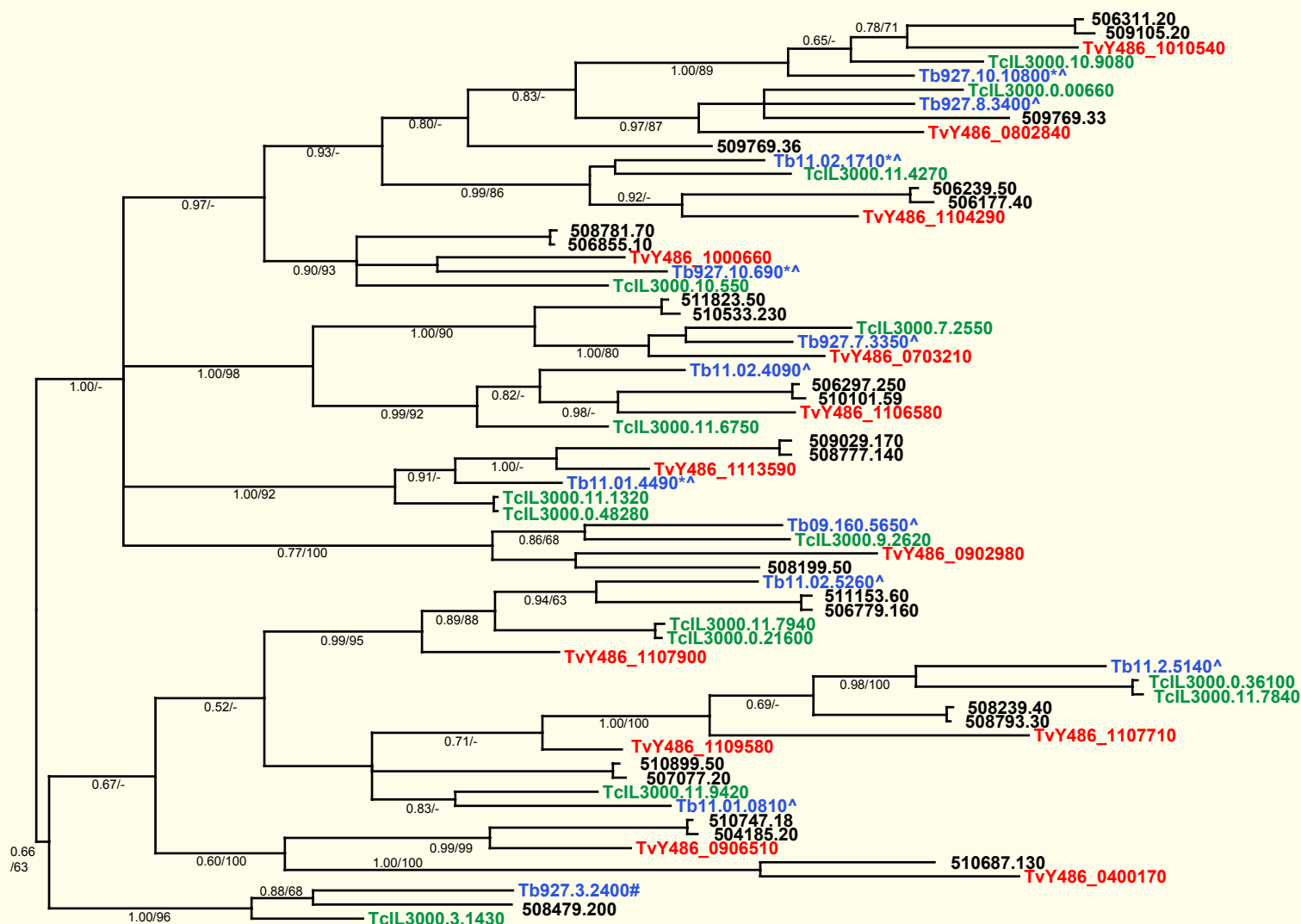
Jackson, AP et al. 2012. A cell-surface phylome for African trypanosomes, *manuscript submitted*.



Fam76: Zinc-finger proteins

Key: *Tb*927.
T. brucei
*Tv*Y486_
T. vivax
*Tc*IL3000.
T. congolense
500000.1
T. cruzi

0.5 sub/site



NOTES: Fam76 genes encode putative zinc-finger proteins that are conserved across *Trypanosoma*. Most proteins have predicted transmembrane domains (*T. brucei* orthologs are marked with an arrow ^). Two clades uppermost in the tree encode proteins with predicted signal peptides (*T. brucei* orthologs marked with an asterisk *). Tb927.3.2400 (marked with a crosshatch #) has a predicted GPI anchor and is weakly expressed in insect proventriculus (Savage et al. 2012 PLoS Negl Trop Dis 6(6): e1708).

The Bayesian phylogram was estimated from a multiple nucleotide sequence alignment of 211 characters, spanning the conserved zinc-finger binding domain of these diverse proteins. MrBayes was used under default settings. The tree is mid-point rooted. Selected nodes are supported by posterior probabilities and non-parametric bootstraps generated from a maximum likelihood analysis under a GTR+I model.