If you use these data, please cite:

Jackson, AP et al. 2012. A cell surface phylome for African Trypanosomes. *Manuscript submitted.*

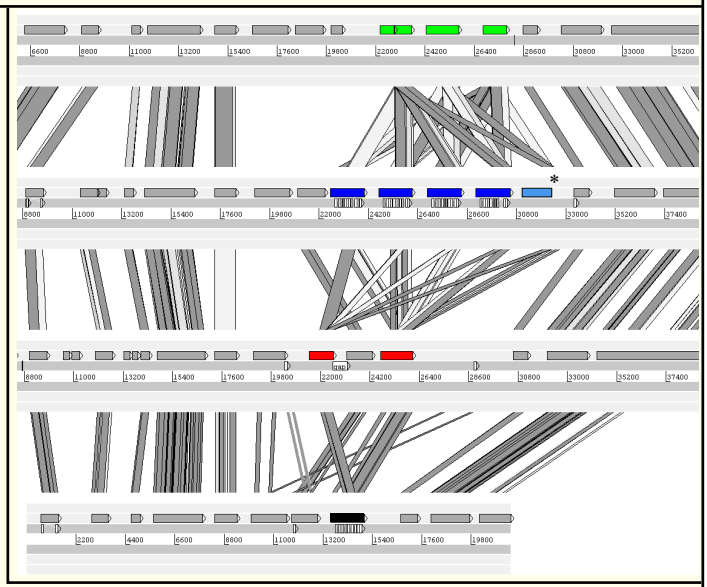
Fam81: **Hypothetical transporter protein**

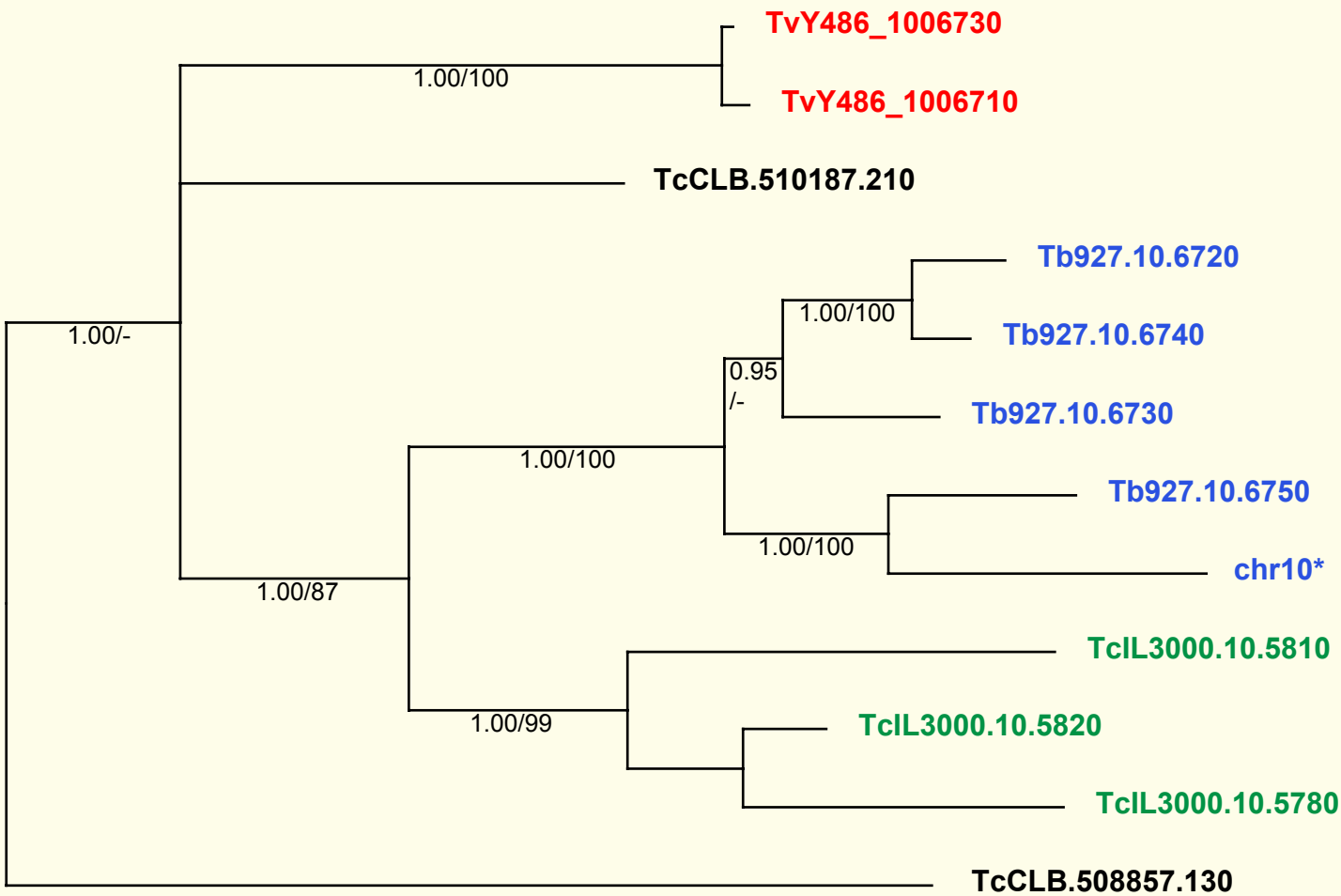
Key: Tb927. *T. brucei*

TvY486_ *T. vivax*

TcIL3000. *T. congolense*

TcCLB. *T. cruzi*





NOTES: **Fam81** comprises a family of genes found at a single, tandemly-arrayed locus on chromosome 10 and conserved across *Trypanosoma* (*inset showing an ACT comparison in which vertical grey bars represent significant BLASTp matches and Fam78 members are coloured*). All family members encode proteins with multiple predicted transmembrane domains; in addition these proteins contain PFAM domain PF04515, which corresponds to a plasma membrane choline transporter. * This sequence corresponds to a Fam81 pseudogene that is not annotated in the current *T. brucei* genome sequence, it occupies the 3'-most position in the tandem gene array.

The Bayesian phylogram was estimated from a multiple nucleotide sequence alignment of 1440 characters, using MrBayes under default settings. The tree is rooted with *T. cruzi* sequences. Selected nodes are supported by posterior probabilities and non-parametric bootstraps generated from a maximum likelihood analysis under a GTR+Γ model.