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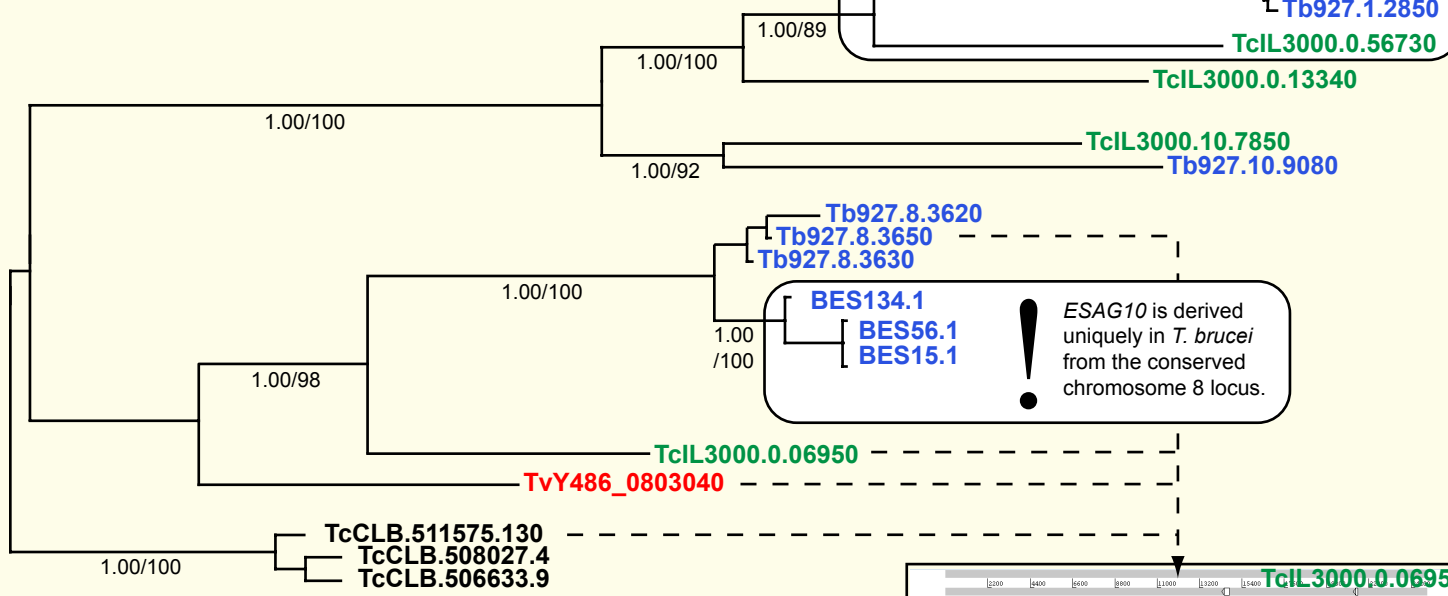
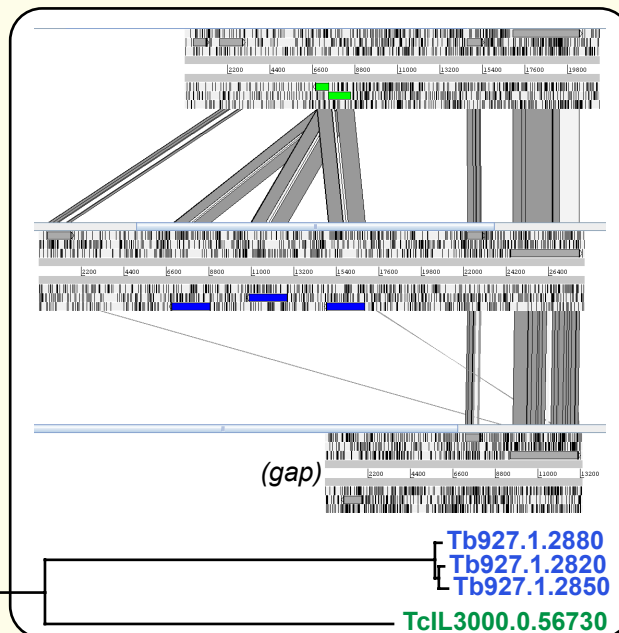
Jackson, AP et al. 2012. A cell surface phylome for African Trypanosomes. *Manuscript submitted.*

Fam57: Folate transporters



Biopterin transporter-like genes on chromosomes 1 and 10 are conserved in *T. brucei* and *T. congolense*, (inset, top right, showing an ACT comparison in which vertical grey bars represent significant BLASTp matches and Fam57 members are coloured).

These loci are absent from *T. vivax*, which indicates that 'biopterin transporter' genes have been lost from this species.

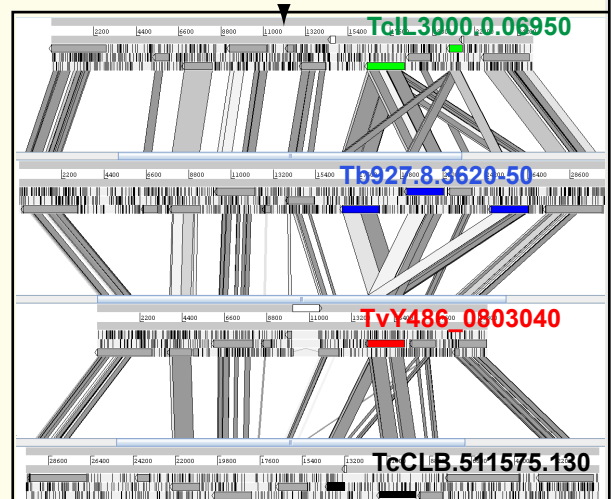


ESAG10 is derived uniquely in *T. brucei* from the conserved chromosome 8 locus.

Key: Tb927.
T. brucei
TvY486_
T. vivax
TcIL3000.
T. congolense
TcCLB.
T. cruzi



The folate transporter-like locus on chromosome 8 is conserved in all species, with evidence that a tandem gene array is present in multiple cases (inset, bottom right).



NOTES: Fam57 includes folate and biopterin transporters conserved across *Trypanosoma* spp., as well as ESAG10, which is unique to the bloodstream expression site of *T. brucei*.

The Bayesian phylogram was estimated from a multiple protein sequence alignment of 604 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 using an LG model with rate heterogeneity.