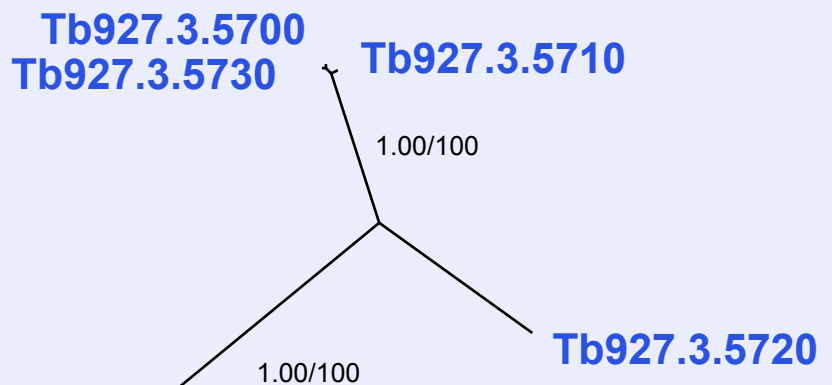


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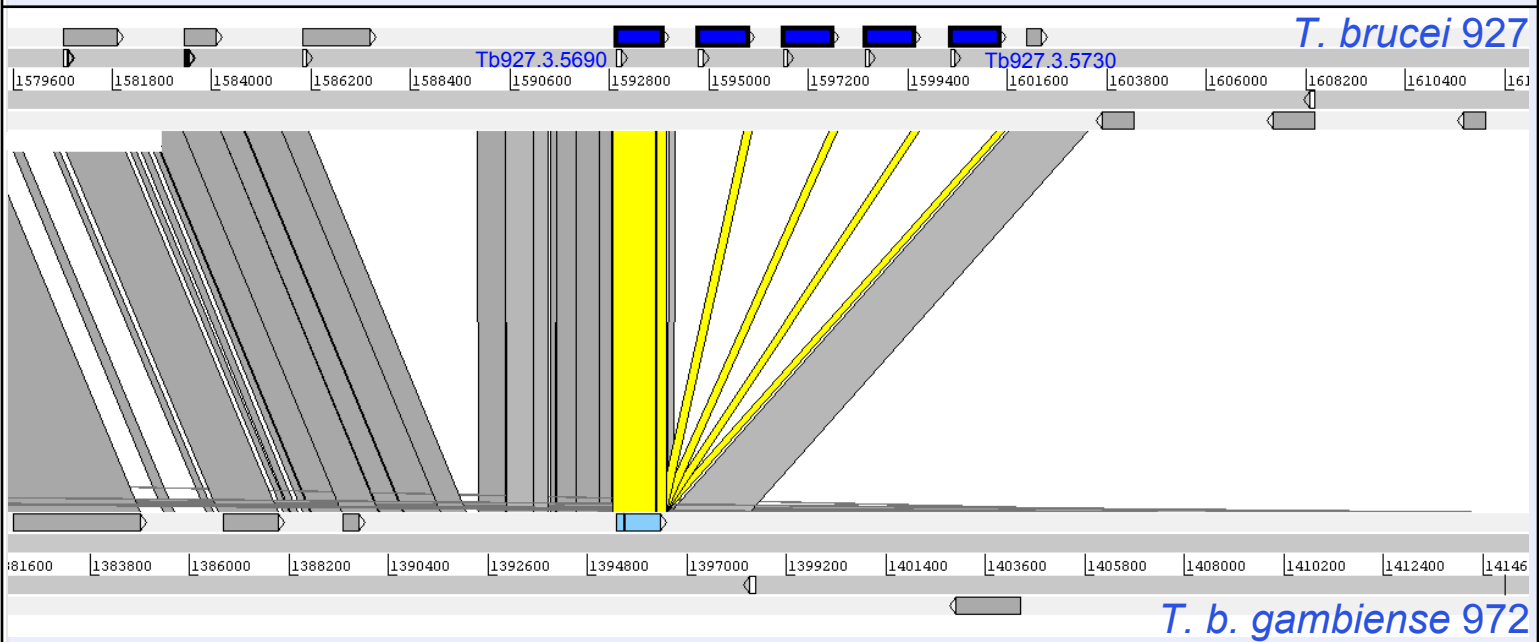
Jackson, AP et al. 2012. A cell surface phylome for African Trypanosomes. *Manuscript submitted.*

## Fam6: Putative secreted protein



Tb927.3.5690

! Fam6 comprises five tandem gene copies in *T. brucei* 927. The 5'-most gene copy (Tb927.3.5960) is divergent from the remaining members, sharing ~60% amino acid identity. This gene copy has an orthologous sequence at a conserved position in *T. b. gambiense* DAL972 (below, ACT comparison of *T. brucei* and *T. b. gambiense*; Fam6 genes are shaded blue). There are no orthologs to the remaining gene copies.



**NOTES:** Fam6 gene copies are located in a tandem gene array at the right-hand core-subtelomere junction of chromosome 3. All members have predicted signal peptides.

The Bayesian phylogram was estimated from a multiple nucleotide sequence alignment of 1071bp, using MrBayes with a GTR+ $\Gamma$  model and default settings. The tree is unrooted. Selected nodes are supported by posterior probabilities and non-parametric bootstraps generated from a maximum likelihood analysis under a GTR+ $\Gamma$  model.