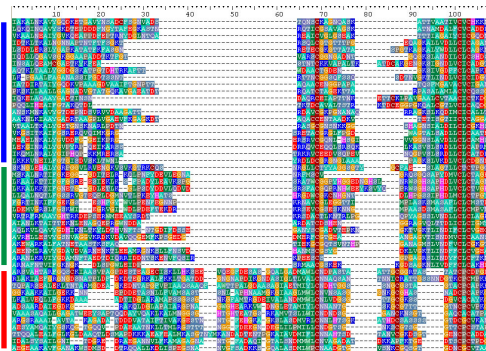


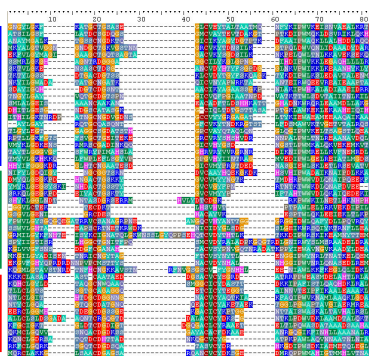
If you use this data, please cite:

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

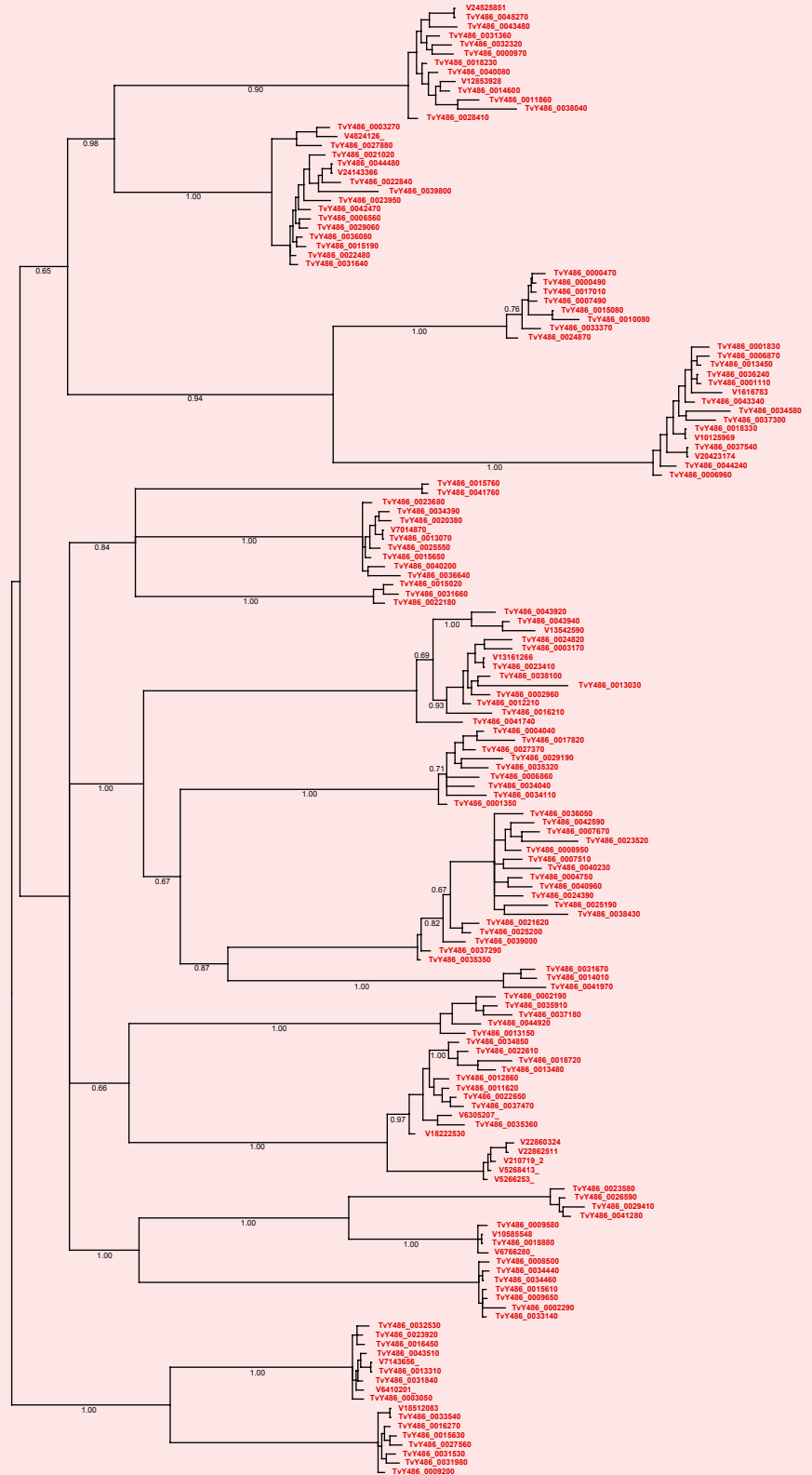
Fam24: bVSG-like protein



Conserved amino acid motifs found in b-type VSG protein sequences across the African trypanosomes. The figures above and below show b-VSG and related proteins from *T. brucei* (blue), from *T. congolense* (green) and Fam24 proteins from *T. vivax* (red) in alignment. The upper panel shows a CxC motif that is diagnostic of b-type VSG proteins, while the lower panel illustrates conserved glycine, cysteine and tryptophan residues towards the C-terminus.



0.5 rep/site



NOTES: Fam24 consists of gene sequences predicted to encode proteins with significant similarity to b-type VSG in *T. brucei*. All gene products have predicted signal peptides and conserved amino acid motifs characteristic of the b-type VSG.

The Bayesian phylogram was estimated from a multiple protein sequence alignment of 161 taxa and 550 characters, which represents all full-length family members. A further 52 partial gene sequences (curtailed by sequence gaps) also belong to this family. A WAG+ Γ model was applied using MrBayes was under default settings. The tree is mid-point rooted. Selected nodes are supported by posterior probabilities.