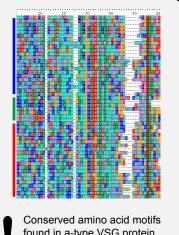
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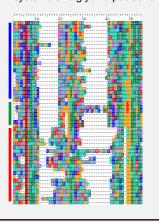
Jackson, AP et al. 2012. A cell surface phylome for African Trypanosomes. *Manuscript submitted*.



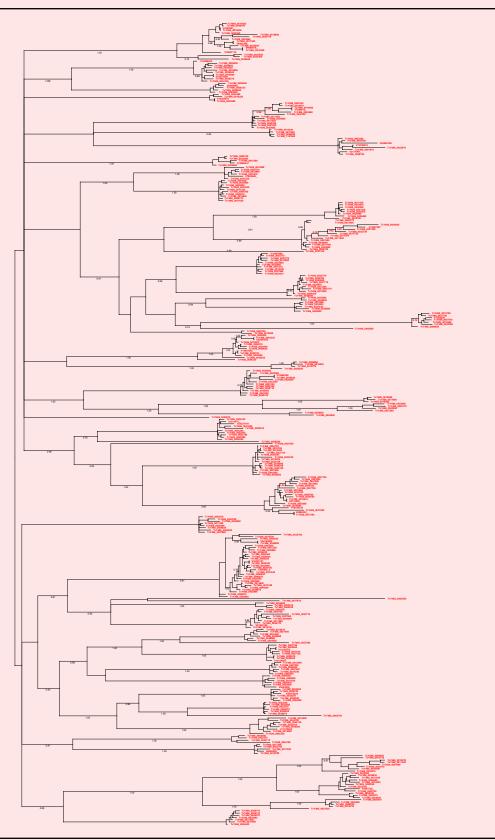
## Fam23: aVSG-like protein



found in a-type VSG protein sequences across the African trypanosomes. The figures above and below show a-VSG from *T. brucei* (blue), transferrin receptor-like proteins from *T. brucei* and *T. congolense* (green) and Fam23 proteins from *T. vivax* (red) in alignment. The upper panel shows a GxxDx motif, while the lower panel illustrates conserved cysteine and glycine positions.



0.5 rep/site



NOTES: Fam23 consists of gene sequences predicted to encode proteins with significant similarity to a-type VSG in *T. brucei*. All gene products have predicted signal peptides and conserved amino acid motifs characetristic of the a-type VSG.

The Bayesian phylogram was estimated from a multiple protein sequence alignment of 363 taxa and 582 characters, which represents all full-length family members. A further 112 partial gene sequences (curtailed by sequence gaps) also belong to this family. A WAG+F model was applied using MrBayes was under default settings. The tree is mid-point rooted. Selected nodes are supported by posterior probabilities.