

SUPPLEMENTARY FIG. S1. Conservation and predicted secondary structure of the N-terminal extension of Tb1-C-Grx1. (A) Multiple sequence alignment of the N-terminal stretch in trypanosomatid proteins identified by homology search with PSI-BLAST (www.ebi.ac.uk/Tools/sss/psiblast) using the sequence of Tb1-C-Grx1 as the template. The 13 sequences retrieved were aligned with BioEdit (www.mbio.ncsu.edu/bioedit/bioedit.html), and are from top to bottom: T. brucei brucei strain 427 CAF02300.1, T. b. gambiense CBH14109.1, T. brucei brucei strain 927 XP_803662.1, T. brucei congolense CCD12136.1, T. cruzi strain Silvio×10/1 EFZ28890.1, T. cruzi strain CL-Brener XP_818148.1, T. cruzi strain CL-Brener XP_807837.1, Leishmania major XP_003721531.1, L. donovani CBZ31098.1, L. infantum XP_001462624.1, L. mexicana CBZ22994.1, L. braziliensis XP_001561455.1, and T. vivax XP_001561455.1. (B) Residue conservation is represented as a logotype using the alignment data above and the WebLogo 3.0 server (http:// weblogo.threeplusone.com). Green is for polar (G, S, T, Y, and C), purple for neutral (Q and N), blue for basic (K, R, and H), red for acidic (D and E), and black for hydrophobic residues (A, V, L, I, P, W, F, and M). (C) Qualitative predictions of disordered (red) and putative secondary structures (green) of the most conserved part of the sequence (blue line). The scheme was prepared based on the results obtained from several Web-based servers (DISEMBL: http://dis .embl.de; GlobPlot2: http://globplot.embl.de; AGADIR: http://agadir.crg.es; PSIPRED: http://bioinf.cs.ucl.ac.uk/ psipred; PEP-FOLD: http://bioserv.rpbs.univ-paris-diderot .fr/PEP-FOLD; Parcoil2: http://groups.csail.mit.edu/cb/ paircoil2; and COILS: www.ch.embnet.org/software/COILS_ form.html).