



Figure S1

A. Chromosomal organization of the expanded *fam-d* multigene family in the internal region of chromosome 9. The *PcAS*, *PyYM* and *PbA* genomes contain 21, 5 and 1 copy (PBANKA_091920), respectively (shown in blue) (related to Table 2)

B. An ACT (Artemis Comparison Tool) comparison of syntenic centromeric regions (green) of chromosome 7 of *PbA* and *PcAS* and chromosome 6 of *P. falciparum* 3D7, showing size, location and GC-content. Grey bars: forward/reverse DNA strands. The red lines represent sequence similarity (tBLASTx)(related to Table 1).

C. Structural organization of several types of full-length *pir* genes in *PbA* (*birs*), *PcAS* (*cirs*) and *PyYM* (*yirs*). Exons: yellow boxes; with introns: linking lines. The IDs shown represent a single example.