

Supplementary tables

Table S1. Key proteins extracted from PPI network and classified by gene ontology

Membrane		Pathogenesis		Host cell		Extracellular region		Adhesion		Cell surface		Locomotion		Transport		Cell communication	
Gene name	Degree	Gene name	Degree	Gene name	Degree	Gene name	Degree	Gene name	Degree	Gene name	Degree	Gene name	Degree	Gene name	Degree	Gene name	Degree
PF11475w (MSP1)	24	PF11475w (MSP1)	24	PF11_0507	16	PF14_0678	16	PF11_0507	16	MAL13P1.269	6	PF13_0197	9	MAL13P1.206	9	MAL7P1.109	5
PF0885c	14	PF11_0507	16	PF14_0678	16	PFB0340c	12	PFC0120w	7	PF10_0155	5	PF13_0198	7	PF14_0344	8		
PFA0430c	12	PF07_0128	7	PF0885c	12	PFA0110w	10	PFA0125c	6	PF10_0348	5	PF10_0345	6	PFB0640c	8		
MAL7P1.7	9	PFA0125c	6	PFB0340c	12	PF14_0344	8	PFB0300c	6			PFA0125c	6	PFE0065w	8		
PF10_0242	9	PF11830c	5	PFA0110w	10	PFE0070w	6	PF10_0348	5								
MAL13P1.206	9	MAL13P1.60	5	PFE0065w	8	PF14_0442	5	PF11830c	5								
PF14_0201	9	PF10_0348	5	PFB0640c	8			MAL13P1.6	5								
PF13_0197	9			PF14_0344	8												
PFA0410w	8			PFC0120w	7												
PF07_0128	7			PF11830c	5												
PF13_0198	7																
PFB0300c	6																
PFA0125c	6																
PF10_0143	6																
PF11_0127	6																
PFC1045c	5																
MAL13P1.60	5																
PF11_0341	5																
MAL13P1.193	5																
PF10_0348	5																
PF08_0127	5																
MAL8P1.95	5																
PF14_0731	5																
PF0545w	5																
PF14_0315	5																
PF10_0146	5																
PF11_0165	5																
PFL1395c	5																
PF10_0155	5																

Table S2. Correlation between the novel Malaria Pf/Pv Ab RDT and SD BioLine Malaria P.f/P.v

Malaria positives (n=102)			SD BioLine Malaria P.f/P.v			
			Pf+/Pv+	Pf+	Pv+	Negative
The novel Malaria Pf/Pv		Pf+/Pv+	21		7	
		Pf+		18		
		Pv+			51	3
		Negative				2
Total			102			
Correlation Ratio*			90.2% (92/102)			

* Correlation Ratio = number of same results / number of total test

Supplementary figure

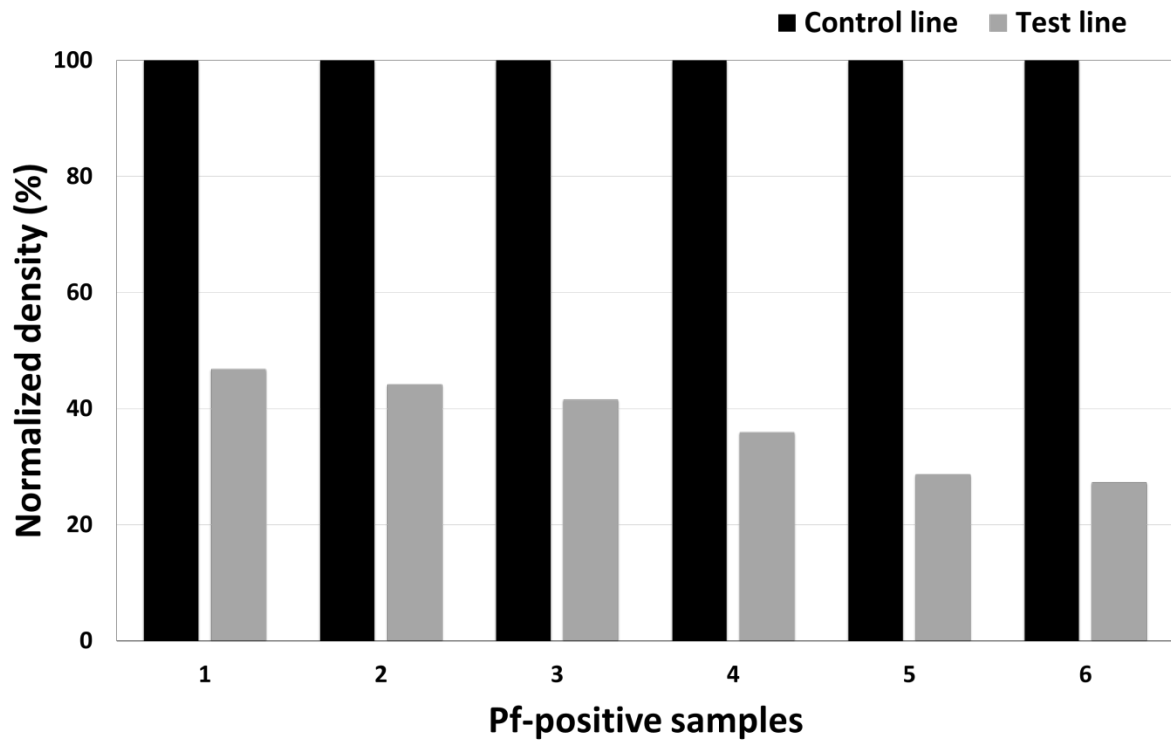


Figure S1. The color intensity of the bands was measured to judge the positivity of Pf-samples (ImageJ 1.49). Result only represents the positivity of samples but not the relative quantity of antigens in the samples.