



Suppl. Fig. 1

Table S1. Peptide sequence information of overlapped 18-mers from the PvMSP8 C terminus

No. peptide	Peptide sequence	Peptide location in full length of PvMSP8 (Sal-1)
1	EKINEHFIKDDSFDSLSDY	258–275
2	DDSFDSLSDYLADFELINY	267–284
3	LADFELINYIIMHETSEL	276–293
4	IIMHETSELIDELLNIE	285–302
5	IDELLNIESMNFRLSE	294–311
6	SMNFRLSEGSLEKMKVSA	303–320
7	SLEKMKVSAESGMNLNCK	312–329
8	ESGMNLNCKMKEDIIHLL	321–338
9	MKEDIIHLLKSSAKFFK	330–347
10	KKSSAKFFKIEIDRKTGM	339–356
11	IEIDRKTGMIPVQATHK	348–365
12	IYPVQATHKGANMKQLAL	357–374
13	GANMKQLALSFLQKNNVC	366–383
14	SFLQKNNVCEHKKCPLNS	375–392
15	EHKKCPLNSNCYVINGEE	384–401
16	NCYVINGEEVCRCLPGFS	393–410
17	VCRCLPGFSDVKIDNVMN	402–419
18	DVKIDNVMNCVRDDTLDC	411–428
19	CVRDDTLDCSNNNGGCDV	420–437
20	SNNNGGCDVNATCTLIDK	429–446
21	NATCTLIDKKIVCECKDN	438–455
22	KIVCECKDNFEGDGIYCS	447–464

Table S2. Prevalence (% positive), 95% confidence intervals, and mean fluorescence intensity of IgG responses to rPvMSP8 in patient and healthy individual serum samples

Protein	No. of patients samples (<i>n</i>)			95%CI (%)	MFI	No. of healthy samples (<i>n</i>)			95% CI (%)	MFI	<i>P</i> value
	Positive	Negative	Total (%)			Positive	Negative	Total (%)			
MSP8	82	30	112 (73.2)	64.3-80.6	17,867	3	77	80(3.8)	89.6-98.7	1,363	< 0.0001

Abbreviations: MFI, mean fluorescence intensity; CI, confidence interval.

Table S3. Prevalence, 95% confidence intervals, and normalized mean fluorescence intensity of IgG responses to rPvMSP8 in 1-month follow-up and archival sera samples

Samples (<i>n</i>)	No. of samples		Sensitivity (%)	Specificity (%)	95% CI (%)	Normalized MFI \pm SD ^a	<i>P</i> value ^b
	Positive	Negative					
Acute patients (25)	21	4	84.0		65.4-93.6	7.46 \pm 1.19	< 0.0001
Day 7 (25)	25	0	100.0		86.7-100.0	8.91 \pm 1.31	< 0.0001
Day 14 (25)	24	1	96.0		80.5-99.3	8.00 \pm 1.08	< 0.0001
Day 21 (25)	23	2	92.0		75.0-97.8	6.84 \pm 1.08	< 0.0001
Day 28 (25)	23	2	92.0		75.0-97.8	5.99 \pm 0.94	< 0.0001
5 year (30)	17	13	56.7		39.2-72.6	1.582 \pm 0.21	< 0.0001
10 year (30)	10	20	33.3		19.2-51.2	0.86 \pm 0.08	0.002
30 year (30)	7	23	23.3		11.8-40.9	0.70 \pm 0.07	0.144
Healthy (30)	0	30		100.0	88.7-100.0	0.58 \pm 0.04	

Abbreviations: CI, confidence interval; SD, standard deviation.

^a Normalized MFI, fluorescence intensities divided by each cutoff value (2 standard deviations above the mean fluorescence intensity of the malaria-naive samples).

^b Differences in the total IgG level for each antigen between vivax malaria patients and healthy individuals were calculated with the Mann-Whitney *U* test. A *P* value of ≤ 0.05 was considered statistically significant.