

**Additional file 1. Accuracy of quantitative Real-Time PCR assay to estimate the copy number variation in genes of *Plasmodium falciparum* and *Plasmodium vivax*.**

Sample ID	Target Name	RQ	RQ Min <sup>1</sup>	RQ Max <sup>1</sup>	RQ Mean <sup>2</sup>	RQ SD <sup>2</sup>	CV (%)
1	<i>pfmdr1</i>	1.18	0.88	1.59	1.13	0.230	20.3
		0.88	0.80	1.04			
		1.34	1.08	1.64			
2	<i>pfmdr1</i>	1.00	0.65	1.54	0.92	0.074	8.1
		0.86	0.44	1.66			
		0.90	0.60	1.40			
3	<i>pfmdr1</i>	1.10	0.70	1.60	1.01	0.235	23.3
		0.74	0.49	1.13			
		1.18	0.97	1.44			
4	<i>pfmdr1</i>	1.07	0.79	1.45	0.80	0.242	30.0
		0.74	0.57	0.94			
		0.60	0.42	0.87			
5	<i>pfmdr1</i>	1.07	0.57	2.00	1.04	0.091	8.7
		1.12	0.88	1.42			
		0.94	0.66	1.35			
6	<i>pfmdr1</i>	0.90	0.72	1.12	0.77	0.115	15.0
		0.72	0.59	0.88			
		0.69	0.44	1.06			
7	<i>pvmdr1</i>	2.14	1.77	2.59	1.96	0.242	12.3
		1.69	1.32	2.16			
		2.06	1.73	2.44			
8	<i>pvmdr1</i>	2.70	2.40	3.10	2.56	0.404	15.8
		2.10	1.60	2.90			
		2.87	2.47	3.33			
9	<i>pvmdr1</i>	1.01	0.72	1.42	1.44	0.483	33.4
		1.96	1.32	2.92			
		1.75	1.30	2.36			
		1.05	0.45	2.45			

		1.56	1.27	1.92			
10	<i>pvmdr1</i>	1.41	1.11	1.79	1.60	0.213	13.3
		1.83	1.65	2.03			
		3.14	2.20	4.48			
11	<i>pfmdr1</i>	2.87	2.22	3.71	2.77	0.427	15.4
(W2mef)		2.30	1.90	2.60			
Sample ID	Target Name	RQ	SD	RQ Mean <sup>2</sup>	RQ SD <sup>2</sup>	CV (%)	
		1.35	0.058				
12	<i>pfgchl</i>	1.33	0.001	1.22	0.204	16.7	
		0.99	0.017				
		1.35	0.016				
13	<i>pfgchl</i>	1.79	0.028	1.38	0.386	27.9	
		1.02	0.011				
		1.30	0.010				
		1.05	0.019				
14	<i>pfgchl</i>	1.07	0.006	1.09	0.126	11.6	
		1.05	0.008				
		0.97	0.014				
		0.96	0.012				
15	<i>pfgchl</i>	1.05	0.01	1.02	0.046	4.5	
(W2mef)		1.03	0.01				

RQ, relative quantification; Min, minimum; Max, maximum; SD, standard deviation; CV, coefficient of variation

<sup>1</sup> Each experiment was performed in triplicate and the fold-difference in gene copy number of the sample relative to the calibrator (sample with one copy of the gene) was expressed as a range of relative quantification (RQ min and RQ max).

<sup>2</sup> Mean and standard deviation of the gene copy number estimates (RQ) considering all experiments performed to each sample.