

Additional File 3.

Mean  $C_t$  values and standard deviations for DNA standards based on qPCR assays in ascending order by template copy number

Table A. *P. falciparum* 3D7 DNA standards

qPCR assay	Mean $C_t$ values $\pm$ standard deviations for $10^x$ pg of 3D7 DNA							
	-4	-3	-2	-1	0	1	2	3
<i>crt</i>	<i>negative</i>	<i>negative</i>	<i>negative</i>	<i>negative</i>	$34.7 \pm 0.5$	$31.0 \pm 0.1$	$27.7 \pm 0.0$	$24.2 \pm 0.1$
<i>ldh(a)</i>	<i>negative</i>	<i>negative</i>	<i>negative</i>	$37.4 \pm 0.1$	$34.9 \pm 1.2$	$30.7 \pm 0.4$	$27.0 \pm 0.0$	$24.0 \pm 0.4$
<i>ldh(b)</i>	<i>negative</i>	<i>negative</i>	<i>negative</i>	$38.0 \pm 0.8$	$34.7 \pm 0.2$	$30.3 \pm 0.1$	$26.4 \pm 0.0$	$23.1 \pm 0.0$
<i>18SrRNA(a)</i>	<i>negative</i>	<i>negative</i>	<i>negative</i>	$36.3 \pm 0.5$	$32.7 \pm 0.7$	$29.0 \pm 0.3$	$25.7 \pm 0.4$	$22.7 \pm 0.6$
<i>18SrRNA(b)</i>	<i>negative</i>	<i>negative</i>	<i>negative</i>	$36.0 \pm 0.7$	$32.4 \pm 0.8$	$29.3 \pm 0.2$	$25.9 \pm 0.1$	$22.4 \pm 0.1$
<i>cytb</i>	<i>negative</i>	<i>negative</i>	$37.8 \pm 0.8$	$33.8 \pm 0.5$	$29.9 \pm 0.2$	$26.4 \pm 0.2$	$22.6 \pm 0.2$	$19.9 \pm 0.6$
<i>coxI</i>	<i>negative</i>	<i>negative</i>	$36.8 \pm 0.0$	$33.1 \pm 0.2$	$29.4 \pm 0.2$	$26.0 \pm 0.0$	$22.6 \pm 0.0$	$19.1 \pm 0.0$
<i>varATS</i>	<i>negative</i>	<i>negative</i>	$35.9 \pm 1.0$	$33.8 \pm 0.5$	$29.1 \pm 0.2$	$25.6 \pm 0.1$	$21.8 \pm 0.0$	$18.8 \pm 0.1$
r364(b)	<i>negative</i>	<i>negative</i>	$36.8 \pm 2.1$	$33.5 \pm 0.2$	$29.7 \pm 0.2$	$24.9 \pm 0.1$	$22.6 \pm 0.1$	$19.3 \pm 0.1$
TARE-2	<i>negative</i>	<i>negative</i>	$35.4 \pm 2.0$	$31.1 \pm 0.6$	$26.7 \pm 0.1$	$22.7 \pm 0.4$	$18.9 \pm 0.1$	$15.6 \pm 0.2$

Table B. *P. falciparum* Dd2 DNA standards

qPCR Assay	Mean C <sub>t</sub> values ± standard deviations for 10 <sup>x</sup> pg of Dd2 DNA							
	-4	-3	-2	-1	0	1	2	3
<i>crt</i>	<i>negative</i>	<i>negative</i>	<i>negative</i>	37.6 ± 0.5	34.1 ± 0.2	30.6 ± 0.1	27.2 ± 0.2	24.7 ± 1.6
<i>ldh(a)</i>	<i>negative</i>	<i>negative</i>	38.2 ± 0.7	36.5 ± 0.3	33.7 ± 0.8	30.0 ± 0.4	26.5 ± 0.3	23.5 ± 0.7
<i>ldh(b)</i>	<i>negative</i>	<i>negative</i>	<i>negative</i>	36.3 ± 0.5	33.9 ± 0.1	29.4 ± 0.1	25.6 ± 0.1	22.2 ± 0.1
<i>18SrRNA(a)</i>	<i>negative</i>	<i>negative</i>	37.9 ± 0.8	34.1 ± 0.3	31.2 ± 0.6	27.6 ± 0.2	24.2 ± 0.4	20.8 ± 0.2
<i>18SrRNA(b)</i>	<i>negative</i>	<i>negative</i>	37.7 ± 0.1	35.1 ± 0.8	31.8 ± 0.4	27.9 ± 0.4	24.5 ± 0.4	21.2 ± 0.5
<i>cytb</i>	<i>negative</i>	38.7 ± 0.5	35.9 ± 1.1	31.3 ± 0.3	28.5 ± 0.2	24.7 ± 0.2	20.9 ± 0.1	18.2 ± 0.4
<i>coxI</i>	<i>negative</i>	38.1 ± 1.8	34.6 ± 0.4	31.3 ± 0.3	28.0 ± 0.2	24.3 ± 0.1	20.9 ± 0.0	17.5 ± 0.1
<i>varATS</i>	<i>negative</i>	<i>negative</i>	35.8 ± 0.7	32.5 ± 0.2	29.1 ± 0.1	25.5 ± 0.0	21.7 ± 0.0	18.7 ± 0.1
r364(b)	<i>negative</i>	<i>negative</i>	36.3 ± 0.7	33.3 ± 0.3	29.7 ± 0.2	24.6 ± 0.1	22.4 ± 0.2	19.2 ± 0.0
TARE-2	35.2 ± 2.4	36.2 ± 1.4	32.6 ± 0.6	30.0 ± 0.2	26.6 ± 0.1	22.2 ± 0.0	18.3 ± 0.1	15.1 ± 0.2

In these tables, the mean C<sub>t</sub> values and standard deviations of 3 independent replicates for the 10 qPCR assays examined are provided for *P. falciparum* 3D7 (Table A) and Dd2 (Table B) DNA from 10<sup>-5</sup> pg to 10<sup>+2</sup> pg DNA per qPCR. These data describe the linear dynamic range, precision and regression line (and thus PCR efficiency) of each assay.