

**TABLE S1. Geographic origin, native *K13* allele and drug-resistance genotypes of *Plasmodium falciparum* clinical isolates and reference lines.**

Parasite	Original ID	Sanger ID	Provider	Geographic origin (year)	Gene-edited	PCT <sub>1/2</sub> (h)	KH group	K13-propeller	PMID #	<i>pfcr</i>	<i>pfmdr1</i>	<i>pfmdr1</i> CN	<i>dhfr</i>	<i>dhps</i>
Cam3.II <sup>rev</sup>		N/A			yes			synonymous mutation (wt) <sup>a</sup>	25502314	Dd2 <sup>b</sup>	184F	1	Triple <sup>c</sup>	436A/540E
Cam3.II <sup>C580Y</sup>		N/A			yes			C580Y (allele 2)	25502314	Dd2	184F	1	Triple	436A/540E
Cam3.II <sup>R539T</sup>	RF 967	PH0306-C	R. Fairhurst	Pursat, W. Cambodia (2010)	no	6.0	3	R539T (allele 3)	22940027	Dd2	184F	1	Triple	436A/540E
V1/S <sup>ctrl</sup>	V1/S	N/A	MR4	Vietnam (1976)	yes	N/A	N/A	synonymous mutation (wt)	12124623	Dd2	86Y	1	Quadruple	613T
V1/S <sup>C580Y</sup>					yes	N/A	N/A	C580Y (allele 2)	(this report)	Dd2	86Y	1	Quadruple	613T
V1/S <sup>R539T</sup>					yes	N/A	N/A	R539T (allele 3)	25502314	Dd2	86Y	1	Quadruple	613T
Cam5 <sup>rev</sup>		N/A			yes	N/A	N/A	synonymous mutation (wt)	25502314	Dd2	WT	1	Quadruple	436F/540E/613S
Cam5 <sup>I543T</sup>	IPC 4912	N/A	D. Ménard	Mondulkiri, E. Cambodia (2011)	yes	ND	ND	I543T (allele 5)	25502314	Dd2	WT	1	Quadruple	436F/540E/613S
CamWT	RF 915	PH0164-C	R. Fairhurst	Pursat, W. Cambodia (2010)	no	3.7	1	no mutation (wt)	22940027	Dd2	WT	1	Triple	436A/540E
CamWT <sup>C580Y</sup>					yes	N/A	N/A	C580Y (allele 2)	25502314	Dd2	WT	1	Triple	436A/540E

<sup>a</sup> Synonymous mutations introduced into *k13*-specific zinc-finger nuclease binding site; wt: wild-type *K13* amino acid sequence.

<sup>b</sup> Dd2: 74I/75D/76T/220S/271E/326S/356T/371I.

<sup>c</sup> Triple, 51I/59R/108N; Quadruple, 51I/59R/108N/164L.

PCT<sub>1/2</sub>, parasite clearance half-life; PMID #, PubMed identification number; *pfmdr1* CN, *pfmdr1* copy number; MR4, Malaria Research and Reference Reagent Resource, Manassas, VA; N/A, not available; ND, not determined.