

Figure S1: **Photomicrograph of agarose gel for** *COX* **III PCR.** HL is a DNA ladder (hyperladder 100 bp, Bioline, 100–1013 bp); lanes 1–18 shows a band of approximately 500 bp characteristics of *COX* III fragment of *P. falciparum*; lane 19 is for *PF3D7* positive control gDNA

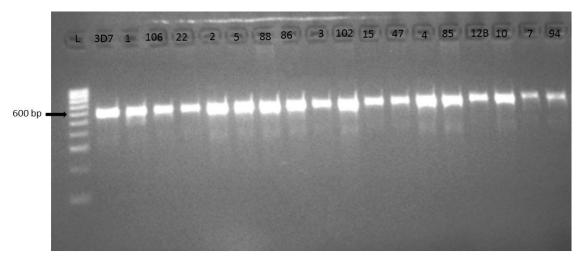


Figure S2: Comparison of sequences of *pfmdr1* of field isolates and PF3D7. Residues affected by mutations are highlighted in grey, with isolate MM106 exhibiting double mutations, 86Y and 184F

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>pf3D7 CRT NGSRLGGGSC LGKCAHVFKL IFKEIKDNIF IYILSIIYLS VCVMNKIFAK 50
>MM106_CRT NGSRLGGGSC LGKCAHVFKL IFKEIKENIF
                                            IYILSIIYLS VCVIETIFAK 50
>MM12B CRT NGSRLGGGSC LGKCAHVFKL IFKEIKENIF
                                            IYILSIIYLS
                                                        VCVIETIFAK 50
>MM21 CRT NGSRLGGGSC LGKCAHVFKL IFKEIKDNIF
                                            IYILSIIYLS
                                                        VCVMET IFAK 50
 >MM1_CRT NGSRLGGGSC LGKCAHVFKL IFKEIKDNIF IYILSIIYLS VCVMNKIFAK 50
 >MM5 CRT NGSRLGGGSC LGKCAHVFKL IFKEIKDNIF
                                             IYILSIIYLS VCVMNKIFAK 50
 >pf3D7 CRT RTLNKIGNYS FVTSETHNFI CMIMFFIVYS LFGNKKGNS 89
>MM106_CRT RTLNKIGNYS FVTSETHNFI CMIMFFIVYS LFGNKKGNS 89
>MM12B_CRT RTLNKIGNYS FVTSETHNFI
                                CMIMFFIVYS
                                            LFGNKKGNS 89
>MM21_CRT RTLNKIGNYS FVTSETHNFI CMIMFFIVYS
                                            LFGNKKGNS 89
 >MM1_CRT RTLNKIGNYS FVTSETHNFI CMIMFFIVYS LFGNKRGNS 89
 >MM5_CRT RTLNKIGNYS FVTSETHNFI CMIMFFIVYS LFGNKNGNS 89
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Figure S3: **Comparison of sequences of** *pfCRT* **of field isolates and PF3D7.** Residues affected by mutations are highlighted in grey, with MM106 and MM12B exhibiting D57E mutation, in addition

to being a CVIET haplotype.

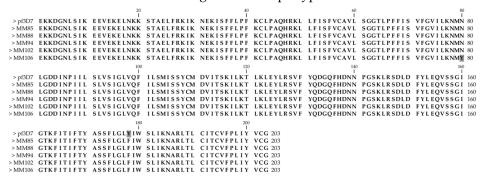


Figure S4: **Photomicrograph of agarose gel for** *pfmdr1***.** L is a DNA ladder (hyperladder 100 bp, Bioline, 100–1013 bp); lane 2 is PF3D7 positive control gDNA, and 3–18 show bands of approximately 610 bp, characteristic of the pfmdr1 fragment encompassing the 86th and 184th codons.

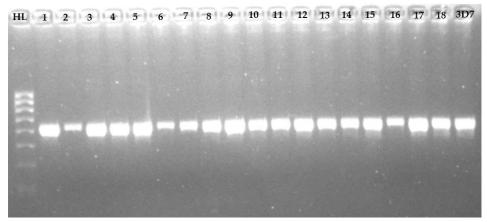


Figure S5: **Photomicrograph of agarose gel for** *pfcrt*. L is a DNA ladder (hyperladder 100 bp, Bioline, 100–1013 bp); lanes 2–19 are 267 bp *pfcrt* fragments encompassing codons 72–76; lane 20 is for PF3D7 positive control gDNA.