

Table S2. SNP analysis of Pailin strains at loci reported to be associated with differences in ART sensitivity.

Kelch 13 (K13), *P. falciparum* Multi-Drug Resistance Gene-2 (MDR2), apicoplast ribosomal protein (ARPS10), ferredoxin (FD), PfCRT, protein phosphatase (PPH), phosphoinositide-binding protein (PIB7), Multi-Drug Resistance Gene-1 (MDR1), Ubiquitin Binding Protein-1 (UBP1), Multidrug Resistance Protein-1 (MRP1), cyclic nucleotide-binding protein (cNBP) and the 3' UTR of the DNA polymerase catalytic subunit. No artemisinin resistance associated mutations were observed in RAD5 or SERCA.

| Gene | PlasmoDB ID | NT | SNP type | Codon | 3D7ref | PL1 | PL2 | PL5 | PL7 |
|--------|--------------------------|---------|----------|--------|--------|-----|-----|-----|-----|
| K13 | PF3D7_1343700 | 1725259 | NSY | C580Y | C | C | C | T | C |
| | | 1725382 | NSY | R539T | C | C | C | C | G |
| | | 1725521 | NSY | Y493H | A | G | A | A | A |
| MDR2 | PF3D7_1447900 | 1956225 | NSY | T484I | G | A | G | A | A |
| ARPS10 | PF3D7_1460900.1 | 2481070 | NSY | V127M | G | A | G | A | A |
| FD | PF3D7_1318100 | 748395 | NSY | D193Y | C | A | A | A | A |
| PfCRT | PF3D7_0709000 | 405362 | NSY | N326S | A | G | G | G | G |
| | | 405600 | NSY | I356T | T | C | T | C | C |
| PPH | PF3D7_1012700 | 490720 | NSY | V1157L | G | G | C | C | C |
| PIB7 | PF3D7_0720700 | 405362 | NSY | C1484F | G | G | G | T | T |
| MDR1 | PF3D7_0523000 | 405600 | NSY | N86Y | A | A | T | A | A |
| UBP1 | PF3D7_0104300 / PFA0220w | 490720 | NSY | E1528D | A | A | A | C | A |
| MRP1 | PF3D7_0112200 | 896660 | NSY | I876V | A | G | G | G | A |
| NBP | PF3D7_1417400 | 958145 | NSY | S993L | C | T | C | T | T |
| DNApol | PF3D7_1017000 | 194852 | 3' UTR | 95 | T | A | A | A | T |

Legend:

SYN SYNONYMOUS

NSY NON-SYNONYMOUS

Codon Codon containing a SNP reported to be associated with ART resistance ([17], [26], [18])

HOMOZYGOUS_REFERENCE

HOMOZYGOUS_ALTERNATE