

Figure S1A. Genotyping of the MAD20 *msp-1* locus. Serial blood samples from participants MW1, MW2 and MW3 were genotyped at the MAD20 *msp-1* locus. Panels A, B and C show genotyping results for serial blood samples from participants MW1, MW2 and MW3 respectively while panel D shows MAD20 genotype data for *Plasmodium falciparum* laboratory controls, DD2, 3D7, W2 and K1. NWC represents a negative water control; D1 to D7 are the seven days of blood sampling from each participant. Some serial blood samples from participants MW1 and MW2 show different parasite DNA fingerprints but all serial samples from participant MW3 have identical parasite DNA fingerprint profiles. These data show that a single blood often captures only a subset of parasite genotypes in an infection.

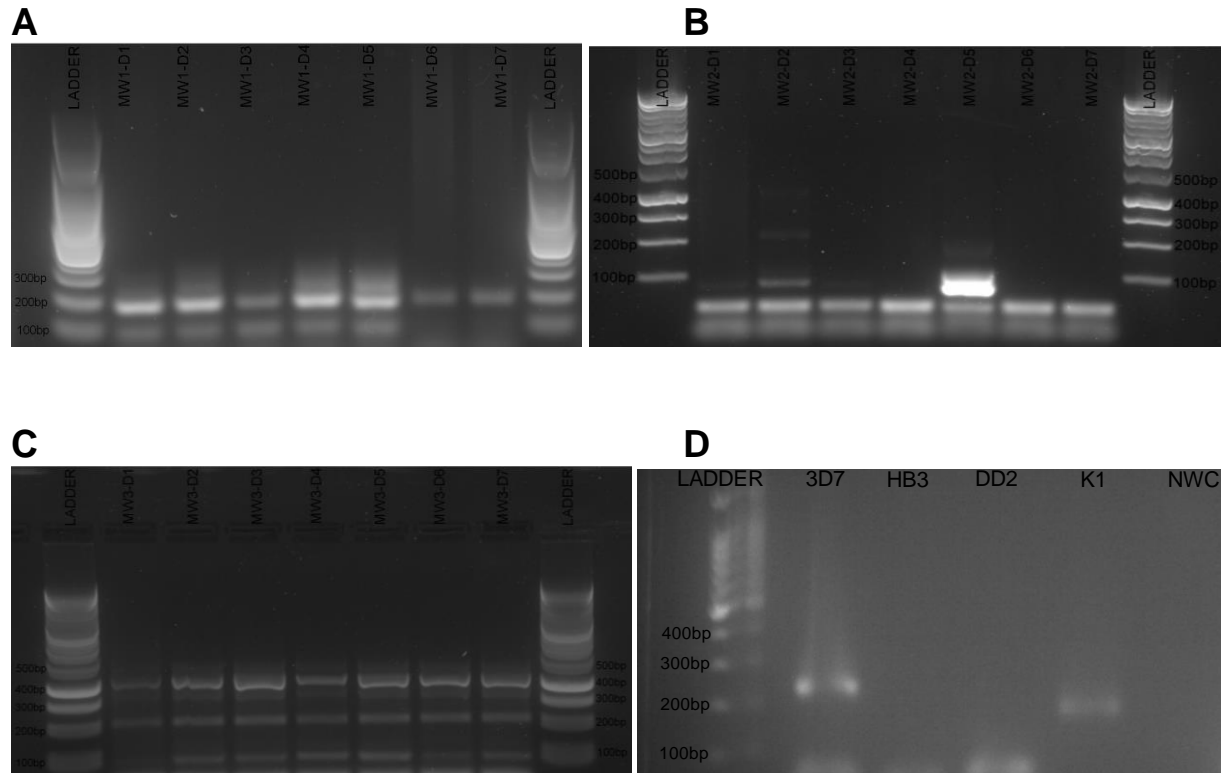


Figure S1B. Genotyping of the K1 msp-1 locus. Serial blood samples from participants MW1, MW2 and MW3 were genotyped at the K1 msp-1 locus. Panels A, B and C show genotyping results for serial blood samples from participants MW1, MW2 and MW3 respectively while panel D shows K1 genotype data for *Plasmodium falciparum* laboratory controls, 3D7, HB3, DD2 and K1. NWC represents a negative water control; D1 to D7 denote the seven days of blood sampling from each participant. Serial blood samples from participants MW1 and MW2 exhibit different parasite DNA fingerprint profiles on different days of sampling but those from participant MW3 show identical parasite DNA fingerprints on all the seven days of sampling. These data show that a single blood often captures only a subset of parasite genotypes in an infection.

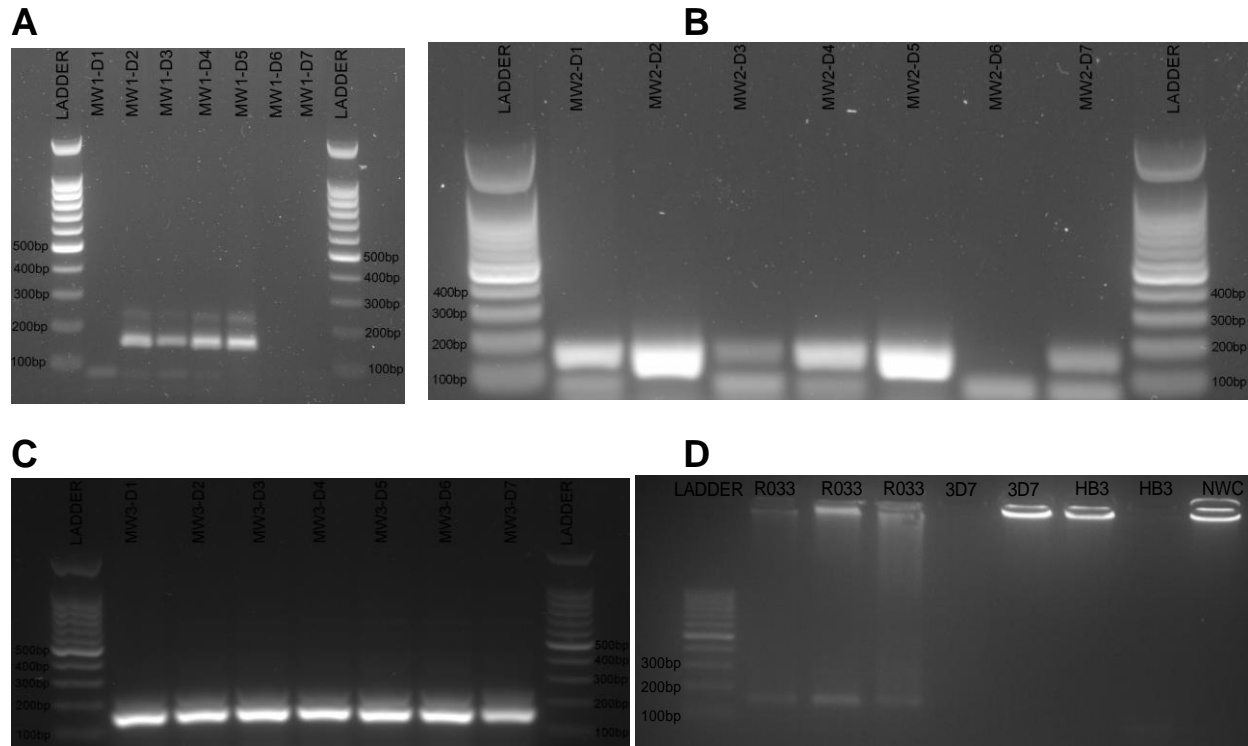


Figure S1C. Genotyping of the R033 *msp-1* locus. Serial blood samples from participants MW1, MW2 and MW3 were genotyped at the R033 *msp-1* locus. Panels A, B and C show genotyping results for serial blood samples from participants MW1, MW2 and MW3 respectively while panel D shows R033 genotype data for *Plasmodium falciparum* laboratory controls, R033, 3D7 and HB3. NWC represents a negative water control; D1 to D7 are the seven days of blood sampling from each participant. Some serial blood samples from participants MW1 and MW2 show different parasite DNA fingerprints but all serial samples from participant MW3 have identical parasite DNA fingerprint profiles. These data show that a single blood often captures only a subset of parasite genotypes in an infection.

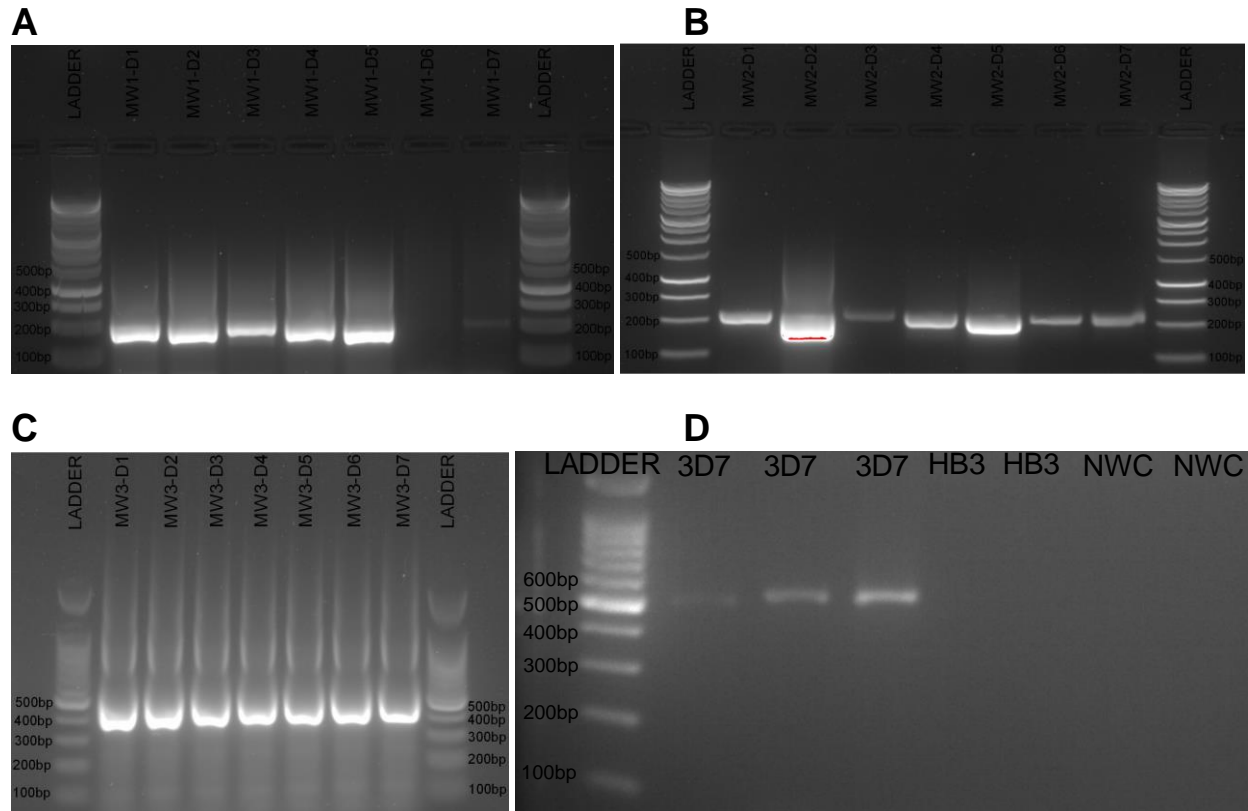


Figure S1D. Genotyping of the 3D7/IC *msp-2* locus. Serial blood samples from participants MW1, MW2 and MW3 were genotyped at the 3D7/IC *msp-2* locus. Panels A, B and C show genotyping results for serial blood samples from participants MW1, MW2 and MW3 respectively while panel D shows genotype data for *Plasmodium falciparum* laboratory controls, 3D7 and HB3. NWC represents a negative water control; D1 to D7 are the seven days of blood sampling from each participant. Some serial blood samples from participants MW1 and MW2 show different parasite DNA fingerprints but all serial samples from participant MW3 have identical parasite DNA fingerprint profiles. These data show that a single blood often captures only a subset of parasite genotypes in an infection.

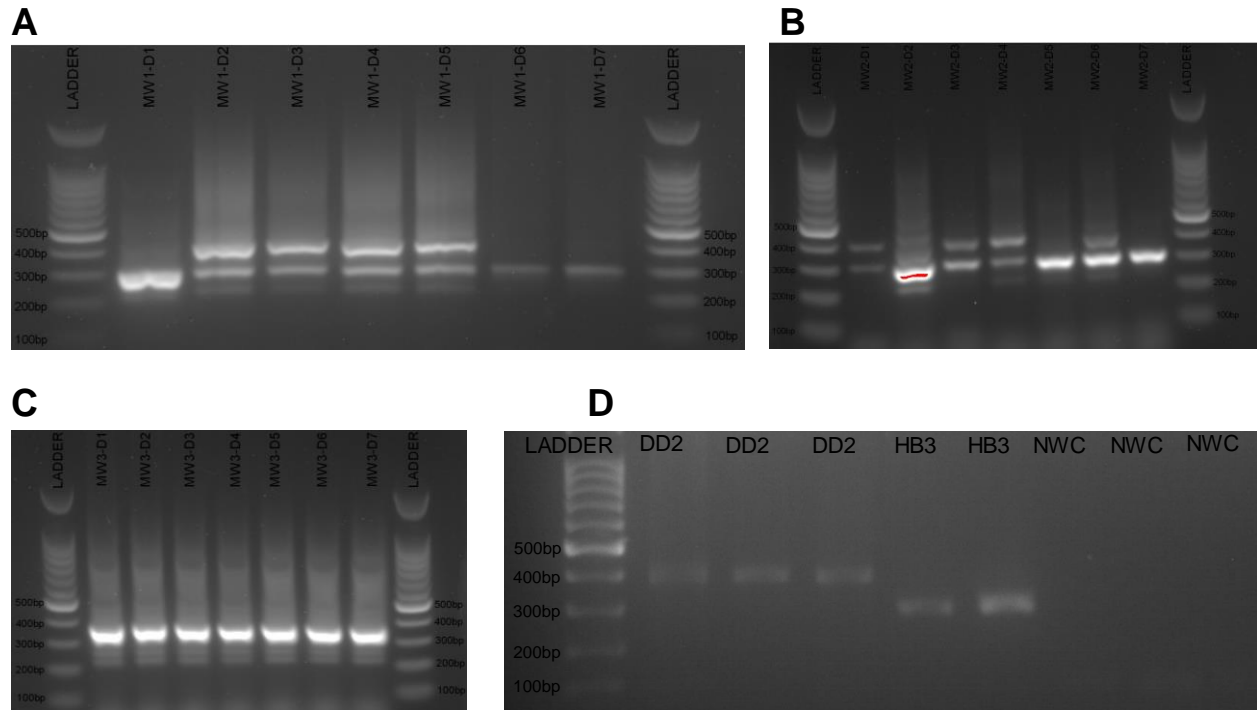


Figure S1E. Genotyping of the FC27 *msp-2* locus. Serial blood samples from participants MW1, MW2 and MW3 were genotyped at the FC27 *msp-2* locus. Panels A, B and C show genotyping results for serial blood samples from participants MW1, MW2 and MW3 respectively while panel D shows genotype data for *Plasmodium falciparum* laboratory controls, DD2 and HB3. NWC represents a negative water control; D1 to D7 are the seven days of blood sampling from each participant. Some serial blood samples from participants MW1 and MW2 show different parasite DNA fingerprints but all serial samples from participant MW3 have identical parasite DNA fingerprint profiles. These data show that a single blood often captures only a subset of parasite genotypes in an infection.