



**S3 Fig.** The designed primer and blocker probes for amplification of epidermal growth factor receptor (*EGFR*) mutations with low variant allele frequency by the blocker displacement amplification using polymerase chain reaction (PCR) method. Primer pairs were added the adapter nucleotide sequence at the 5' end. Each forward primer was designed to close each mutant nucleotide. The blocker probes were created to bind perfectly with wild-type alleles for competitive binding of forward primers. Conversely, they could not bind to mutant alleles, leading to forward primers binding for PCR amplification.