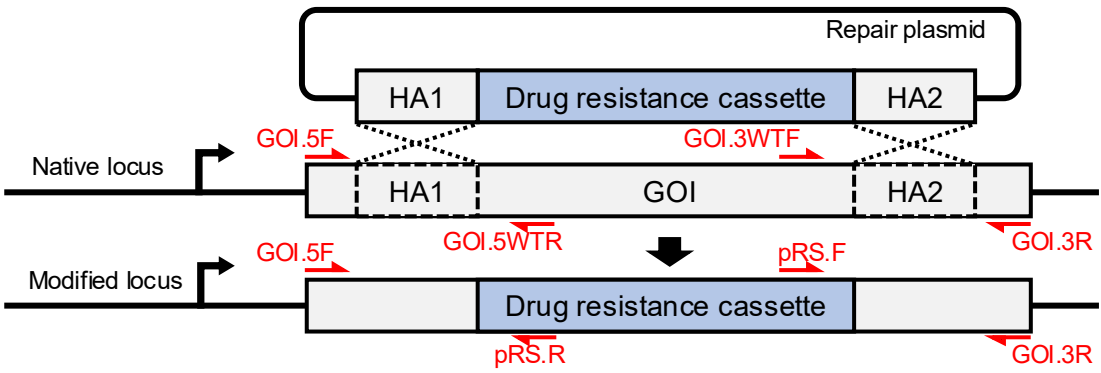


A



B

PCR reaction	Primer combination		Parasite line
	Forward	Reverse	
$\Delta 5'$	GOI.5F	pRS.R	Gene knockout lines
$\Delta 3'$	pRS.F	GOI.3R	
5'	GOI.5F	GOI.5WTR	
3'	GOI.3WTF	GOI.3R	
$\Delta 5'$	GOI.5F	pRS.R	PfMev (parental)
$\Delta 3'$	pRS.F	GOI.3R	
5'	GOI.5F	GOI.5WTR	
3'	GOI.3WTF	GOI.3R	

C

Gene of interest	Anticipated amplicon sizes (bp)			
	$\Delta 5'$	$\Delta 3'$	5'	3'
<i>acp</i>	526	526	539	596
<i>acps</i>	547	584	560	654
<i>fabD</i>	488	547	501	617

Genomic PCR analysis to confirm targeted gene disruption. (A) Schematic depiction of targeted gene and primer-annealing sites. (B) Primer combinations to test 5' or 3' integration or confirm parental locus. (C) Expected PCR amplicon sizes for indicated primer pairs.