

List of primers used in this study

Primer ID	Gene ID	Sequence	Enzymes	Product (bp)	Description
P1	PF3D7_0304600	ATAGGTACCAGCACGTGATAAAGTAATTG	<i>KpnI</i>	1007	Forward HR 1 <i>pfcs</i>
P2	PF3D7_0304600	ACGGAATTCGCGCGATATCTGTAATTTATAATATACGTGG	<i>EcoRI/EcoRV</i>		Reverse HR 1 <i>pfcs</i>
P3	PF3D7_0304600	CATAAGAATTCAGAACACATCTTAGTTTGAG	<i>EcoRI</i>	927	Forward HR 2 <i>pfcs</i>
P4	PF3D7_0304600	AATCGACGCTTCTAGCTTTTAGTATAGGATAG	<i>AatII</i>		Forward HR 2 <i>pfcs</i>
P5		GGGGATATCGCGGCCGCACAAAATCTATATATACACGCATATATTTAAAATG	<i>EcoRV/NotI</i>	1188	Forward ORF <i>pvcsp-vk210/247</i>
P6		AGAATGAATTCATGCGTAATGTTTATTTAATTAATAAATAATGC	<i>EcoRI</i>		Reverse ORF <i>pvcsp-vk210/247</i>
P7	PF3D7_0304600	TAAGTATATAATATTTAAGGCCTCAACAAATAAAAATTTAGAGCTAGAA			Forward gRNA012
P8	PF3D7_0304600	TTCTAGCTCTAAAACTTTTATTTGTTGAGGCCTTAATATTATATACTTA			Reverse gRNA012
P9		CATTTGGATTCTACACATCTTG			Sequencing gRNA012
P10		TAGGAAATAATAAAAAAGCACC			Sequencing gRNA012
P11	PF3D7_0304600	TATTATGGAAGTTCGCAACACA	<i>BbsI</i>		Forward gRNA026
P12	PF3D7_0304600	AAACTGTGTTGACGAACCTCCAT	<i>BbsI</i>		Reverse gRNA026
P13	PF3D7_0304600	TATTTAAGGCCTCAACAAATAAAA			Forward gRNA012 <i>Pf csp ko</i>
P14	PF3D7_0304600	AAACTTTATTTGTTGAGGCCTTA			Reverse gRNA012 <i>Pf csp ko</i>
P15	PF3D7_0304600	GCTTATAGTCATATACCTAATACG		3676,3728 (<i>Pf-Pvcsp</i>),	Forward long range PCR
P16	PF3D7_0304600	GAACACCGTATGATTATATGAC		3662 (WT)	Reverse long range PCR
P17		GATGGAAATAACGAAGACAACGAG		650	Forward <i>Pf csp</i> orf
P18		CATCTACATTTGCGTTTGGGTCA			Reverse <i>Pf csp</i> orf
P19		CCAATTATTGCTGATTATACAAATG		With P15 1867	Reverse 5' integration
P20		AAAGGTACCTAAAAGAAATATGAGAAC		711	Forward mCherry
P21		AAAAAGCTTTTTCGCCACAGGAGAAAC			Reverse mCherry
P22	PF3D7_0405300	AACGCTAGCTTCCGGATCGCTGCTTTAC		5400	Forward Sequesterin
P23	PF3D7_0405300	AGCCGCGGCATGGAGAAGGGTTCTATTTTATCG			Reverse Sequesterin
P24		CGCGTAATACGACTCACTATAGGGC			LR-PCR sequencing
P25		CAGTGTGATGGATATCTGCAG			LR-PCR sequencing
P26		CATGCAGATATAAAAAGGTAGAAG			LR-PCR sequencing
P27		AGCAGAACCTAAAAATCCAAG			LR-PCR sequencing
P28		CATTTCCACAGCTGCTTG			LR-PCR sequencing
P29		CCGGGGTACCAGTTGTGTAACATAAATGTTTCTC			LR-PCR sequencing
P30		CATGTGGTGTGGAGTTAGAG			LR-PCR sequencing
P31		TTTATGCTTCCGGCTCGTATG			LR-PCR sequencing
P32		ggggatatcgcggccgcACAAAATCTATATATACACGCATATATTTAAAATG			LR-PCR sequencing

