Appendix

Figure A1: sequence of synthetic gene. As ordered from Geneart including wildtype coding region, mutated gRNA, recodonised 3'end, 3xHA tag, 3'utr

Primer		Sequence
Primer 1 (P1)	211	GAT GTC ATA TCA CTA ACC AAA AAT TTT
Primer 2 (P2)	203	ATT TTC CCT TGT TTT GAT TTC CTC T
Primer 3 (P3)	153	CGAGGAGTTGCACAAGAACA
Primer 4 (P4)	4	GGCATAATCTGGAACATCGTAA
Primer 5 (P5)	133	GCA TAC CTA GTA CTC AAG TTT AC
3'PKG Bcll		GAAAGAGAAATAACAGCAGAAAATGATCATCCC
PKG CR		ATCTTCTGCATAAGTTTCAC

gRNA oligo sequences				
209	PDEdelta 3' new	TAAGTATATAATATT		
	gRNA F	ACGGTTGTTGGACATAGCTGGTTTTAGAGCTAGAA		
210	PDEdelta 3' new	TTCTAGCTCTAAAAC		
	gRNA R	CAGCTATGTCCAACAACCGTAATATTATATACTTA		





Figure A3: XA-induced Ca²⁺ release in *P. falciparum* Schizonts.



Figure A4: Predicted protein structure of *Pf***PDEδ.** Generated using Phyre 2 from a sequence alignment with HsPDE9A