

**Table S2: Plasmids generated in this study.** YFP, yellow fluorescent protein; DD, *E. coli* dihydrofolate reductase destabilization domain; HA, hemagglutinin tag; hDHFR, human dihydrofolate reductase; yDHOD, yeast dihydroorotate dehydrogenase.

**A. Plasmids for chromosomal integration by homologous recombination.**

Protein	Modification	Resistance	Name
PfVps29	C-terminal YFP	hDHFR	pPfVps29-YFP
PfVps26	C-terminal YFP	hDHFR	pPfVps26-YFP
PfVps35	C-terminal YFP	hDHFR	pPfVps35-YFP
	C-terminal HA	hDHFR	pPfVps35-HA
	Double cross-over recombination for gene disruption	hDHFR	pPfVps35-DKO
PfSortilin	Internal HA tag	hDHFR	pSortilin-HA

**B. Plasmids carrying *piggyBac* transposable expression cassettes.**

Gene	Cassette organization ( <i>promoter/coding sequences</i> )	Resistance	Name
PfVps29	<i>pfvps29</i> /PfVps29-mCherry	hDHFR	pPfVps29-mCherry
	<i>pfvps29</i> /PfVps29-mCherry	yDHOD	pPfVps29-mCherry-yDHOD
PfRab7	<i>pfrab7</i> /DD-mCherry	hDHFR	pDD-mCherry
	<i>pfrab7</i> /DD-mCherry-PfRab7	hDHFR	pDD-mCherry-PfRab7
	<i>pfrab7</i> /DD-mCherry-PfRab7	yDHOD	pDD-mCherry-PfRab7-yDHOD
	<i>pfrab7</i> /DD-mCherry-PfRab7(C-terminal 2-residue truncation)	hDHFR	pDD-mCherry-PfRab7 $\Delta$ ACC
	<i>pfrab7</i> /DD-mCherry-PfRab7 T22N	hDHFR	pDD-mCherry-PfRab7T22N
	<i>pfrab7</i> /DD-mCherry-PfRab7 N125I	hDHFR	pDD-mCherry-PfRab7N125I
	<i>pfrab7</i> /DD-mCherry-PfRab7 Q67L	hDHFR	pDD-mCherry-PfRab7Q67L
	<i>pfapp</i> /DD-mCherry-PfRab7 T22N	hDHFR	pPfAPPp-DD-mCherry-PfRab7T22N
	<i>pfapp</i> /DD-mCherry-PfRab7 N125I	hDHFR	pPfAPPp-DD-mCherry-PfRab7N125I
	<i>pfapp</i> /DD-mCherry-PfRab7 Q67L	hDHFR	pPfAPPp-DD-mCherry-PfRab7Q67L
PfRab6	<i>pfrab6</i> /DD-mCherry-PfRab6	hDHFR	pDD-mCherry-PfRab6
	<i>pfrab6</i> /DD-mCherry-PfRab6	yDHOD	pDD-mCherry-PfRab6-yDHOD