

**Table S1: Sequences of oligonucleotides used in this study.** Restriction sites are underlined. Where two restriction sites are present, the second is double underlined. RE, restriction endonuclease; UTR, untranslated region; ecDHFR-DD, *E. coli* dihydrofolate reductase destabilization domain; yDHOD, yeast dihydroorotate dehydrogenase; HA, hemagglutinin epitope tag; PfAPP, *P. falciparum* aminopeptidase P; HSP, heat shock protein.

Name	Oligonucleotide Sequence (5' to 3')	RE site	Purpose
334	GCACG <u>CTCGAG</u> AGTGGGAAATTGGAAGATATTGG	XhoI	PCR: PfVps29 bases 4 to 582
335	GCACG <u>CCTAGG</u> TATAACTGTTGACTTATGTAGTTCAC	AvrII	
352	GCACG <u>CTCGAG</u> ATACCAATTTATTAACAGTAGCTAGC	XhoI	PCR: PfVps35 bases 2444 to 3150
353	GCACG <u>CCTAGG</u> TGATCTCAATATGGATGTATCTATATTAATTTTCTG	AvrII	
428	GCACG <u>CTCGAG</u> CTATATCAAAAAGATC	XhoI	PCR: PfVps26 bases 257 to 891
429	GCACG <u>CCTAGG</u> ACCCATTTTTTTTCG	AvrII	
344	GTACG <u>CCGCGG</u> AAAATATGCCTCAAATATGCTGTGC	SacII	PCR: PfVps35 bases 368 to 938
345	GTACG <u>ACTAGT</u> AGATCCAACAACTAACATTTTACATCC	SpeI	
346	GTACG <u>CCATGG</u> TTATTAACAGTAGCTAGCCAAATGC	NcoI	PCR: PfVps35 bases 2661 to 3238
347	GTACG <u>CCTAGG</u> TTATTGTAATAATCTTGGCATATGTC	AvrII	
456	GCACG <u>CTCGAG</u> CCGTGTTATTATTTAAAGATGAGTGG	XhoI	PCR: PfVps29 bases 1 to 582
457	GTACG <u>CCTAGG</u> TATAACTGTTGACTTATGTAGTTCAC	AvrII	
458	GCACG <u>CCCCGG</u> TCTATTTTCTGTTTTCAATTTTTCACAC	XmaI	PCR: PfVps29 5' UTR (-800 to -20)
459	CACG <u>GCTCGAG</u> AAAAAAAAAAAAAAAAATATATGAAAATA	XhoI	
460	GTACG <u>CCTAGG</u> GAAAATTTATATTTTCAAAGTGTGAGCAAGGGCGAGGAGGATAAC	AvrII	PCR: mCherry bases 4 to 711
461	GTACG <u>GCGGCC</u> GCTTACTTGTACAGCTCGTCCATGC	NotI	
470	GTACG <u>CTCGAG</u> CTTAAAAGAATAATAATGATCAGTCTGATTGCGGCGTTAG	XhoI	PCR: ecDHFR-DD bases 1 to 474
471	GTACG <u>CCTAGG</u> TCCTCCTCCTCCTCCCGCCGCTCCAGAATCTCAAAGC	AvrII	
484	GTACG <u>CCTAGG</u> GTGAGCAAGGGCGAGGAGGATAAC	AvrII	PCR: mCherry bases 4 to 708
485	GTACG <u>GCGGCC</u> GCTACT <u>C</u> CGCGGACTTTGAAAATATAAATTTTCCTTGTACAGCTCGTCCATGCCGC	SacII/NotI	
476	GTACG <u>CCCCGG</u> GAATAAAAACATTTTAATTGCACATGTGTG	XmaI	PCR: PfRab7 5' UTR (-880 to -17)
477	GTACG <u>CTCGAG</u> TIGTTCTTTTTTTTTTTTTTTTTTTTATTTAAATTTGATTTTAC	XhoI	
478	GTACG <u>CCGCGG</u> TCAAATAAAAAAGAACCATATTTAAAG	SacII	PCR: PfRab7 bases 4 to 621
479	GTACG <u>GCGGCC</u> GCTTAACAACAACGACTTTTGTACATTTTTTG	NotI	
480	GTACG <u>CCCCGG</u> TTTCTTTTGTGTTGAATTTAAATATTTTAGAG	XmaI	PCR: PfRab6 5' UTR (-806 to -16)
481	GTACG <u>CTCGAG</u> AAAATAAAAAATATTTTAAATTAAGAATTAGTC	XhoI	

482	GTACG <u>CCGCGGG</u> GATGAATTTCAA <u>AACTCGGG</u> AC	SacII	PCR: PfRab6 bases 4 to 624
483	GTACG <u>GCGGCCG</u> CTTAACATAAAACATTTACTTAACATATTTTTG	NotI	
597	GTACG <u>GCGGCCG</u> CTTACTTGTACAGCTCGTCCATGC	NotI	PCR: mCherry with 3' stop codon
598	GTACG <u>GCGGCCG</u> CTTAACGACTTTTGTACATTTTTTGTTCG	NotI	PCR: PfRab7ΔCC bases 4 to 612
599	GTACGAGATCTTACT <u>CCGCGG</u> TCAAATAAAAAAAGAACCATATTA <u>AAAAG</u>	BglII/SacII	PCR: PfRab7 transfer to pSP72
600	GTACG <u>CTCGAGT</u> ACT <u>GCGGCCG</u> CTTAACAACAACGACTTTTGTACATTTTTTG	XhoI/NotI	
591	CTTGGAGATAGTGGTGTGGTAAAAATTCATTAATGAATCAATATGTG	none	Quikchange: PfRab7 T22N
592	CACATATTGATTCATTAATGAATTTTTACCAACACCACTATCTCCAAG	none	
593	GATATGGGATACTGCAGGACTAGAACGTTTTCAAAGTTTAGGAG	none	Quikchange: PfRab7 Q67L
594	CTCCTAAACTTTGAAAACGTTCTAGTCCTGCAGTATCCCATATC	none	
595	GAAAATTTTCCTTTTGTATTATTGGACTTAAAGTTGATGAAACAAATAAAAG	none	Quikchange: PfRab7 N125I
596	CTTTTATTTGTTTCATCAACTTTAAGTCCAATAATAACAAAAGGAAAATTTTC	none	
251	GTACGCCC <u>GGTAA</u> GTTTTTTTTTTATTTGATATAGAAAC	XmaI	PCR: PfAPP 5' UTR (-865 to -39)
144	GCACGCTCGAGATTTAAAAA <u>AAAAA</u> AGAAAGAAAG	XhoI	
HSPR1	TATATATGTATATTGGGGTGATG	none	Sequencing: HSP86 3' UTR reverse
276	GCACGCTCGAGGTCAATATTATTTATAATATTTATCATGG	XhoI	PCR: PfSortilin bases 2476 to 3106
283	GTACG <u>CCTAGGT</u> GAAAGGTGATATATTCCTTGAGGT	AvrII	
286	<u>CTAGGT</u> ATCCATATGATGTACCAGATTATGCAAAAAATTATGCAGATAATATTGAATTATTA TAAG <u>C</u>	AvrII/NotI	Annealing oligos: HA tag and PfSortilin bases 3107 to 3139
287	<u>GGCCG</u> CTTATAATAATTCAATATTATCTGCATAATTTTTTGCATAATCTGGTACATCATATGG ATAC	AvrII/NotI	
501	CTACGAGATCTCATTTTGTAAAAAAATTA <u>AAATATATTTATAT</u>	BglII	PCR: yDHOD cassette
502	CTACGGAATTC <u>TTAATAA</u> ATATGTTCTTATATATAATGAG	EcoRI	
245	TCGAAGGCGCCATATA <u>CCCGGG</u> ATATAC	KasI/XmaI	Annealing oligos: pXL-BacII linker
246	TCGAGTATAT <u>CCCGGG</u> TATAT <u>GGCGCCT</u>	XmaI/KasI	

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