

Table S3. Similarity of individual mt genes from *Plasmodium* species relative to *P. falciparum*.

gene	rRNA order ^a	size (nt)	<i>berghei</i>	<i>billbrayi</i>	<i>billcollinsi</i>	<i>chabaudi</i>	<i>coatneyi</i>	<i>cynomolgi</i>	<i>fieldi</i>	<i>floridense</i>	<i>fragile</i>	<i>gallinaceum</i>	<i>gonderi</i>	<i>hylobati</i>	<i>inui</i>	<i>juxtannucleare</i>	<i>knowlesi</i>	<i>malariae</i>	<i>mandrill^b</i>	<i>mexicanum</i>	<i>ovale</i>	<i>reichenowi</i>	<i>relictum</i>	<i>simiovale</i>	<i>simium</i>	<i>vivax</i>	<i>yoeli</i>	average	
RNA14	S1	39	100.0%	97.4%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	92.3%	100.0%	97.4%	97.4%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	99.5%
RNA12	S2	59	89.8%	98.5%	100.0%	86.4%	93.2%	91.5%	93.2%	93.2%	91.5%	96.6%	96.6%	93.2%	89.8%	94.9%	89.8%	91.5%	91.5%	93.2%	93.2%	100.0%	94.9%	91.5%	89.8%	89.8%	89.8%	89.8%	92.7%
RNA17	S3	40	97.5%	97.6%	97.5%	97.5%	97.5%	100.0%	100.0%	100.0%	95.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	95.0%	100.0%	100.0%	100.0%	97.5%	100.0%	100.0%	100.0%	100.0%	95.0%	98.9%	
SSUA	S4	108	92.6%	99.1%	99.1%	92.6%	93.5%	93.5%	94.4%	94.4%	94.4%	93.5%	93.5%	94.4%	93.5%	93.5%	93.5%	93.5%	93.5%	94.4%	93.5%	100.0%	93.5%	93.5%	93.5%	93.5%	92.6%	94.3%	
RNA8	S5	100	94.0%	99.1%	99.0%	95.0%	96.0%	95.0%	96.0%	91.0%	95.0%	94.0%	97.0%	96.0%	95.0%	94.0%	95.0%	96.0%	96.0%	95.0%	95.0%	99.0%	93.0%	94.0%	95.0%	95.0%	93.0%	95.3%	
SSUB	S6	116	97.4%	99.2%	99.1%	97.4%	99.1%	97.4%	99.1%	96.6%	96.6%	97.4%	97.4%	99.1%	97.4%	97.4%	97.4%	97.4%	97.4%	97.4%	99.1%	99.1%	97.4%	97.4%	97.4%	97.4%	97.4%	97.8%	
RNA19	S7	30	100.0%	96.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
RNA9	S8	54	94.4%	98.3%	98.1%	94.4%	92.6%	92.6%	94.4%	92.6%	92.6%	94.4%	94.4%	94.4%	90.7%	94.4%	92.6%	96.3%	94.4%	100.0%	94.4%	98.1%	96.3%	96.3%	92.6%	90.7%	98.1%	94.7%	
RNA5	S9	87	89.7%	99.0%	95.4%	87.4%	90.8%	88.5%	89.7%	87.4%	88.5%	86.2%	87.4%	88.5%	87.4%	86.2%	89.7%	88.5%	89.7%	85.1%	87.4%	98.9%	87.4%	88.5%	87.4%	89.7%	90.8%	89.2%	
SSUD	S10	68	98.5%	98.6%	100.0%	98.5%	95.6%	95.6%	95.6%	95.6%	95.6%	92.6%	95.6%	97.1%	94.1%	94.1%	95.6%	97.1%	95.6%	94.1%	97.1%	100.0%	94.1%	95.6%	95.6%	95.6%	97.1%	96.1%	
SSUE	S11	42	100.0%	97.6%	100.0%	100.0%	100.0%	100.0%	100.0%	97.6%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	97.6%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	99.8%	
SSUF	S12	61	98.4%	98.4%	100.0%	98.4%	100.0%	100.0%	100.0%	100.0%	100.0%	98.4%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	98.4%	100.0%	100.0%	100.0%	100.0%	98.4%	99.5%	
average SSU rRNA		804	95.3%	97.8%	94.9%	96.0%	98.9%	95.4%	96.3%	94.8%	95.1%	96.3%	95.1%	96.0%	94.5%	95.3%	95.3%	95.5%	95.8%	95.5%	95.9%	99.3%	95.4%	95.5%	95.1%	95.3%	95.3%	95.8%	
LSUA	L1	176	97.7%	99.4%	99.3%	97.2%	96.6%	85.2%	97.7%	98.9%	97.7%	97.7%	85.2%	98.3%	97.2%	98.9%	97.2%	98.3%	99.3%	97.7%	98.3%	97.7%	98.9%	85.2%	97.2%	97.2%	97.7%	98.0%	
RNA2	L2	67	92.5%	98.6%	98.5%	94.0%	94.0%	92.5%	95.5%	92.5%	94.0%	94.0%	92.5%	95.5%	92.5%	92.5%	91.0%	95.5%	92.5%	92.5%	95.5%	100.0%	92.5%	94.0%	94.0%	92.5%	92.5%	94.1%	
LSUB	L3	29	100.0%	96.6%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	96.6%	96.6%	93.1%	100.0%	96.6%	100.0%	96.6%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	99.2%	
LSUC	L4	22	95.5%	95.7%	90.9%	95.5%	95.5%	95.5%	95.5%	86.4%	86.4%	90.9%	95.5%	95.5%	100.0%	90.9%	90.9%	100.0%	100.0%	90.9%	90.9%	100.0%	90.9%	95.5%	95.5%	95.5%	95.5%	94.2%	
RNA11	L5	57	91.2%	98.4%	98.2%	94.7%	89.5%	91.2%	93.0%	91.2%	91.2%	93.0%	93.0%	91.2%	91.2%	100.0%	89.5%	91.2%	89.5%	94.7%	93.0%	98.2%	91.2%	87.7%	87.7%	91.2%	91.2%	92.5%	
RNA1	L6	88	96.6%	98.9%	98.9%	96.6%	98.9%	96.6%	97.7%	93.2%	96.6%	95.5%	96.6%	98.9%	95.5%	98.9%	97.7%	95.5%	94.3%	95.5%	96.6%	100.0%	98.9%	96.6%	96.6%	96.6%	95.5%	96.9%	
RNA3	L7	81	95.1%	98.8%	100.0%	93.8%	95.1%	96.3%	96.3%	93.8%	93.8%	97.5%	96.3%	95.1%	95.1%	97.5%	96.3%	96.3%	95.1%	95.1%	96.3%	100.0%	97.5%	96.3%	96.3%	96.3%	95.1%	96.1%	
LSUD	L8	83	97.6%	98.8%	100.0%	97.6%	97.6%	97.6%	97.6%	97.6%	97.6%	97.6%	98.8%	97.6%	97.6%	97.6%	98.8%	97.6%	98.8%	97.6%	97.6%	100.0%	97.6%	97.6%	97.6%	97.6%	97.6%	98.0%	
LSUE	L9	195	98.5%	99.5%	100.0%	99.5%	98.5%	98.5%	99.0%	97.4%	99.0%	97.9%	99.0%	99.0%	98.5%	97.9%	99.0%	98.5%	99.0%	96.9%	99.0%	100.0%	97.4%	98.5%	98.5%	99.0%	99.0%	98.7%	
RNA13	L10	30	96.7%	96.8%	100.0%	96.7%	100.0%	100.0%	100.0%	96.7%	96.7%	96.7%	96.7%	100.0%	100.0%	100.0%	96.7%	100.0%	96.7%	96.7%	100.0%	100.0%	96.7%	96.7%	100.0%	96.7%	96.7%	98.3%	
LSUF	L11	115	98.3%	99.1%	100.0%	97.4%	99.1%	98.3%	99.1%	93.9%	98.3%	96.5%	99.1%	98.3%	98.3%	97.4%	98.3%	97.4%	100.0%	97.4%	98.3%	100.0%	97.4%	98.3%	98.3%	98.3%	98.3%	98.2%	
LSUG	L12	107	98.1%	99.1%	99.1%	97.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	98.1%	99.7%	
RNA10	L13	100	82.0%	99.2%	100.0%	79.0%	87.0%	83.0%	90.0%	85.0%	78.0%	83.0%	82.0%	91.0%	88.0%	82.0%	78.0%	85.0%	88.0%	86.0%	85.0%	98.0%	83.0%	83.0%	83.0%	83.0%	82.0%	89.1%	
RNA18	L14	25	100.0%	96.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
RNA6	L15	58	96.6%	98.3%	100.0%	96.6%	96.6%	96.6%	98.3%	100.0%	98.3%	98.3%	98.3%	98.3%	98.3%	96.6%	98.3%	98.3%	98.3%	98.3%	98.3%	100.0%	100.0%	98.3%	96.6%	96.6%	96.6%	98.1%	
average LSU rRNA		1233	96.3%	99.2%	96.2%	96.5%	99.4%	96.8%	97.3%	95.5%	96.4%	97.2%	96.4%	97.1%	96.4%	97.1%	96.3%	96.5%	96.9%	95.9%	96.8%	99.5%	96.6%	96.8%	96.6%	96.7%	96.3%	96.9%	
average mt rRNAs		2037	95.9%	98.6%	95.7%	96.3%	99.2%	96.2%	96.9%	95.2%	95.9%	96.9%	95.9%	96.7%	95.7%	96.4%	95.9%	96.1%	96.5%	95.8%	96.4%	99.4%	96.1%	96.3%	96.0%	96.1%	95.9%	96.5%	
RNA4	unassigned	72	86.1%	96.9%	98.6%	83.3%	87.5%	86.1%	86.1%	90.3%	84.7%	90.3%	86.1%	86.1%	84.7%	88.9%	76.4%	84.7%	86.1%	88.9%	86.1%	100.0%	90.3%	87.5%	84.7%	84.7%	86.1%	87.7%	
RNA7	unassigned	82	97.6%	97.6%	100.0%	96.3%	96.3%	ND ^c	97.6%	96.3%	97.6%	96.3%	ND ^c	97.6%	96.3%	96.3%	96.3%	97.6%	ND ^c	95.1%	96.3%	100.0%	96.3%	ND ^c	98.8%	98.8%	97.6%	97.3%	
RNA15	unassigned	31	100.0%	97.3%	100.0%	100.0%	87.1%	100.0%	87.1%	96.8%	100.0%	100.0%	100.0%	87.1%	100.0%	100.0%	100.0%	83.9%	100.0%	100.0%	87.1%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	97.2%	
RNA16	unassigned	31	96.8%	97.4%	100.0%	96.8%	96.8%	96.8%	96.8%	96.8%	93.5%	96.8%	96.8%	96.8%	96.8%	96.8%	96.8%	96.8%	96.8%	90.3%	96.8%	100.0%	96.8%	96.8%	96.8%	96.8%	96.8%	96.8%	
RNA20	unassigned	38	92.1%	100.0%	100.0%	92.1%	97.4%	97.4%	97.4%	100.0%	97.4%	97.4%	97.4%	97.4%	100.0%	97.4%	97.4%	97.4%	100.0%	100.0%	94.7%	100.0%	97.4%	97.4%	97.4%	97.4%	92.1%	97.4%	
RNA21	unassigned	36	97.2%	100.0%	100.0%	97.2%	100.0%	97.2%	100.0%	97.2%	100.0%	94.4%	97.2%	100.0%	100.0%	91.7%	94.4%	100.0%	100.0%	97.2%	100.0%	100.0%	94.4%	97.2%	97.2%	97.2%	97.2%	97.9%	
RNA22	unassigned	38	97.4%	100.0%	97.4%	94.7%	94.7%	94.7%	94.7%	94.7%	92.1%	94.7%	92.1%	94.7%	94.7%	92.1%	94.7%	92.1%	94.7%	100.0%	100.0%	97.4%	100.0%	94.7%	94.7%	94.7%	97.4%	95.5%	
total unassigned RNAs		328	94.8%	99.1%	93.9%	93.9%	99.4%	95.4%	93.9%	95.4%	95.1%	93.9%	96.3%	96.3%	94.8%	96.0%	93.3%	93.0%	96.0%	95.1%	93.9%	99.7%	96.3%	96.6%	95.7%	94.8%	94.8%	95.5%	
total small mt RNAs		2365	95.7%	98.7%	95.4%	96.0%	99.2%	96.1%	96.5%	95.2%	95.8%	96.4%	95.9%	96.6%	95.6%	96.3%	95.5%	95.7%	96.4%	95.7%	96.1%	99.5%	96.2%	96.4%	96.0%	95.9%	95.7%	96.3%	
COB ^d	identical	376	89%	98%	99%	90%	91%	91%	91%	83%	91%	83%	91%	91%	88%	83%	91%	91%	90%	82%	91%	100%	83%	91%	91%	91%	89%	90%	
	conserved		96%	99%	100%	97%	97%	97%	97%	91%	97%	92%	97%	97%	96%	91%	97%	97%	97%	92%	96%	100%	92%	97%	97%	97%	96%	96%	
COX1 ^d	identical	477 ^e	93%	96%	98%	92%	94%	94%	94%	94%	94%	94%	93%	94%	93%	94%	94%	92%	93%	94%	95%	99%	94%	94%	94%	94%	92%	94%	
	conserved		98%	99%	99%	97%	98%	98%	98%	98%	98%	97%	98%	98%	98%	98%	98%	98%	98%	98%	98%	99%	100%	98%	98%	98%	98%	98%	
COX3 ^d	identical	250 ^e	84%	86%	88%	83%																							