

Table S1. Parasite development in *A. gambiae* mosquitoes co-infected with parasites expressing GFP and mCHERRY

Parasite lines	Time point (hpi)	Number of midguts	Number of GFP parasites	Number of mCHERRY parasites	Number of GFP/mCHERRY double-positive parasites	P-value		
						GFP vs mCHERRY	GFP vs double-positive	mCHERRY vs double-positive
<i>wt_green230p</i> X <i>wt_red230p</i>	24	25	1143	962	0	0.2945	<0.001	<0.001
	48	20	428	278	358	0.0754	0.3792	0.7429
$\Delta p47_green230p$ X <i>wt_red230p</i>	24	32	0	1028	0	<0.001	1	<0.001
	48	41	0	1253	631	<0.001	<0.001	<0.05
$\Delta p48/45_green230p$ X <i>wt_red230p</i>	24	26	568	1658	0	<0.001	<0.001	<0.001
	48	49	87	1468	599	<0.001	<0.001	<0.01
<i>wt_green_{ssu}</i> X <i>wt_red230p</i>	24	30	1736	1513	0	0.3254	<0.001	<0.001
	48	25	657	628	880	0.6761	0.2400	0.1480
<i>wt_green230p</i> X <i>wt_hsp70_pred230p</i>	24	16	931	1456	0	<0.05	<0.001	<0.001
	48	11	330	333	682	1	<0.001	<0.001

This table reports parasite numbers at 24 and 48 hours post infection (hpi) from the direct feed of mosquitoes with the mCHERRY expressing parasites *wt_red230p* or *wt_hsp70_pred230p* and either of the following GFP expressing parasites; *wt_green230p* or *wt_green_{ssu}* or $\Delta p47_green230p$ or $\Delta p48/45_green230p$. A mouse was co-infected with the two parasite lines and mosquitoes were fed on this mouse. Total numbers of green, red and yellow parasites were counted from three independent biological experiments. P-values were calculated using the Mann-Whitney *U*-test.