

Supplemental Table 1. Reagents and tools table

Reagent type (species) or resource	Designation	Source or reference	Identifiers	Additional information
Biological sample (<i>Plasmodium falciparum</i>)	PID412725	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Fresh clinical isolate from the North western part of Thailand Date of collection: Apr 2013 Used in experiments for figures 1A, 1B, 1C
Biological sample (<i>Plasmodium falciparum</i>)	PID405104	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Fresh clinical isolate from the North western part of Thailand Date of collection: Apr 2013 Used in experiments for figures 1A, 1B, 1C
Biological sample (<i>Plasmodium falciparum</i>)	PID403525	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Fresh clinical isolate from the North western part of Thailand Date of collection: Apr 2013 Used in experiments for figures 1A, 1B, 1C
Biological sample (<i>Plasmodium falciparum</i>)	PID109053	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Fresh clinical isolate from the North western part of Thailand Date of collection: Apr 2013 Used in experiments for figures 1A, 1B, 1C
Biological sample (<i>Plasmodium falciparum</i>)	PID102938	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Fresh clinical isolate from the North western part of Thailand Date of collection: Apr 2013 Used in experiments for figures 1A, 1B, 1C

Biological sample (<i>Plasmodium falciparum</i>)	PID402420	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Fresh clinical isolate from the North western part of Thailand Date of collection: Apr 2013 Used in experiments for figures 1A, 1B, 1C
Biological sample (<i>Plasmodium falciparum</i>)	PID402635	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Fresh clinical isolate from the North western part of Thailand Date of collection: Apr 2013 Used in experiments for figures 1A, 1B, 1C
Biological sample (<i>Plasmodium falciparum</i>)	PID412788	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Fresh clinical isolate from the North western part of Thailand Date of collection: Apr 2013 Used in experiments for figures 1A, 1B, 1C
Biological sample (<i>Plasmodium falciparum</i>)	PID305649	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Fresh clinical isolate from the North western part of Thailand Date of collection: Apr 2013 Used in experiments for figures 1A, 1B, 1C
Biological sample (<i>Plasmodium falciparum</i>)	PID412890	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Fresh clinical isolate from the North western part of Thailand Date of collection: Apr 2013 Used in experiments for figures 1A, 1B, 1C
Biological sample (<i>Plasmodium falciparum</i>)	PID404033	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Fresh clinical isolate from the North western part of Thailand

				<p>Date of collection: May 2013</p> <p>Used in experiments for figures 1A, 1B, 1C</p>
<p>Biological sample (<i>Plasmodium falciparum</i>)</p>	PID412895	<p>Lee <i>et al.</i>, 2021. doi: 10.1016/j.ebiom.2021.103 680</p>		<p>Fresh clinical isolate from the North western part of Thailand</p> <p>Date of collection: May 2013</p> <p>Used in experiments for figures 1A, 1B, 1C</p>
<p>Biological sample (<i>Plasmodium falciparum</i>)</p>	PID412920	<p>Lee <i>et al.</i>, 2021. doi: 10.1016/j.ebiom.2021.103 680</p>		<p>Fresh clinical isolate from the North western part of Thailand</p> <p>Date of collection: May 2013</p> <p>Used in experiments for figures 1A, 1B, 1C</p>
<p>Biological sample (<i>Plasmodium falciparum</i>)</p>	PID404184	<p>Lee <i>et al.</i>, 2021. doi: 10.1016/j.ebiom.2021.103 680</p>		<p>Fresh clinical isolate from the North western part of Thailand</p> <p>Date of collection: May 2013</p> <p>Used in experiments for figures 1A, 1B, 1C</p>
<p>Biological sample (<i>Plasmodium falciparum</i>)</p>	PID412962	<p>Lee <i>et al.</i>, 2021. doi: 10.1016/j.ebiom.2021.103 680</p>		<p>Fresh clinical isolate from the North western part of Thailand</p> <p>Date of collection: May 2013</p> <p>Used in experiments for figures 1A, 1B, 1C</p>
<p>Biological sample (<i>Plasmodium falciparum</i>)</p>	PID412977	<p>Lee <i>et al.</i>, 2021. doi: 10.1016/j.ebiom.2021.103 680</p>		<p>Fresh clinical isolate from the North western part of Thailand</p> <p>Date of collection: May 2013</p> <p>Used in experiments for figures 1A, 1B,</p>

				1C
Biological sample (<i>Plasmodium falciparum</i>)	PID401322	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 1A, 1B, 1C
Biological sample (<i>Plasmodium falciparum</i>)	PID409347	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 1A, 1B, 1C
Biological sample (<i>Plasmodium falciparum</i>)	PID411792	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 1A, 1B, 1C
Biological sample (<i>Plasmodium falciparum</i>)	PID402127	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 1A, 1B, 1C
Biological sample (<i>Plasmodium falciparum</i>)	PID413003	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 1A, 1B, 1C
Biological sample (<i>Plasmodium falciparum</i>)	PID109190	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Fresh clinical isolate from the North western part of Thailand

				<p>Date of collection: May 2013</p> <p>Used in experiments for figures 1A, 1B, 1C</p>
Biological sample (<i>Plasmodium falciparum</i>)	MMA30037	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103 680		<p>Fresh clinical isolate from the North western part of Thailand</p> <p>Date of collection: May 2013</p> <p>Used in experiments for figures 1A, 1B, 1C</p>
Biological sample (<i>Plasmodium falciparum</i>)	NHP3219	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103 680		<p>Fresh clinical isolate from the North western part of Thailand</p> <p>Date of collection: May 2013</p> <p>Used in experiments for figures 1A, 1B, 1C</p>
Biological sample (<i>Plasmodium falciparum</i>)	MMA30038	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103 680		<p>Fresh clinical isolate from the North western part of Thailand</p> <p>Date of collection: May 2013</p> <p>Used in experiments for figures 1A, 1B, 1C</p>
Biological sample (<i>Plasmodium falciparum</i>)	PID413024	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103 680		<p>Fresh clinical isolate from the North western part of Thailand</p> <p>Date of collection: May 2013</p> <p>Used in experiments for figures 1A, 1B, 1C</p>
Biological sample (<i>Plasmodium falciparum</i>)	MMA40095	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103 680		<p>Fresh clinical isolate from the North western part of Thailand</p> <p>Date of collection: May 2013</p> <p>Used in experiments</p>

				for figures 1A, 1B
Biological sample (<i>Plasmodium falciparum</i>)	PID413073	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 1A, 1B
Biological sample (<i>Plasmodium falciparum</i>)	PID412793	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 1A, 1B
Biological sample (<i>Plasmodium falciparum</i>)	PID109262	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 1A, 1B
Biological sample (<i>Plasmodium falciparum</i>)	MMA30040	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 1A, 1B
Biological sample (<i>Plasmodium falciparum</i>)	PID413071	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 1A, 1B
Biological sample (<i>Plasmodium falciparum</i>)	PID403035	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments

				for figures 1D, 1E
Biological sample (<i>Plasmodium falciparum</i>)	PID408028	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 1D, 1E
Biological sample (<i>Plasmodium falciparum</i>)	RDM00036	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 1D, 1E
Biological sample (<i>Plasmodium falciparum</i>)	MMA3050	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 1D, 1E
Biological sample (<i>Plasmodium falciparum</i>)	MMA2156	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 1D, 1E
Biological sample (<i>Plasmodium falciparum</i>)	MMA4044	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 1D, 1E
Biological sample (<i>Plasmodium falciparum</i>)	MMA2104	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments

				for figures 1D, 1E
Biological sample (<i>Plasmodium falciparum</i>)	RDM00037	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 1D, 1E
Biological sample (<i>Plasmodium falciparum</i>)	NHP1450	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Clinical isolate from the North western part of Thailand AS-PCt _{1/2} = 8.87 hr; K13_N458Y Date of collection: Jun 2012 Used in experiments for figures 3A, 3B, 3C
Biological sample (<i>Plasmodium falciparum</i>)	NHP4770	Lee <i>et al.</i> 2020. doi: 10.7554/3Life.51546		Adapted from clinical isolate in SMRU AS-PCt _{1/2} = 8.07 hr; K13_A675V Date of collection: Feb 2012 Used in experiments for figures 3A, 3B, 3C
Biological sample (<i>Plasmodium falciparum</i>)	NHP2203	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Clinical isolate from the North western part of Thailand AS-PCt _{1/2} = 8.83 hr; K13_R575K Date of collection: Jun 2013 Used in experiments for figures 3A, 3B, 3C
Biological sample (<i>Plasmodium falciparum</i>)	NHP1403	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Clinical isolate from the North western part of Thailand AS-PCt _{1/2} = 7.7 hr; K13_A675V Date of collection: Feb 2012 Used in

				experiments for figures 3A, 3B, 3C
Biological sample (<i>Plasmodium falciparum</i>)	NHP1481	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Clinical isolate from the North western part of Thailand AS-PCT _{1/2} = 7.96 hr; K13_R561H Date of collection: Jul 2012 Used in experiments for figures 3A, 3B, 3C
Biological sample (<i>Plasmodium falciparum</i>)	NHP4939	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Clinical isolate from the North western part of Thailand AS-PCT _{1/2} = 8.77 hr; K13_C580Y Date of collection: Sep 2013 Used in experiments for figures 3A, 3B, 3C
Biological sample (<i>Plasmodium falciparum</i>)	NHP4722	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Clinical isolate from the North western part of Thailand AS-PCT _{1/2} = 8.6 hr; K13_A675V Date of collection: May 2011 Used in experiments for figures 3A, 3B, 3C
Biological sample (<i>Plasmodium falciparum</i>)	OHP646	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Clinical isolate from the North western part of Thailand AS-PCT _{1/2} = 1.58 hr; K13_WT Date of collection: Jul 2002 Used in experiments for figures 3A, 3B, 3C
Biological sample (<i>Plasmodium falciparum</i>)	NHP3048	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Clinical isolate from the North western part of Thailand AS-PCT _{1/2} = 1.91 hr; K13_WT

				<p>Date of collection: Aug 2008</p> <p>Used in experiments for figures 3A, 3B, 3C</p>
Biological sample (<i>Plasmodium falciparum</i>)	OHP319	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		<p>Clinical isolate from the North western part of Thailand AS-PCt_{1/2} = 1.9 hr; K13_WT</p> <p>Date of collection: Jun 2004</p> <p>Used in experiments for figures 3A, 3B, 3C</p>
Biological sample (<i>Plasmodium falciparum</i>)	NHP1106	Lee <i>et al.</i> 2020. doi: 10.7554/3Life.51546		<p>Adapted from clinical isolate in SMRU AS-PCt_{1/2} = 1.71 hr; K13_WT</p> <p>Date of collection: Oct 2008</p> <p>Used in experiments for figures 3A, 3B, 3C</p>
Biological sample (<i>Plasmodium falciparum</i>)	NHP2037	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		<p>Clinical isolate from the North western part of Thailand AS-PCt_{1/2} = 1.82 hr; K13_WT</p> <p>Date of collection: May 2008</p> <p>Used in experiments for figure 3C</p>
Biological sample (<i>Plasmodium falciparum</i>)	OHP602	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		<p>Clinical isolate from the North western part of Thailand AS-PCt_{1/2} = 1.04 hr; K13_WT</p> <p>Date of collection: Mar 2002</p> <p>Used in experiments for figure 3C</p>
Biological sample	NHP4703	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103		<p>Clinical isolate from the North</p>

<i>(Plasmodium falciparum)</i>		680		western part of Thailand AS-PCt _{1/2} = 1.2 hr; K13_WT Date of collection: Apr 2011 Used in experiments for figure 3C
Biological sample <i>(Plasmodium falciparum)</i>	NHP1386	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Clinical isolate from the North western part of Thailand AS-PCt _{1/2} = 1.67 hr; K13_WT Date of collection: Jul 2011 Used in experiments for figure 3C
Biological sample <i>(Plasmodium falciparum)</i>	OHP590	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Clinical isolate from the North western part of Thailand Date of collection: Jan 2002 AS-PCt _{1/2} = 1.23 hr; K13_WT Used in experiments for figure 3C
Biological sample <i>(Plasmodium falciparum)</i>	NHP1401	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Clinical isolate from the North western part of Thailand AS-PCt _{1/2} = 9.18 hr; K13_C580Y Date of collection: Feb 2012 Used in experiments for figure 3C
Biological sample <i>(Plasmodium falciparum)</i>	NHP1507	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Clinical isolate from the North western part of Thailand AS-PCt _{1/2} = 9.24 hr; K13_R561H Date of collection: Jun 2013

				Used in experiments for figure 3C
Biological sample (<i>Plasmodium falciparum</i>)	NHP1461	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Clinical isolate from the North western part of Thailand AS-PCt _{1/2} = 9.21 hr; K13_P441L Date of collection: Jun 2012 Used in experiments for figure 3C
Biological sample (<i>Plasmodium falciparum</i>)	NHP3127	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Clinical isolate from the North western part of Thailand AS-PCt _{1/2} = 9.11 hr; K13_R561H Date of collection: Jun 2010 Used in experiments for figure 3C
Biological sample (<i>Plasmodium falciparum</i>)	NHP1454	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Clinical isolate from the North western part of Thailand AS-PCt _{1/2} = 7.98 hr; K13_R561H Date of collection: Jun 2012 Used in experiments for figure 3C
Biological sample (<i>Plasmodium falciparum</i>)	NHP3160	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Clinical isolate from the North western part of Thailand AS-PCt _{1/2} = 8.59 hr; K13_N458Y Date of collection: Jun 2011 Used in experiments for figure 3C
Biological sample (<i>Plasmodium falciparum</i>)	NHP1455	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Clinical isolate from the North western part of Thailand

				AS-PCt _{1/2} = 8.02 hr; K13_R561H Date of collection: Jun 2012 Used in experiments for figure 3C
Biological sample (<i>Plasmodium falciparum</i>)	NHP1332	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Clinical isolate from the North western part of Thailand AS-PCt _{1/2} = 8.54 hr; K13_N458Y Date of collection: Apr 2011 Used in experiments for figure 3C
Biological sample (<i>Plasmodium falciparum</i>)	NHP4870	Lee <i>et al.</i> , 2021. doi: 10.1016/j.ebiom.2021.103680		Clinical isolate from the North western part of Thailand AS-PCt _{1/2} = 8.9 hr; K13_C580Y Date of collection: Mar 2013 Used in experiments for figure 3C
Biological sample (<i>Plasmodium vivax</i>)	BPD289	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: Apr 2013 Used in experiments for figures 2A, 2B, 2C, 2F
Biological sample (<i>Plasmodium vivax</i>)	DMA300	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: Apr 2013 Used in experiments for figures 2A, 2B, 2F
Biological sample (<i>Plasmodium</i>)	PID305596	This paper		Fresh clinical isolate from the North western part

<i>vivax</i>)				of Thailand Date of collection: Apr 2013 Used in experiments for figures 2A, 2B, 2F
Biological sample (<i>Plasmodium vivax</i>)	BPD290	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: Apr 2013 Used in experiments for figures 2A, 2B, 2F
Biological sample (<i>Plasmodium vivax</i>)	PID109105	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: Apr 2013 Used in experiments for figures 2A, 2B, 2C, 2F
Biological sample (<i>Plasmodium vivax</i>)	PID412834	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: Apr 2013 Used in experiments for figures 2A, 2B, 2C, 2F
Biological sample (<i>Plasmodium vivax</i>)	ML0157	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: Apr 2013 Used in experiments for figures 2A, 2B, 2C, 2F
Biological sample (<i>Plasmodium vivax</i>)	PID412846	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013

				Used in experiments for figures 2A, 2B, 2C, 2F
Biological sample (<i>Plasmodium vivax</i>)	PID412931	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 2A, 2B, 2C, 2F
Biological sample (<i>Plasmodium vivax</i>)	PID402054	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 2A, 2B, 2C, 2F
Biological sample (<i>Plasmodium vivax</i>)	PID412339	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 2A, 2B, 2C, 2F
Biological sample (<i>Plasmodium vivax</i>)	PID413076	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 2A, 2B, 2C, 2F
Biological sample (<i>Plasmodium vivax</i>)	PID401466	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 2A, 2B, 2C, 2F
Biological sample	PID105065	This paper		Fresh clinical isolate from the

<i>(Plasmodium vivax)</i>				North western part of Thailand Date of collection: May 2013 Used in experiments for figures 2A, 2B, 2C, 2F
Biological sample <i>(Plasmodium vivax)</i>	PID413041	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 2A, 2B, 2C, 2F
Biological sample <i>(Plasmodium vivax)</i>	BPD300	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 2A, 2B, 2C, 2F
Biological sample <i>(Plasmodium vivax)</i>	PID413066	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 2A, 2B, 2C, 2F
Biological sample <i>(Plasmodium vivax)</i>	PID413056	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 2A, 2B, 2C, 2F
Biological sample <i>(Plasmodium vivax)</i>	PID413017	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013

				Used in experiments for figures 2A, 2B, 2C, 2F
Biological sample (<i>Plasmodium vivax</i>)	BPD303	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 2A, 2B, 2C, 2F
Biological sample (<i>Plasmodium vivax</i>)	TK0768	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 2A, 2B, 2C, 2F
Biological sample (<i>Plasmodium vivax</i>)	MR163	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 2A, 2B, 2C, 2F
Biological sample (<i>Plasmodium vivax</i>)	PID406316	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 2A, 2B, 2C, 2F
Biological sample (<i>Plasmodium vivax</i>)	PID413137	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 2A, 2B, 2C, 2F
Biological	BPD0483	This paper		Fresh clinical

sample (<i>Plasmodium vivax</i>)				isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 2D, 2E
Biological sample (<i>Plasmodium vivax</i>)	PID411161	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 2D, 2E
Biological sample (<i>Plasmodium vivax</i>)	PID406704	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 2D, 2E
Biological sample (<i>Plasmodium vivax</i>)	PID112410	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 2D, 2E
Biological sample (<i>Plasmodium vivax</i>)	PID416460	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 2D, 2E
Biological sample (<i>Plasmodium vivax</i>)	PID403915	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 2D, 2E
Biological	PID112038	This paper		Fresh clinical

sample (<i>Plasmodium vivax</i>)				isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 2D, 2E
Biological sample (<i>Plasmodium vivax</i>)	PID416510	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 2D, 2E
Biological sample (<i>Plasmodium vivax</i>)	BPD491	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 2D, 2E
Biological sample (<i>Plasmodium vivax</i>)	BPD493	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 2D, 2E
Biological sample (<i>Plasmodium vivax</i>)	PID403130	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 2D, 2E
Biological sample (<i>Plasmodium vivax</i>)	PID416546	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 2D, 2E
Biological	BPD494	This paper		Fresh clinical

sample (<i>Plasmodium vivax</i>)				isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 2D, 2E
Biological sample (<i>Plasmodium vivax</i>)	PID100197	This paper		Fresh clinical isolate from the North western part of Thailand Date of collection: May 2013 Used in experiments for figures 2D, 2E
Chemical compound, drug	Amodiaquine	Sigma-Aldrich®	Cat # 1031004	
Antibody	Anti-A (ABO1) murine monoclonal antibody	TransClone® Bio-Rad	Cat # 86328	Blood group-typing (slide method: 50 µl)
Antibody	Anti-B (ABO2) murine monoclonal antibody	TransClone® Bio-Rad	Cat # 86470	Blood group-typing (slide method: 50 µl)
Chemical compound, drug	Artesunate	Sigma-Aldrich®	Cat # A3731	
Other	BD Vacutainer™ with lithium heparin	ThermoFisher Scientific	Cat # 02-657-28	
Other	Centrifuge	Sorvall®	Legend® RT Plus	
Other	CF11 cellulose powder	Sigma-Aldrich®	Cat # 318094	
Chemical compound, drug	Chloroquine	Sigma-Aldrich®	Cat # C6628	
Other	Dual CCD digital camera for microscope	Olympus®	Model DP80	
Chemical compound, drug	Ethanol	Sigma-Aldrich®	Cat # E7023	
Other	Falcon® Cell Culture Flask T25, filter cap	VWR™	Cat #29185298	
Other	Flat bottom plate, 96 well	NUNC™	Cat #44240421	
Other	Giemsa	Merck	Cat # HX60416604	
Other	Glass coverslip 22x32mm	Mariendfeld	Cat # 0101112	
Other	Glass slide	Sail brand	Cat # 7105	
Software	GraphPad Prism9.0	GraphPad		Statistical analysis
Chemical	Lactic acid	Sigma-Aldrich®	Cat # PHR 1215	

compound, drug				
Chemical compound, drug	Linoleic acid	Sigma-Aldrich®	Cat # L1626	
Chemical compound, drug	Lumefantrine	Sigma-Aldrich®	Cat # 1370746	
Chemical compound, drug	Mefloquine	Sigma-Aldrich®	Cat # 1379059	
Chemical compound, drug	Methanol	Merck	Cat#1.06009.2500	
Chemical compound, drug	Piperaquine	Sigma-Aldrich®	Cat # C7874	
Chemical compound, drug	Quinine	Sigma-Aldrich®	Cat # 69311	
Chemical compound, drug	RPMI 1640 medium	HyClone™	Cat # SH30255.01	
Chemical compound, drug	Triton™ X-100	Sigma-Aldrich®	Cat # T8787	