

**Table S1. Overview of Apicomplexan Rabs**

<b>Rab</b>	<b>T.gondii</b>	<b>N.caninum</b>	<b>C.parvum</b>	<b>T.parva</b>	<b>B.bovis</b>	<b>P.falciparum</b>
<b>1A</b>	TGME49_258130	NCLIV_028240	cgd6_3830	TP04_0644	XP_001611865.1	PFE0690c
<b>1B</b>	TGME49_214770	NCLIV_051820	cgd6_3220	TP03_0775	XP_001611213.1	PFE0625w
<b>2</b>	TGME49_312050	NCLIV_055690	cgd1_2060	TP01_0877	XP_001610821.1	PFL1500w
<b>4</b>	TGME49_257340	NCLIV_029730	cgd8_1040	no	no	no
<b>5A</b>	TGME49_267810	NCLIV_038540	cgd3_3150	TP04_0575	XP_001611807.1	PFB0500c
<b>5B</b>	TGME49_207460	NCLIV_002540	no	no	no	MAL13P1.51
<b>5C</b>	TGME49_219720	NCLIV_060890	no	TP01_0639	XP_001609456.1	PFA0335w
<b>6</b>	TGME49_310460	NCLIV_054540	cgd2_1940	TP02_0799	XP_001611576.1	PF11_0461
<b>7</b>	TGME49_248880	NCLIV_065010	cgd7_1680	TP03_0666	XP_001611307.1	PFI0155c
<b>11A</b>	TGME49_289680	NCLIV_041930	cgd4_320	TP01_1204	XP_001610582.1	PF13_0119
<b>11B</b>	TGME49_320480	NCLIV_009790	cgd7_4380	TP02_0559	XP_001610116.1	MAL13P1.205
<b>18</b>	TGME49_313190	NCLIV_056520	no	no	no	PF08_0110
<b>23</b>	TGME49_283530	NCLIV_015390	no	no	no	no
<b>8/10 like</b>	TGME49_243450	NCLIV_018180	no	no	no	no
<b>Rab-like</b>	TGME49_239855	no	no	no	no	no