

Supporting Information

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Table S1. Exported proteins of *Plasmodium falciparum* with confirmed location

Protein	Current ID	Localization	Sources	SP-PEXEL	Other domains	Species
REX1 (PFI1735c)	PF3D7_0935900	MC	(1)	No		fal
REX2 (PFI1740c)	PF3D7_0936000	MC	(2)	No	TM	fal
SBP1 (PFE0065w)	PF3D7_0501300	MC	(3)	No	TM	fal
MAHRP1 (MAL13P1.413)	PF3D7_1370300	MC	(4)	No	TM	fal
PFE0050w	PF3D7_0501000	MC	(5, 6)	Yes		fal
PfPTP2 (MAL7P1.172)	PF3D7_0731100	MC, exosomes	(6, 7)	Yes	phist	fal
PF07_0007	PF3D7_0702400	MC	(8)	No	TM	fal
PF07_0008	PF3D7_0702500	MC	(8)	No		fal
PF13_0275	PF3D7_1353100	MC		Yes	TM	fal
PFD0115c	PF3D7_0402400	MC		Yes		fal
PF08_0003	PF3D7_0830500	MC	(8)	No	TM	fal
PF11_0505	PF3D7_1148900	MC	(8)	No	TM	fal
PF08_0004	PF3D7_0830400	MC	(8)	No	SP, TM	fal, viv, kno
PFF0090w	PF3D7_0601900	MC	(8)	No	TM	fal
PFL0065w	PF3D7_1201300	MC	(8)	No	SP, TM	fal, viv
PFL2515c	PF3D7_1252300	MC	(8)	No	TM	fal
PF13_0192 (MSRP6)	PF3D7_1334500	MC	(8)	No	TM	fal
STARP (PF07_0006)	PF3D7_0702300	MC		Yes	Poss. GPI anchor	fal
PIESP2 (PFE0060w)	PF3D7_0501200	MC	(6, 9)	Yes	2 TM	fal
HYP16, Pf23 (PF10_0023)	PF3D7_1001900	MC	(9)	Yes	2 TM	fal
ETRAMP10.2 (PF10_0323)	PF3D7_1033200	MC	(9)	No	SP, TM	fal, viv, kno
PfMC-2TM, e.g., PFA0680c	PF3D7_0114100	MC, poss. RBCM	(9–12)	Yes	2 TM	fal
FEST (MAL7P1.91)	PF3D7_0718100	MC	(6, 3)	No		fal, viv, kno
TEX1 (PFF0165c)	PF3D7_0603400	MC	(14)	No	RING	fal, viv, kno
FIKK4.1 (PFD1165w)	PF3D7_0424500	MC, poss. RBCM	(15)	Yes		fal
FIKK9.3 (PFI0105c)	PF3D7_0902200	MC, poss. RBCM	(15)	Yes		fal
FIKK9.6 (PFI0120c)	PF3D7_0902500	MC, poss. RBCM	(15)	Yes		fal
FIKK12 (PFL0040c)	PF3D7_1200800	MC, poss. RBCM	(15)	Yes		fal
Pf322 (PF11_0507)	PF3D7_1149000	MC, poss. RBCM	(16–18)	No*		fal
MAL8P1.4	PF3D7_0830600	MC		Yes	phist	fal, viv
PfEFP1 (family)	PF3D7_1101800	MC	(19)	No	SP	fal
PfEFP3 (family) HYP4 [†]	PF3D7_0101100	MC	(19)	Yes	TM	fal
PfEFP4 (family) HYP5 [‡]	PF3D7_0631500	MC	(19)	Yes		fal
PfEMP1 family		MC, RBCM	(20)	Yes		fal
KAHRP (PFB0100c)	PF3D7_0202000	MC, RBCM	(21–23)	Yes		fal
PfEMP3 (PFB0095c)	PF3D7_0201900	MC, RBCM	(24)	Yes		fal
SURFIN4.1	PF3D7_0402200	MC, RBCM	(25)	No		fal
SURFIN4.2	PF3D7_0424400	MC, RBCM	(26, 27)	No		fal
STEVIOR family		MC, RBCM	(12, 28–31)	Yes		fal
A-type RIFIN family		MC, RBCM	(32–37)	Yes		fal
PFB0106c	PF3D7_0202200	MC, RBC cytoplasm	(6)	Yes		fal
PFI1780w	PF3D7_0936800	RBCM	(38)	Yes	phist	fal
MESA	PF3D7_0500800	RBCM	(39, 40)	No		fal
RESA	PF3D7_0102200	RBCM	(41)	Yes	phist, DnaJ	fal
PFE1605w	PF3D7_0532400	RBCM		Yes	phist	fal
PIESP1 (PFC0435w)	PF3D7_0310400	RBCM	(5)	No		fal, viv, kno
CLAG2, CLAG3.1, CLAG 3.2, CLAG9		Rhoptries, RBCM	(42–44)	No	SP	fal, viv, kno
MAHRP2 (PF13_0276)	PF3D7_1353200	Tethers	(45)	No	TM	fal
HSP40, type II (PFA0660w)	PF3D7_0113700	J-dots	(46)	Yes		fal
HSP40, type II (PFE0055c)	PF3D7_0501100	J-dots	(46)	Yes		fal
MSRP7 (PF13_0194)	PF3D7_1334700	RBC cytoplasm	(8)	No	SP	fal
MSRP5 (PF13_0191)	PF3D7_1334300	RBC cyt. side of PVM	(8)	No	SP	fal
PF14_0045	PF3D7_1404800	RBC cyt. side of PVM	(8)	No	SP	fal, viv, kno
PF08_0005	PF3D7_0830300	RBC cytoplasm	(8)	No	SP	fal, viv, kno
HSP70-x (MAL7P1.228)	PF3D7_0831700	J-dots	(47, 48)	No	SP	fal
REX3 (PFI1755c)	PF3D7_0936300	RBC cytoplasm	(2)	No	SP	fal

Table S1. Cont.

Protein	Current ID	Localization	Sources	SP-PEXEL	Other domains	Species
HYP17 (PF14_0758)	PF3D7_1478600	RBC cytoplasm	(6)	Yes		fal
GBP130 (PF10_0159)	PF3D7_1016300	RBC cytoplasm	(49)	Yes		fal
PF08_0137	PF3D7_0801000	RBC cytoplasm		Yes	phist	fal, viv, kno

DnaJ, Hsp70 chaperon domain; fal, *Plasmodium falciparum*; kno, *Plasmodium knowlesi*; MC, Maurer's clefts; phist, Plasmodium helical interspersed subtelomeric; PVM, parasitophorous vacuole; RING, really interesting new gene; SP, signal peptide; TM, transmembrane; viv, *Plasmodium vivax*.

*PEXEL (*Plasmodium* export element), described by Nilsson et al. (18).

[†]On PlasmoDB HYP5, in Mbengue et al. (19), HYP4.

[‡]On PlasmoDB HYP4, Mbengue et al. (19), HYP5.

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