

# **Genetic conflicts with *Plasmodium* parasites and functional constraints shape the evolution of erythrocyte cytoskeletal proteins**

Manuela Sironi<sup>1</sup> , Diego Forni<sup>1</sup> , Mario Clerici<sup>2,3</sup> , Rachele Cagliani<sup>1\*</sup>

<sup>1</sup> Bioinformatics, Scientific Institute, IRCCS E. Medea, 23842 Bosisio Parini, Lecco, Italy.

<sup>2</sup> Department of Physiopathology and Transplantation, University of Milan, 20090 Milan, Italy.

<sup>3</sup> Don C. Gnocchi Foundation ONLUS, IRCCS, 20148 Milan, Italy.





**Supplementary Table S2.** List of *Plasmodium* strains/isolates.

		Strain/Isolate	Nucleotide ID	Protein ID used to interrogate ENA
<b>KAHRP</b>	<i>P. falciparum</i>	Pf_3D7	XM_001349498	
		Pf_CAMP/Malaysia	KI927677	
		Pf_FCC1/HN	AF275687	
		Pf_FCH/4	KI927792	
		Pf_IGH-CR14	GG665204	
		Pf_IT	PFIT_0201300	
		Pf_Mali PS096	ETW51738	
		Pf_NF135/5.C10	KI926017	
		Pf_NF17	Y00060	
		Pf_NF54	KE123721	
		Pf_Palo Alto/Uganda	KI927240	
		Pf_Santa Lucia	EUT93034	
		Pf_UGT5.1	KE124379	
		Pf_Vietnam Oak-Knoll	KI925011	
	<i>P. qaboni</i>	Pg_SY75	LVLB01000003	
<i>P. reichenowi</i>	Pr_CDC	HG810763		
<b>MESA</b>	<i>P. falciparum</i>	Pf_3D7	XM_001351531	
		Pf_Dd2	DS016123	KOB85353
		Pf_FCH/4	KI928169	ETW26829
		Pf_HB3	CH672045	KOB62125
		Pf_IGH-CR14	GG665375	KNG77757
		Pf_IT	PFIT_0500900	
		Pf_Palo Alto/Uganda	AF056936	
		Pf_RAJ116	GG664386	KNC37107
		Pf_Santa Lucia	KE123479	EUT91020
	Pf_UGT5.1	KE124768	EWC73405	
<i>P. reichenowi</i>	Pr_CDC	HG810766		
<b>EMP3</b>	<i>P. falciparum</i>	Pf_3D7	XM_001349497	
		Pf_7GB	KE123587	EUR79230
		Pf_CAMP/Malaysia	KI927459	ETW63921
		Pf_IGH-CR14	GG665204	KNG76792
		Pf_IT	PFIT_0201200	
		Pf_MaliPS096_E11	KI925479	ETW51737
		Pf_MC	AH008249	
		Pf_NF135/5.C10	KI926017	ETW45260
		Pf_NF54	KE123721	EWC90929
		Pf_Palo Alto/Uganda	KI927240	ETW57704
		Pf_Santa Lucia	KE123473	EUT93033
		Pf_Tanzania (2000708)	KI926269	ETW39099
		Pf_UGT5.1	KE124379	EWC79156
		<i>P. qaboni</i>	Pg_SY75	XM_018783133
	<i>P. reichenowi</i>	Pr_CDC	HG810763	

**Note.** ENA: European Nucleotide Archive.