

Table S2: Parasite lineages detected with their names in MalAvi (shortened sequence) and in GenBank (1,063 bp fragment). Homologous sequences of parasite lineages found using the NCBI Blast search in GenBank and the Blast search of the MalAvi database. Recorded vectors on Madagascar are also mentioned (Schmid et al. 2017).

Genus	Group	lineage name MalAvi	lineage name GenBank	Acc. No.	n	match	NCBI Blast search	match	MalAvi (463-479 bp)	vectors on Madagascar	
<i>Plasmodium</i>	1	BUL07	MDG_P05	MF442541	16	97%	<i>Plasmodium</i> sp. (AF465550)	100%	BUL07 (EU810628)	<i>Uranotaenia</i> spp.	
	2	HYPMA02	MDG_P15	MF442551	1	96%	<i>Plasmodium</i> sp. 10392 (HQ724295)	99%	HYPMA01 (JN661998)		
		HYPMA01	MDG_P06	MF442542	15			100%			
	3	SYBOR11	MDG_P18	MF442554	2	96%	<i>Plasmodium</i> sp. 10392 (HQ724295)	100%	SYBOR11 (DQ368391)		
		SATOR01	MDG_P28	MF442564	1			100%	SATOR01 (KX506753)		
	4	TERMUT01	MDG_P24	MF442560	3	99%	<i>Plasmodium</i> sp. 10392 (HQ724295)	99%	PACPEC01 (AY714195)		
	5	BERMAD02	MDG_P08	MF442544	5	96%	<i>Plasmodium</i> sp. 10392 (HQ724295)	97%	MYRMYO02 (KT373875)		
	6	OXYMAD01	MDG_P29	MF442565	1	95%	<i>Plasmodium</i> sp. 072816 (HQ724298)	95%	COLL7 (DQ368376)		
	7	NEWAM01	MDG_P10	MF442546	4	95%	<i>Plasmodium gallinaceum</i> strain 8A (LN835294)	100%	NEWAM01 (KX506750)		
	8	CUCRO01	MDG_P26	MF442562	1	99%	<i>Plasmodium ashfordi</i> (KY653776)	99%	GRW02 (AF254962)		
	9	COLL4a	MDG_P23	MF442559	2	100%	<i>Plasmodium homocircumflexum</i> (KY653784)	100%	COLL4 (DQ368374)		
		COLL4b	MDG_P17	MF442553	1	99%					
	10	GRW04a	MDG_P11	MF442547	5	99%	<i>Plasmodium relictum</i> isolate (AY733090)	100%	GRW04 (AF254975)	<i>Uranotaenia</i> sp.	
		GRW04b	MDG_P01	MF442537	99				FOUMAD03 (JN661983)		
		FOUMAD03	MDG_P04	MF442540	25				100%	COSUN2 (DQ847269)	
		COSUN2	MDG_P16	MF442552	2				100%	CINCOQ01 (DQ659560)	
		CINCOQ01a	MDG_P20	MF442556	2				100%	WW4 (AF495578)	
		CINCOQ01b	MDG_P19	MF442555	2				100%	COLL7 (DQ368376)	<i>Uranotaenia</i> sp.
		WW4	MDG_P22	MF442558	1				100%	NESOU01 (KX506752)	
	11	COLL7	MDG_P02	MF442538	65	100%	<i>Plasmodium circumflexum</i> (JN164734)	100%	GRW09 (DQ060773)	<i>Anopheles mascarensis</i>	
NESOU01		MDG_P12	MF442548	5	98%	100%		BERZOS01 (KX506749)			
GRW09a		MDG_P25	MF442561	1							
12	GRW09b	MDG_P03	MF442539	58	98%	<i>Plasmodium lutzi</i> (KC138226)	99%	PITDIC02 (AY714206)			
	BERZOS01	MDG_P09	MF442545	4							
	NEWAM04	MDG_P13	MF442549	2							
	COPALB02	MDG_P21	MF442557	1							
13	WW3	MDG_P14	MF442550	2	99%	<i>Plasmodium elongatum</i> (KY653801)	100%	WW3 (AF495577)			
	GRW06	MDG_P27	MF442563	1	100%		100%	GRW06 (DQ368381)			

		FOMAD02	MDG_P07	MF442543	3	99%		99%	COPILO1 (JX021471)	
Haemoproteus	1	ZOSMAD01a	MDG_H02	MF442567	44	97%	<i>Haemoproteus</i> sp. LCLW1B19 (AY099043)	100%	ZOSMAD01 (JN661945)	
		ZOSMAD01b	MDG_H04	MF442569	26			99%		
		ZOSMAD02	MDG_H38	MF442603	3					
	2	NETYP01	MDG_H17	MF442582	2	98%	<i>Haemoproteus</i> sp. LCLW1B19 (AY099043)	97%	GERPAL01 (JX021536)	
		ACNEW01	MDG_H11	MF442576	3			100%	ACNEW01 (KX506762)	
	3	NETYP02	MDG_H14	MF442579	3	98%	<i>Haemoproteus sylvae</i> GRW1 (AY099040)	99%	BRW1 (AF254966)	
		NEBRU01	MDG_H31	MF442596	1			99%	MW1 (AF254969)	
		ACNEW02	MDG_H29	MF442594	1			99%	BRW1 (AF254966)	
		NETYP03	MDG_H07	MF442572	12			98%	ACDUM2 (DQ000320)	
	4	NEBRU02	MDG_H23	MF442588	1	96%	<i>Haemoproteus</i> sp. LA26CCVO (GQ395663)	96%	ROFI1 (DQ060769)	
		NEBRU03	MDG_H33	MF442598	1					
		NEBRU04	MDG_H36	MF442601	1					
		NEBRU05	MDG_H26	MF442591	1	97%		97%	URANG01 (JN661936)	
		NEWAM05	MDG_H10	MF442575	6	99%		96%	LEIPER02 (KM211351)	
		VANCU01	MDG_H40	MF442605	1	96%		97%	CHAFUL01 (EU810738)	
		PSEUWA01	MDG_H22	MF442587	1	97%		98%	LEIPER02 (KM211351)	
	5	RBQ11a	MDG_H30	MF442595	1	97%	<i>Haemoproteus tartakovskiyi</i> (KY653810)	100%	RBQ11 (EF117229)	
		RBQ11b	MDG_H24	MF442589	1					
		RBQ11c	MDG_H03	MF442568	28					
		PLOSAK01	MDG_H19	MF442584	2	98%		100%	PLOSAK01 (JN661931)	
		PLONE01	MDG_H41	MF442606	2			99%	VIMWE1 (-)	
		NENOT05	MDG_H13	MF442578	4			99%	VASUN1 (DQ847184)	
		NENOT04a	MDG_H16	MF442581	3			97%	100%	NENOT04 (KX506755)
	NENOT04b	MDG_H05	MF442570	22	98%					
	6	MONSHA01	MDG_H21	MF442586	2	97%	<i>Haemoproteus balmorali</i> (DQ630014)	99%	RS1 (DQ368363)	
	7	ATECRO01	MDG_H18	MF442583	2	96%	<i>Haemoproteus</i> sp. jb1.JA27 (AY733086)	97%	ZOOLUN01 (AY714150)	
		ATEPIT01	MDG_H25	MF442590	1			97%	LEIPER02 (KM211351)	
	8	COREY01	MDG_H34	MF442599	1	98%	<i>Haemoproteus minchini</i> (KU160476)	98%	AFR059 (KM056456)	
	9	FOUMAD02a	MDG_H27	MF442592	1	97%	<i>Haemoproteus</i> sp. Jb2 (AY733087)	100%	FOUMAD02 (JN661941)	
		FOUOM01	MDG_H20	MF442585	1			99%		
FOUMAD02b		MDG_H01	MF442566	42	100%					
10	ZOSSTE01	MDG_H42	MF442607	2	98%	<i>Haemoproteus minutus</i> L-TURDUS2 (DQ630013)	100%	ZOSSTE01 (EU810756)		
	NEOTEN01	MDG_H32	MF442597	1	99%		99%	MEUND3 (HQ398211)		
	SFC3	MDG_H08	MF442573	11			100%	SFC3 (DQ060771)		
	BERZOS02	MDG_H09	MF442574	8			99%	99%	SYAT03 (AY831752)	

		BERMAD03	MDG_H12	MF442577	3	98%		99%	TUMIG07 (KF314757)	
		BERZOS03	MDG_H35	MF442600	2			99%	CATUST22 (KJ584600)	
		BUL2	MDG_H06	MF442571	16			100%	BUL2 (DQ847195)	
		TYLED01	MDG_H15	MF442580	2			99%	ORORI01 (GU085192)	
		CYMAD01	MDG_H28	MF442593	1			99%	PTIVIC02 (JX021542)	
		LEPCHA01	MDG_H37	MF442602	2			97%		98%
		11	NESOPI01	MDG_H39	MF442604			1	99%	<i>Haemoproteus jenniae</i> (KY653760)
<i>Leucocytozoon</i>	1	ZOMAD01	MDG_L03	MF442610	8	96%	<i>Leucocytozoon fringillinarum</i> (FJ1686564)	100%	ZOMAD01 (JN032614)	
		ZOMAD05	MDG_L16	MF442623	1	98%		100%	ZOMAD05 (JN032621)	
		HYPMA03	MDG_L17	MF442624	1			99%	ZOBOR03 (JN032613)	
	2	VANCU02	MDG_L12	MF442619	1	96%	<i>Leucocytozoon gentili</i> (DQ451435)	99%	SFC7 (DQ847233)	
		MOFLA01	MDG_L06	MF442613	1	98%		100%	MOFLA01 (KX506756)	
		RECOB3	MDG_L11	MF442618	1	100%		100%	RECOB3 (DQ847221)	
		FOMAD01	MDG_L01	MF442608	16	98%		100%	FOMAD01 (JN032605)	
		NESOU02	MDG_L08	MF442615	1	99%		99%	NENOT01 (JN032629)	
	3	HYPMA04	MDG_L04	MF442611	8	98%	<i>Leucocytozoon squamatus</i> (DQ451432)	98%	PARUS8 (EU676194)	
	4	ALMAD01	MDG_L05	MF442612	1	99%	<i>Leucocytozoon</i> sp. BAOW5909 (EU627792)	99%	BNOW04 (EU627792)	
		BRALEP01	MDG_L15	MF442622	1	98%		98%	TABI09 (-)	
		CALMAD01	MDG_L10	MF442617	1			100%	CALMAD01 (KX506757)	
		CALMAD02	MDG_L13	MF442620	1			99%	PLONIG06 (KT376955)	
		NEWAM03	MDG_L07	MF442614	1			100%	NEWAM03 (KX506758)	
		PHICA01	MDG_L09	MF442616	2			99%	PLONIG06 (KT376955)	
		HYPMA05	MDG_L02	MF442609	12			99%	PARUS7 (DQ847228)	
	5	ACCMAD01	MDG_L14	MF442621	2		99%	<i>Leucocytozoon toddi</i> (AY684973)	99%	ACCFRA01 (AY762076)