

Appendix 1. Avian hosts, geographical origin, frequency of detection and GenBank accession numbers for parasite mitochondrial (cyt *b*) lineages. GenBank numbers for sequences obtained from previously published data are in italics.

lineage	host information					n	length (bp)	GenBank no.
	family	genus	species	common name	locality ^a			
1	Fringillidae	<i>Carpodacus</i>	<i>mexicanus</i>	House finch	USA	1	753	DQ659538
1	Parulidae	<i>Seiurus</i>	<i>aurocapillus</i>	Ovenbird	BER	1	256	DQ838987
1	Passeridae	<i>Passer</i>	<i>domesticus</i>	House sparrow	USA	4	533	DQ838988
1	Troglodytidae	<i>Thryomanes</i>	<i>bewickii</i>	Bewick's wren	USA	1	533	DQ838989
1	Cardinalidae	<i>Cardinalis</i>	<i>cardinalis</i>	Northern cardinal	USA	28	533	DQ838990
1	Emberizidae	<i>Melospiza</i>	<i>georgiana</i>	Swamp sparrow	USA	-	551	<i>AY640130</i>
1	Hirundinidae	<i>Tachycineta</i>	<i>bicolor</i>	Tree swallow	USA	-	551	<i>AY640130</i>
2	Icteridae	<i>Molothrus</i>	<i>ater</i>	Brown-headed cowbird	USA	1	753	DQ659539
2	Fringillidae	<i>Carpodacus</i>	<i>mexicanus</i>	House finch	USA	2	653	DQ659540
3	Fringillidae	<i>Carpodacus</i>	<i>mexicanus</i>	House finch	USA	1	753	DQ659541
4	Parulidae	<i>Geothlypis</i>	<i>trichas</i>	Common yellowthroat	USA	1	753	<i>DQ659542</i>
5	Muscicapidae	<i>Luscinia</i>	<i>svecica</i>	Bluethroat	NOR	1	753	DQ659543
5	Phasianidae	<i>Phasianus</i>	<i>colchicus</i>	Ring-necked pheasant	KOR	1	533	DQ838991
5	Motacillidae	<i>Anthus</i>	<i>hodgsoni</i>	Olive-backed pipit	KOR	2	753	DQ838992
5	Corvidae	<i>Corvus</i>	<i>corone</i>	Carrion crow	JAP	1	433	DQ659544
6	Icteridae	<i>Icterus</i>	<i>cayanensis</i>	Epaulet oriole	URU	1	753	DQ659545
6	Emberizidae	<i>Poospiza</i>	<i>lateralis</i>	Red-rumped warbling finch	URU	1	256	DQ838993
6	Emberizidae	<i>Loxigilla</i>	<i>noctis</i>	Lesser Antillean bullfinch	DOM	-	312	AF465558
6	Troglodytidae	<i>Troglodytes</i>	<i>aedon</i>	House wren	URU	1	515	DQ838994
7	Parulidae	<i>Icteria</i>	<i>virens</i>	Yellow-breasted chat	USA	2	753	DQ659546
7	Pachycephalidae	<i>Eulacestoma</i>	<i>nigropectus</i>	Wattled ploughbill	PNG	-	533	<i>AY714201</i>
8	Parulidae	<i>Icteria</i>	<i>virens</i>	Yellow-breasted chat	USA	2	753	<i>DQ659547</i>
9	Muscicapidae	<i>Cercotrichas</i>	<i>podobe</i>	Black scrub-robin	NIG	-	478	AF495549
10	Tyrannidae	<i>Myiarchus</i>	<i>tyrannulus</i>	Brown-crested flycatcher	USA	1	753	DQ659548
11	Parulidae	<i>Geothlypis</i>	<i>trichas</i>	Common yellowthroat	USA	1	753	DQ659549
11	Passeridae	<i>Passer</i>	<i>domesticus</i>	House sparrow	USA	-	533	AF069611
11	Icteridae	<i>Gnorimopsar</i>	<i>chopi</i>	Chopi blackbird	URU	2	322	DQ838995
11	Turdidae	<i>Turdus</i>	<i>rufiventris</i>	Rufous-bellied thrush	URU	1	313	DQ838996
11	Troglodytidae	<i>Troglodytes</i>	<i>aedon</i>	House wren	URU	3	753	DQ838997

11	Icteridae	<i>Pseudoleistes</i>	<i>guirahuro</i>	Yellow-rumped marshbird	URU	1	533	DQ838998
11	Thraupidae	<i>Tangara</i>	<i>preciosa</i>	Chestnut-backed tanager	URU	1	533	DQ838999
11	Thraupidae	<i>Stephanophorus</i>	<i>diadematus</i>	Diademed tanager	URU	1	335	DQ839000
12	Emberizidae	<i>Emberizoides</i>	<i>herbicola</i>	Wedge-tailed grass-finch	GUY	1	753	DQ659550
12	Icteridae	<i>Sturnella</i>	<i>militaris</i>	Red-breasted blackbird	GUY	1	256	DQ839001
13	Icteridae	<i>Sturnella</i>	<i>supercilliaris</i>	White-browed blackbird	URU	2	753	DQ659551
14	Turdidae	<i>Alethe</i>	<i>diademata</i>	Fire-crested alethe	GAB	4	753	DQ659552
15	Drepanididae	<i>Hemignathus</i>	<i>virens</i>	Hawaii amakihi	HI	12	753	DQ659553
15	Drepanididae	<i>Hemignathus</i>	<i>flavus</i>	Oahu amakihi	HI	6	533	DQ839002
15	Drepanididae	<i>Himatione</i>	<i>sanguinea</i>	Apapane	HI	4	315	DQ839003
15	Drepanididae	<i>Vestiaria</i>	<i>coccinea</i>	I'iwi	HI	2	338	DQ839004
15	Emberizidae	<i>Carpodacus</i>	<i>mexicanus</i>	House finch	HI	2	351	DQ839005
15	Emberizidae	<i>Loxigilla</i>	<i>violacea</i>	Greater Antillean bullfinch	DOM	1	533	DQ839006
15	Estrildidae	<i>Lonchura</i>	<i>punctulata</i>	Nutmeg mannikin	HI	1	351	DQ839007
15	Estrildidae	<i>Lonchura</i>	<i>malacca</i>	Black-headed munia	IND	1	256	DQ839008
15	Estrildidae	<i>Neochmia</i>	<i>temporalis</i>	Red-browed firetail	FP	2	753	DQ839009
15	Mimidae	<i>Dumetella</i>	<i>carolinensis</i>	Grey catbird	BER	7	533	DQ839010
15	Mimidae	<i>Mimus</i>	<i>gilvus</i>	Tropical mockingbird	GRE	1	533	DQ839011
15	Muscicapidae	<i>Cercomela</i>	<i>fusca</i>	Indian chat	IND	1	351	DQ839012
15	Muscicapidae	<i>Humblotia</i>	<i>flavirostris</i>	Grand Comoro flycatcher	GCO	1	295	DQ839013
15	Muscicapidae	<i>Luscinia</i>	<i>svecica</i>	Bluethroat	SWE	5	478	DQ839014
15	Nectariniidae	<i>Nectarinia</i>	<i>humbloti</i>	Humblot's sunbird	GCO	1	295	DQ839015
15	Nectariniidae	<i>Nectarinia</i>	<i>notata</i>	Long-billed green sunbird	GCO	1	533	DQ839016
15	Nectariniidae	<i>Cinnyris</i>	<i>sovimanga</i>	Souimanga sunbird	MAD	1	91	DQ839017
15	Paradoxornithidae	<i>Paradoxornis</i>	<i>webbianus</i>	Vinous-throated parrotbill	KOR	1	91	DQ839018
15	Passeridae	<i>Passer</i>	<i>domesticus</i>	House sparrow	BER, HI, IND	67	533	DQ839019
15	Ploceidae	<i>Foudia</i>	<i>madagascarensis</i>	Red fody	GCO, MAD, PRA	5	533	DQ839020
15	Ploceidae	<i>Foudia</i>	<i>eminentissima</i>	Red-headed fody	GCO	2	533	DQ839021
15	Ploceidae	<i>Foudia</i>	<i>flavicans</i>	Rodrigues fody	ROD	1	533	DQ839022
15	Ploceidae	<i>Quelea</i>	<i>quelea</i>	Red-billed quelea	SAF	1	295	DQ839023
15	Sturnidae	<i>Acridotheres</i>	<i>tristis</i>	Common myna	AUS, HI, IND, FP	19	533	DQ839024
15	Sturnidae	<i>Sturnus</i>	<i>vulgaris</i>	European starling	BER	13	533	DQ839025
15	Sylviidae	<i>Acrocephalus</i>	<i>arundinaceus</i>	Greet reed-warbler	BEL,ISR,NIG, SWE,UKR	133	478	DQ839026
15	Sylviidae	<i>Acrocephalus</i>	<i>baeticatus</i>	African reed-warbler	NIG	1	478	DQ839027
15	Sylviidae	<i>Acrocephalus</i>	<i>gracilirostris</i>	Lesser swamp-warbler	NIG	1	478	DQ839028
15	Sylviidae	<i>Acrocephalus</i>	<i>schoenobaenus</i>	Sedge warbler	NIG	1	478	DQ839029

15	Sylviidae	<i>Acrocephalus</i>	<i>mendanae</i>	Marquesan reed-warbler	FP	9	753	DQ839030
15	Sylviidae	<i>Hippolais</i>	<i>pallida</i>	Olivaceous warbler	NIG	1	478	DQ839031
15	Sylviidae	<i>Megalurus</i>	<i>palustris</i>	Striated grassbird	IND	1	351	DQ839032
15	Sylviidae	<i>Orthotomus</i>	<i>cuculatus</i>	Common tailorbird	IND	1	351	DQ839033
15	Timaliidae	<i>Stachyris</i>	<i>pyrrhops</i>	Black-chinned babbler	IND	1	351	DQ839034
15	Zosteropidae	<i>Zosterops</i>	<i>borbonicus</i>	Mascarene white-eye	MAU, REU	3	533	DQ839035
15	Zosteropidae	<i>Zosterops</i>	<i>mouroniensis</i>	Comoro white-eye	GCO	2	295	DQ839036
15	Zosteropidae	<i>Zosterops</i>	<i>maderaspatanus</i>	Madagascar white-eye	GCO, MAD, MAY	5	533	DQ839037
15	Zosteropidae	<i>Zosterops</i>	<i>choloronothos</i>	Mauritius white-eye	MAU	1	121	DQ839038
15	Zosteropidae	<i>Zosterops</i>	<i>lateralis</i>	Silvereye	FP	1	351	DQ839039
16	Fringillidae	<i>Linurgus</i>	<i>olivaceus</i>	Oriole finch	BIO	1	753	DQ659554
16	Fringillidae	<i>Serinus</i>	<i>atrogularis</i>	Black-throated canary	SAF	2	753	DQ839040
16	Ploceidae	<i>Ploceus</i>	<i>velatus</i>	African masked-weaver	BOT, SAF	3	653	DQ659555
16	Ploceidae	<i>Quelea</i>	<i>quelea</i>	Red-billed quelea	SAF, ZIM	19	533	DQ839041
16	Ploceidae	<i>Euplectes</i>	<i>orix</i>	Red bishop	SAF	1	295	DQ839042
16	Cisticolidae	<i>Cisticola</i>	<i>fulvicapillus</i>	Piping cisticola	SAF	1	295	DQ839043
16	Sulidae	<i>Sula</i>	<i>capensis</i>	Cape gannet	SAF	1	533	DQ659556
17	Monarchidae	<i>Myiagra</i>	<i>alecto</i>	Shining flycatcher	PNG	2	753	DQ659557
18	Ploceidae	<i>Ploceus</i>	<i>velatus</i>	African masked weaver	SAF	1	753	DQ659558
18	Ploceidae	<i>Quelea</i>	<i>quelea</i>	Red-billed quelea	BOT, SAF, ZIM	15	533	DQ839044
19	Ploceidae	<i>Quelea</i>	<i>quelea</i>	Red-billed quelea	BOT	1	351	DQ659559
20	Nectariniidae	<i>Cinnyris</i>	<i>coquerellii</i>	Mayotte sunbird	MAY	3	753	DQ659560
20	Nectariniidae	<i>Cinnyris</i>	<i>sovimanga</i>	Souimanga sunbird	MAD	1	533	DQ839045
21	Ploceidae	<i>Foudia</i>	<i>seychellarum</i>	Seychelles Fody	FRE	1	753	DQ659561
21	Nectariniidae	<i>Cinnyris</i>	<i>dussumieri</i>	Seychelles sunbird	FRE	1	533	DQ839046
22	Sylviidae	<i>Acrocephalus</i>	<i>arundinaceus</i>	Great reed warbler	SWE	1	753	DQ659562
22	Sylviidae	<i>Sylvia</i>	<i>atricapilla</i>	Blackcap	SPA	-	478	AF495571
22	Passeridae	<i>Passer</i>	<i>luteus</i>	Sudan golden-sparrow	NIG	-	478	AF495571
22	Fringillidae	<i>Carduelis</i>	<i>chloris</i>	European greenfinch	UKR	1	456	DQ659563
22	Paridae	<i>Parus</i>	<i>major</i>	Great tit	KOR	1	351	DQ839047
22	Paridae	<i>Sittiparus</i>	<i>varius</i>	Varied tit	KOR	1	256	DQ839048
22	Corvidae	<i>Garrulus</i>	<i>glandarius</i>	Eurasian jay	KOR	1	753	DQ839049
22	Sturnidae	<i>Acridotheres</i>	<i>tristis</i>	Common myna	IND, NZ	3	256	DQ839050
23	Passeridae	<i>Passer</i>	<i>melanurus</i>	Mossie	SAF	1	753	DQ659564
24	Motacillidae	<i>Motacilla</i>	<i>alba</i>	White wagtail	KOR	1	753	DQ659565
24	Sylviidae	<i>Acrocephalus</i>	<i>orientalis</i>	Oriental reed warbler	KOR	1	256	DQ839051

25	Ploceidae	<i>Quelea</i>	<i>quelea</i>	Red-billed quelea	SAF	1	753	DQ659566
26	Zosteropidae	<i>Zosterops</i>	<i>senegalensis</i>	African yellow white-eye	SAF	1	753	DQ659567
27	Nectariniidae	<i>Cyanomitra</i>	<i>oritis</i>	Cameroon sunbird	BIO	1	753	DQ659568
27	Ploceidae	<i>Ploceus</i>	<i>melanogaster</i>	Black-billed weaver	BIO	1	517	DQ839052
28	Alaudidae	<i>Alauda</i>	<i>arvensis</i>	Sky lark	KOR	1	753	DQ659569
28	Paridae	<i>Parus</i>	<i>major</i>	Great tit	KOR	2	256	DQ839053
29	Nectariniidae	<i>Cyanomitra</i>	<i>olivacea</i>	Olive sunbird	GAB, CAM, PRI	6	753	DQ659570
29	Nectariniidae	<i>Cinnyris</i>	<i>chloropygius</i>	Olive-bellied sunbird	GAB	3	533	DQ839054
30	Ploceidae	<i>Ploceus</i>	<i>nigerrimus</i>	Vieillot's weaver	GAB	1	753	DQ659571
30	Ploceidae	<i>Ploceus</i>	<i>nigricollis</i>	Black-necked weaver	GAB	1	533	DQ839055
30	Muscicapidae	<i>Copsychus</i>	<i>malabaricus</i>	White-rumped shama	BUR	1	533	DQ839056
30	Muscicapidae	<i>Copsychus</i>	<i>saularis</i>	Oriental magpie-robin	BUR	1	533	DQ839057
30	Estrildidae	<i>Lonchura</i>	<i>punctulata</i>	Nutmeg manikin	IND	1	351	DQ839058
30	Monarchidae	<i>Hypothymis</i>	<i>azurrea</i>	Black-naped monarch	BUR	1	295	DQ839059
31	Ploceidae	<i>Foudia</i>	<i>madagascariensis</i>	Red fody	MAD, MAY, MAU	5	753	DQ659572
31	Ploceidae	<i>Ploceus</i>	<i>grandis</i>	Giant weaver	SAO	2	533	DQ839060
31	Ploceidae	<i>Ploceus</i>	<i>princeps</i>	Principe golden-weaver	PRI	1	491	DQ839061
32	Rhipiduridae	<i>Rhipidura</i>	<i>rufifrons</i>	Rufous fantail	MAR	2	753	DQ659573
33	Monarchidae	<i>Monarcha</i>	<i>kaupi</i>	Pied monarch	AUS	3	753	DQ659574
33	Monarchidae	<i>Monarcha</i>	<i>trivirgatus</i>	Spectacled monarch	AUS	3	533	AY714199
33	Petroicidae	<i>Heteromyias</i>	<i>albispecularis</i>	Grey-headed robin	AUS	1	533	AY714199
34	Ploceidae	<i>Ploceus</i>	<i>princeps</i>	Principe golden-weaver	PRI	1	753	DQ659575
34	Nectariniidae	<i>Hedydipna</i>	<i>collaris</i>	Collared sunbird	GAB	1	533	DQ839062
34	Nectariniidae	<i>Hedydipna</i>	<i>platura</i>	Pygmy sunbird	NIG	-	478	AF495566
34	Sturnidae	<i>Lamprotornis</i>	<i>splendidus</i>	Splendid glossy-starling	PRI	1	518	DQ839063
35	Muscicapidae	<i>Fraseria</i>	<i>cinerascens</i>	White-browed forest flycatcher	GAB	1	753	DQ659576
36	Nectariniidae	<i>Cinnyris</i>	<i>chloropygius</i>	Olive-bellied sunbird	CAM	1	533	DQ659577
37	Sylviidae	<i>Phylloscopus</i>	<i>trochilus</i>	Willow warbler	SWE	1	753	DQ659578
38	Nectariniidae	<i>Cyanomitra</i>	<i>olivacea</i>	Olive sunbird	GAB	1	753	DQ659579
39	Ptilonorhynchidae	<i>Scenopoeetes</i>	<i>dentirostris</i>	Tooth-billed bowerbird	AUS	3	753	DQ659580
39	Ptilonorhynchidae	<i>Ailuroedus</i>	<i>melanotis</i>	Spotted catbird	AUS	2	533	AY714205
39	Acanthizidae	<i>Sericornis</i>	<i>magnirostris</i>	Large-billed scrubwren	AUS	2	533	AY714205
39	Meliphagidae	<i>Lichenostomus</i>	<i>frenatus</i>	Bridled honeyeater	AUS	1	533	AY714205
39	Monarchidae	<i>Monarcha</i>	<i>trivirgatus</i>	Spectacled monarch	AUS	1	533	AY714205
39	Pachycephalidae	<i>Colluricincla</i>	<i>boweri</i>	Bower's shrike-thrush	AUS	1	533	AY714205

40	Aegithinidae	<i>Aegithina</i>	<i>tiphia</i>	Common iora	BUR	2	753	DQ659581
41	Turdidae	<i>Turdus</i>	<i>migratorius</i>	American robin	USA	-	753	AY099033
42	Emberizidae	<i>Emberiza</i>	<i>rutila</i>	Chestnut bunting	KOR	1	753	DQ659582
42	Emberizidae	<i>Emberiza</i>	<i>spodocephala</i>	Black-faced bunting	KOR	2	533	DQ839064
43	Charadriidae	<i>Pluvialis</i>	<i>fulva</i>	Pacific Golden Plover	HI	1	753	DQ659583
43	Fringillidae	<i>Carpodacus</i>	<i>erythrinus</i>	Common rosefinch	KOR	1	753	DQ839065
43	Paridae	<i>Parus</i>	<i>major</i>	Great tit	SWE	-	413	AF254978
44	Paridae	<i>Parus</i>	<i>major</i>	Great tit	SWE	-	447	AF495564
45	Turdidae	<i>Turdus</i>	<i>philomelos</i>	Song thrush	SWE	-	472	AF495576
46	Cisticolidae	<i>Camaroptera</i>	<i>brachyura</i>	Green-backed camaroptera	GAB	1	753	DQ659584
46	Dicruridae	<i>Dicrurus</i>	<i>adsimilis</i>	Fork-tailed drongo	GAB	1	334	DQ839066
46	Estrildidae	<i>Pyrenestes</i>	<i>ostrinus</i>	Black-bellied seedcracker	GAB	1	335	DQ839067
46	Estrildidae	<i>Estrilda</i>	<i>astrild</i>	Common waxbill	TAN	1	533	DQ839068
46	Estrildidae	<i>Spermophaga</i>	<i>haematina</i>	Western bluebill	GAB	1	334	DQ839069
46	Muscicapidae	<i>Cossypha</i>	<i>niveicapilla</i>	Snowy-crowned robin-chat	GAB	1	333	DQ839070
46	Muscicapidae	<i>Muscicapa</i>	<i>olivascens</i>	Olivaceous flycatcher	GAB	1	533	DQ839071
46	Muscicapidae	<i>Stiphornis</i>	<i>erythrothorax</i>	Forest robin	GAB	2	533	DQ839072
46	Nectariniidae	<i>Chalcomitra</i>	<i>rubescens</i>	Green-throated sunbird	GAB	1	334	DQ839073
46	Nectariniidae	<i>Cyanomitra</i>	<i>olivacea</i>	Olive sunbird	GAB	1	334	DQ839074
46	Nectariniidae	<i>Hedydipna</i>	<i>collaris</i>	Collared sunbird	GAB	1	533	DQ839075
46	Ploceidae	<i>Malimbus</i>	<i>nitens</i>	Grey's malimbe	GAB	1	334	DQ839076
46	Ploceidae	<i>Ploceus</i>	<i>cucullatus</i>	Village weaver	GAB	1	503	DQ839077
46	Pycnonotidae	<i>Andropadus</i>	<i>gracilis</i>	Grey greenbul	GAB	1	533	DQ839078
46	Pycnonotidae	<i>Andropadus</i>	<i>virens</i>	Little greenbul	CAM	2	533	DQ839079
46	Pycnonotidae	<i>Bleda</i>	<i>notata</i>	Lesser bristlebill	GAB	1	334	DQ839080
46	Pycnonotidae	<i>Bleda</i>	<i>syndactyla</i>	Common bristlebill	GAB	2	334	DQ839081
46	Pycnonotidae	<i>Criniger</i>	<i>calurus</i>	Red-tailed greenbul	GAB	1	533	DQ839082
46	Pycnonotidae	<i>Criniger</i>	<i>chloronotus</i>	Eastern bearded greenbul	GAB	1	334	DQ839083
46	Pycnonotidae	<i>Nicator</i>	<i>chloris</i>	Yellow-spotted nicator	GAB	1	315	DQ839084
46	Rhipiduridae	<i>Rhipidura</i>	<i>rufifrons</i>	Rufous fantail	MAR	2	753	DQ839085
46	Turdidae	<i>Alethe</i>	<i>poliocephala</i>	Brown-chested alethe	GAB	4	533	DQ839086
46	Turdidae	<i>Neocossyphus</i>	<i>fraseri</i>	Rufous thrush	GAB	4	533	DQ839087
46	Turdidae	<i>Neocossyphus</i>	<i>poensis</i>	White-tailed ant-thrush	GAB	2	334	DQ839088
46	Turdidae	<i>Neocossyphus</i>	<i>rufus</i>	Red-tailed ant-thrush	GAB	1	533	DQ839089
46	Turdidae	<i>Zoothera</i>	<i>cameronensis</i>	Black-eared ground-thrush	GAB	1	533	DQ839090
46	Turdidae	<i>Cyanomitra</i>	<i>olivacea</i>	Olive sunbird	GAB	1	533	DQ839091
47	Timaliidae	<i>Pomatorhinus</i>	<i>ferruginosus</i>	Coral-billed scimitar-	BUR	1	753	DQ659585

				babbler				
47	Timaliidae	<i>Alcippe</i>	<i>morrisonia</i>	Grey-cheeked fulvetta	BUR	1	295	DQ839092
47	Muscicapidae	<i>Cinclidium</i>	<i>leucurum</i>	White-tailed robin	BUR	1	533	DQ839093
48	Muscicapidae	<i>Niltava</i>	<i>sundara</i>	Rufous-bellied niltava	BUR	1	533	DQ659586
49	Nectariniidae	<i>Cyanomitra</i>	<i>olivacea</i>	Olive sunbird	GAB	1	533	DQ659587
50	Icteridae	<i>Quiscalus</i>	<i>quiscula</i>	Common grackle	USA	-	753	AY099031
50	n/a	<i>n/a</i>	<i>n/a</i>	n/a	VIE	-	753	AY099029
51	Strigidae	<i>Ninox</i>	<i>scutulata</i>	Brown hawk-owl	SIN	-	753	AY099035
52	Ardeidae	<i>Ardea</i>	<i>herodias</i>	Great blue heron	USA	1	753	DQ659588
53	Columbidae	<i>Zenaida</i>	<i>macroura</i>	Mourning dove	USA	-	753	AY099032
53	Spheniscidae	<i>Spheniscus</i>	<i>demursus</i>	African penguin	SAF	1	335	DQ659589
54	Paridae	<i>Parus</i>	<i>major</i>	Great tit	SWE	1	753	DQ659590
55	n/a	<i>n/a</i>	<i>n/a</i>	n/a	n/a	-	478	AY178904
56	Sylviidae	<i>Acrocephalus</i>	<i>arundinaceus</i>	Great reed warbler	SWE	1	753	DQ659591
57	Sylviidae	<i>Acrocephalus</i>	<i>arundinaceus</i>	Great reed warbler	SWE	-	753	AY099040
58	Paridae	<i>Cyanistes</i>	<i>caeruleus</i>	Blue tit	SWE	-	753	AY099045
59	Alcedinidae	<i>Alcedo</i>	<i>leucogaster</i>	White-bellied kingfisher	GAB	1	753	DQ659592

^aAUS, Australia; BER, Bermuda; BEL, Belarus; BIO, Bioko; BOT, Botswana; BUR, Burma; CAM, Cameroon; DOM, Dominican Republic; FRE, Fregate; FP, French Polynesia; GAB, Gabon; GCO, Grand Comore; GRE, Grenada; GUY, Guyana; HI, Hawaii; IND, India; ISR, Israel; KOR, Korea; MAD, Madagascar; MAU, Mauritius; MAR, Marianas; MAY, Mayotte; NIG, Nigeria; NOR, Norway; NZ, New Zealand; PNG, Papua New Guinea; PRA, Praslin; PRI, Principe; REU, Reunion; ROD, Rodrigues Island; SAF, South Africa; SAO, Sao Tome; SIN, Singapore; SWE, Sweden; TAN, Tanzania; UKR, Ukraine; URU, Uruguay; USA, United States; VIE, Vietnam; ZIM, Zimbabwe

Appendix 2. Avian hosts, geographical origin, frequency of detection, associated mitochondrial lineage and GenBank accession numbers for DHFR-TS haplotypes shown in figure 3. DHFR-TS did not amplify from all samples for which a mitochondrial lineage was recovered.

lineage	host	location ^a	n	associated mtDNA lineage	GenBank no.
A	Yellow-breasted chat	USA	2	7	DQ659597
A	Yellow-breasted chat	USA	3	8	DQ659597
B	House finch	USA	1	1	DQ659598
B	Brown-headed cowbird	USA	1	2	DQ839094
B	Bluethroat	NOR	1	5	DQ839095
B	Carrion crow	JAP	1	5	DQ839096
B	Olive-backed pipit	KOR	2	5	DQ839097
B	Ring-necked pheasant	KOR	1	5	DQ839098
B	Epaulet oriole	URU	1	6	DQ839099
B	Red-rumped warbling finch	URU	1	6	DQ839100
B	House wren	URU	1	6	DQ839101
C	Northern cardinal	USA	2	1	DQ659599
D	Chestnut-backed tanager	URU	1	11	DQ659600
D	Wedge-tailed grass-finch	GUY	1	12	DQ839102
E	White-browed blackbird	URU	1	13	DQ659601
F	Fire-crested alethe	GAB	2	14	DQ659602
G	Hawaii amakihi	HI	4	15	DQ659603
G	Gray catbird	BER	4	15	DQ839103
G	Greater Antillean bullfinch	DOM	1	15	DQ839104
G	Red-browed firetail	FP	2	15	DQ839105
G	Marquesan reed-warbler	FP	2	15	DQ839106
G	European starling	BER	4	15	DQ839107
G	House sparrow	BER, HI	7	15	DQ839108

G	Iiwi	HI	2	15	DQ839109
G	Oahu amakihi	HI	1	15	DQ839110
G	Shining flycatcher	PNG	1	17	DQ839111
G	African masked weaver	SAF	1	18	DQ839112
G	Red-billed quelea	SAF	1	18	DQ839113
G	African masked weaver	SAF	1	16	DQ839112
G	Oriole finch	BIO	1	16	DQ839114
G	Black-billed weaver	BIO	1	27	DQ839115
G	Sky lark	KOR	1	28	DQ839116
G	Rufous fantail	MAR	2	32	DQ839117
G	Spectacled monarch	AUS	2	33	DQ839118
H	Madagascar white-eye	GCO, MAD	4	15	DQ659604
I	Black-naped monarch	BUR	1	30	DQ659605
J	Red fody	MAD, MAY	2	31	DQ659606
K	White-rumped shama	BUR	1	30	DQ659607
L	Collared sunbird	GAB	1	34	DQ659608
M	Vieillot's weaver	GAB	1	30	DQ659609
M	Giant weaver	SAO	1	31	DQ839119
M	Principe golden-weaver	PRI	1	31	DQ839120
N	Eurasian jay	KOR	1	22	DQ659610
N	Great tit	KOR	1	22	DQ839121
N	White wagtail	KOR	1	24	DQ839122
N	Blackcap	SPA	1	22	AY560372
O	Mossie	SAF	1	23	DQ659611
P	Olive sunbird	GAB	1	38	DQ659612
Q	n/a – <i>Plasmodium gallinaceum</i>	n/a	-	-	AY033582
R	Bower's shrike thrush	AUS	1	39	DQ659613
R	Bridled honeyeater	AUS	1	39	DQ839123
R	Spotted catbird	AUS	1	39	DQ839124
S	Common iora	BUR	1	40	DQ659614
T	Black-eared ground thrush	GAB	1	46	DQ659615

T	Little greenbul	CAM	1	46	DQ839125
T	Rufous fantail	MAR	2	46	DQ839126
U	Common rosefinch	KOR	1	43	DQ659616
U	Black-faced bunting	KOR	2	42	DQ839127
U	Chestnut bunting	KOR	1	42	DQ839128
V	Mourning dove	USA	1	53	DQ659617
W	Great reed-warbler	SWE	-	56	AY560373
X	Blue tit	SWE	-	58	AY560369

^aAUS, Australia; BER, Bermuda; BIO, Bioko; BUR, Burma; CAM, Cameroon; DOM, Dominican Republic; FP, French Polynesia; GAB, Gabon; GCO, Grand Comore; GUY, Guyana; HI, Hawaii; JAP, Japan; KEN, Kenya; KOR, Korea; MAD, Madagascar; MAR, Marianas; MAY, Mayotte; NOR, Norway; PNG, Papua New Guinea; PRI, Principe; SAF, South Africa; SAO, Sao Tome; URU, Uruguay; USA, United States