

**Table 3. Samples used in the study.** The classification follows Ridgely and Tudor [3] for typical antbirds, and Irestedt et al. [1] for families. Abbreviations: AHMN = American Museum of Natural History, New York; FMNH = Field Museum of Natural History, Chicago; LSUMZ = Louisiana State University, Museum of Natural Science; NRM = Swedish Museum of Natural History; ZMCU = Zoological Museum of the University of Copenhagen. References: (1) Irestedt et al. [1]; (2) Fjeldså et al. [45]; (3) Johansson et al. [65]; Fjeldså et al. [66].

Species	Sample no.	Cytochrome <i>b</i>	Myoglobin	G3PDH
Family <i>Thamnophilidae</i>				
<i>Frederickena unduligera</i>	ZMCU S1776	AY676934	AY676981	AY677028
<i>Mackenziaena severa</i>	NRM 956630	AY676935	AY676982	AY677029
<i>Hypodaleus guttatus</i>	LSUMZ B-25895	AY676936	AY676983	AY677030
<i>Batara cinerea</i>	LSUMZ B-18607	AY676937	AY676984	AY677031
<i>Taraba major</i>	NRM 956694	AY676938	AY676985	AY677032
<i>Sakesphorus bernardi</i>	ZMCU S101	AY676939	AY676986	AY677033
<i>Thamnophilus doliatus</i>	NRM 956691	AY676940	AY676987	AY677034
<i>Thamnophilus cryptoleucus</i>	ZMCU S1196	AY676941	AY676988	AY677035
<i>Thamnophilus praecox</i>	ZMCU S108	AY676942	AY676989	AY677036
<i>Thamnophilus nicolor</i>	ZMCU S111	AY676943	AY676990	AY677037
<i>Thamnophilus caerulescens</i>	NRM 967007	AY078176 (ref. 2)	AY065783 (ref. 1)	AY336587 (ref. 3)
<i>Megastictus margaritatus</i>	ZMCU S2130	AY676944	AY676991	AY677038
<i>Pygiptila stellaris</i>	LSUMZ B-9703	AY676945	AY676992	AY677039
<i>Thamnistes anabatinus</i>	ZMCU S1607	AY676946	AY676993	AY677040
<i>Thamnomanes caesius</i>	ZMCU S1312	AY676947	AY676994	AY677041
<i>Dysithamnus mentalis</i>	NRM 956629	AY676948	AY676995	AY677042
<i>Herpsilochmus atricapillus</i>	ZMCU S1086	AY676949	AY676996	AY677043
<i>Microrhopias quixensis</i>	FMNH 321993	AY676950	AY676997	AY677044
<i>Myrmotherula obscura</i>	ZMCU S1836	AY676951	AY676998	AY677045
<i>Myrmotherula leucophthalma</i>	ZMCU S1306	AY676952	AY676999	AY677046
<i>Myrmotherula fulviventris</i>	ZMCU S1649	AY676953	AY677000	AY677047
<i>Myrmotherula axillaris</i>	ZMCU 126870	AY676954	AY677001	AY677048
<i>Myrmotherula menetriesii</i>	ZMCU 126444	AY676955	AY677002	AY677049
<i>Myrmotherula behni</i>	ZMCU 128008	AY676956	AY677003	AY677050
<i>Terenura humeralis</i>	FMNH 389941	AY676957	AY677004	AY677051
<i>Drymophila squamata</i>	ZMCU S2199	AY065722 (ref. 1)	AY065780 (ref. 1)	AY677052
<i>Formicivora rufa</i>	NRM 947236	AY676958	AY677005	AY677053
<i>Myrmorchilus strigilatus</i>	NRM 956742	AY676959	AY677006	AY677054
<i>Cercomacra melanaria</i>	NRM 947099	AY065723 (ref. 1)	AY065781 (ref. 1)	AY677055
<i>Pyriglena leuconota</i>	ZMCU S2007	AY065724 (ref. 1)	AY065782 (ref. 1)	AY677056
<i>Neotantes niger</i>	FMNH 321806	AY676960	AY677007	AY677057
<i>Myrmoborus myotherinus</i>	ZMCU S1303	AY676961	AY677008	AY677058
<i>Dichrozona cincta</i>	ZMCU S1882	AY676962	AY677009	AY677059
<i>Hylophylax naevia</i>	ZMCU S1913	AY676963	AY677010	AY677060
<i>Hypocnemis cantator</i>	ZMCU S1300	AY676964	AY677011	AY677061
<i>Myrmochanes hemileucus</i>	LSUMZ B-7245	AY676965	AY677012	AY677062
<i>Hypocnemoides maculicauda</i>	ZMCU S1301	AY676966	AY677013	AY677063
<i>Sclateria naevia</i>	ZMCU S102	AY676967	AY677014	AY677064
<i>Schistocichla leucostigma</i>	ZMCU S1207	AY676968	AY677015	AY677065
<i>Myrmeciza griseiceps</i>	ZMCU S1221	AY676969	AY677016	AY677066
<i>Myrmeciza hemimelaena</i>	ZMCU 126372	AY676970	AY677017	AY677067
<i>Myrmeciza loricata</i>	ZMCU S1062	AY676971	AY677018	AY677068
<i>Myrmeciza fortis</i>	ZMCU 126346	AY676972	AY677019	AY677069
<i>Myrmeciza berlepschi</i>	ZMCU 126182	AY676973	AY677020	AY677070
<i>Gymnocichla nudiceps</i>	ZMCU S2732	AY676974	AY677021	AY677071
<i>Myrmornis torquata</i>	LSUMZ B-3228	AY676975	AY677022	AY677072
<i>Pithys albifrons</i>	ZMCU S1857	AY676976	AY677023	AY677073
<i>Gymnopathys leucaspis</i>	ZMCU S1843	AY676977	AY677024	AY677074
<i>Rhegmatorhina melanosticta</i>	ZMCU S1825	AY676978	AY677025	AY677075
<i>Phlegopsis erythroptera</i>	ZMCU S1860	AY676979	AY677026	AY677076
<i>Phaenostictus mcleannani</i>	ZMCU S1647	AY676980	AY677027	AY677077
Family <i>Conopophagidae</i>				
<i>Conopophaga aurita</i>	ZMCU S1245		AY065784 (ref. 1)	AY336577 (ref. 3)
<i>Conopophaga lineata</i>	NRM 956653	AY078173 (ref. 2)		
Family <i>Rhinocryptidae</i>				
<i>Pteroptochos tarnii</i>	AMNH RTC467	AY065717 (ref. 1)	AY065774 (ref. 1)	AY590096 (ref. 4)
Family <i>Furnariidae</i>				
<i>Sclerurus scansor</i>	NRM 937258	AY065715 (ref. 1)	AY065772 (ref. 1)	AY590080 (ref. 4)
Family <i>Grallariidae</i>				
<i>Grallaria squamigera</i>	ZMCU S78	AY065720 (ref. 1)	AY065778 (ref. 1)	AY677078