

APPENDIX II

Sample (98 Avahi and 25 outgroups total) used in the present genetic study and taxonomic revision of the Madagascar lemur genus Avahi. ^aTK Number is referenced voucher curated at The Museum of Texas Tech University. ^bMitochondrial DNA sequence data for D-Loop (D-Loop or control region) and PAST (Pastorini fragment) for each sample are available from GenBank under the listed accession number. N/A signifies that sequence fragment is not available (A. betsileo was formerly referred to as Avahi species nova #1).

Catalogue Number	TK Number ^a	Location	Original Species Designation	Current Species Designation	D-Loop ^b	PAST ^b
RANO66		Ranomafana (Talatakely)	<i>Avahi laniger</i>	<i>Avahi peyrierasi</i> type #2	DQ855975	DQ856051
RANO67		Ranomafana (Talatakely)	<i>Avahi laniger</i>	<i>Avahi peyrierasi</i> type #3	AY584495	AY582558
RANO199	125789	Ranomafana (Talatakely)	<i>Avahi laniger</i>	<i>Avahi peyrierasi</i> type #3	DQ855976	DQ856052
RANO261	125790	Ranomafana (Talatakely)	<i>Avahi laniger</i>	<i>Avahi peyrierasi</i> type #3	AY584496	AY582559
RANO319B		Ranomafana (Talatakely)	<i>Avahi laniger</i>	<i>Avahi peyrierasi</i> type #2	DQ855977	DQ856053
RANO320B	125791	Ranomafana (Talatakely)	<i>Avahi laniger</i>	<i>Avahi peyrierasi</i> type #3	EF187751	DQ856054
RANO348		Ranomafana (Talatakely)	<i>Avahi laniger</i>	<i>Avahi peyrierasi</i> type #2	DQ855978	DQ856055
RANO2.10	125751	Ranomafana (Talatakely)	<i>Avahi laniger</i>	<i>Avahi peyrierasi</i> type #2	DQ855979	DQ856056
RANOL6.1		Ranomafana (Ambatolahy Dimy)	<i>Avahi laniger</i>	<i>Avahi peyrierasi</i> type #2	EF491654	EF491638
RANOL6.2		Ranomafana (Ambatolahy Dimy)	<i>Avahi laniger</i>	<i>Avahi peyrierasi</i> type #3	EF491655	EF491639
RANOL6.3		Ranomafana (Ambatolahy Dimy)	<i>Avahi laniger</i>	<i>Avahi peyrierasi</i> type #2	EF491656	EF491640
RANOL6.4		Ranomafana (Ambatolahy Dimy)	<i>Avahi laniger</i>	<i>Avahi peyrierasi</i> type #3	EF491657	EF491641
RANOL6.11		Ranomafana (Ambatolahy Dimy)	<i>Avahi laniger</i>	<i>Avahi peyrierasi</i> type #3	EF491658	EF491642

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RANOL6.12		Ranomafana (Ambatolahy Dimy)	<i>Avahi laniger</i>	<i>Avahi peyrierasi</i> type #2	EF491659	EF491643
RANOL6.13		Ranomafana (Ambatolahy Dimy)	<i>Avahi laniger</i>	<i>Avahi peyrierasi</i> type #3	EF491660	EF491644
RANOL6.14		Ranomafana (Ambatolahy Dimy)	<i>Avahi laniger</i>	<i>Avahi peyrierasi</i> type #3	EF491661	EF491645
RANOL6.15		Ranomafana (Ambatolahy Dimy)	<i>Avahi laniger</i>	<i>Avahi peyrierasi</i> type #2	EF491662	EF491646
RANOV6.7		Ranomafana (Vohiparara)	<i>Avahi laniger</i>	<i>Avahi peyrierasi</i> type #2	EF491647	EF491631
RANOV6.8		Ranomafana (Vohiparara)	<i>Avahi laniger</i>	<i>Avahi peyrierasi</i> type #3	EF491648	EF491632
RANOV6.10		Ranomafana (Vohiparara)	<i>Avahi laniger</i>	<i>Avahi peyrierasi</i> type #2	EF491649	EF491633
RANOV6.11		Ranomafana (Vohiparara)	<i>Avahi laniger</i>	<i>Avahi peyrierasi</i> type #2	EF491650	EF491634
RANOV6.12		Ranomafana (Vohiparara)	<i>Avahi laniger</i>	<i>Avahi peyrierasi</i> type #3	EF491651	EF491635
RANOV6.13		Ranomafana (Vohiparara)	<i>Avahi laniger</i>	<i>Avahi peyrierasi</i> type #3	EF491652	EF491636
RANOV6.22		Ranomafana (Vohiparara)	<i>Avahi laniger</i>	<i>Avahi peyrierasi</i> type #3	EF491653	EF491637
VOP2.13	125752	Ranomafana (Vohiparara)	<i>Avahi laniger</i>	<i>Avahi peyrierasi</i> type #2	DQ855980	DQ856057
VOP2.14	125753	Ranomafana (Vohiparara)	<i>Avahi laniger</i>	<i>Avahi peyrierasi</i> type #2	DQ855981	DQ856058
VOP2.15		Ranomafana (Vohiparara)	<i>Avahi laniger</i>	<i>Avahi peyrierasi</i> type #2	DQ855982	DQ856059
M86	125754	Manombo	<i>Avahi laniger</i>	<i>Avahi m. ramanantisoavana</i>	DQ855983	DQ856060
M89		Manombo	<i>Avahi laniger</i>	<i>Avahi m. ramanantisoavana</i>	DQ855984	DQ856061
M107	125755	Manombo	<i>Avahi laniger</i>	<i>Avahi m. ramanantisoavana</i>	DQ855985	DQ856062

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M108		Manombo	<i>Avahi laniger</i>	<i>Avahi m. ramanantisoavana</i>	DQ855986	DQ856063
M119		Manombo	<i>Avahi laniger</i>	<i>Avahi m. ramanantisoavana</i>	DQ855987	DQ856064
M150		Manombo	<i>Avahi laniger</i>	<i>Avahi m. ramanantisoavana</i>	DQ855988	DQ856065
M155		Manombo	<i>Avahi laniger</i>	<i>Avahi m. ramanantisoavana</i>	DQ855989	DQ856066
M159		Manombo	<i>Avahi laniger</i>	<i>Avahi m. ramanantisoavana</i>	DQ855990	DQ856067
MAB4.8	125756	Manombo	<i>Avahi laniger</i>	<i>Avahi m. ramanantisoavana</i>	DQ855991	DQ856068
MAB4.10		Manombo	<i>Avahi laniger</i>	<i>Avahi m. ramanantisoavana</i>	DQ855992	DQ856069
FAN2.14	125757	Fandriana	<i>Avahi laniger</i>	<i>Avahi betsileo</i>	DQ855993	DQ856070
FAN2.15	125758	Fandriana	<i>Avahi laniger</i>	<i>Avahi betsileo</i>	DQ855994	DQ856071
FAN2.19		Fandriana	<i>Avahi laniger</i>	<i>Avahi betsileo</i>	DQ855995	DQ856072
FAN2.20	125759	Fandriana	<i>Avahi laniger</i>	<i>Avahi betsileo</i>	DQ855996	DQ856074
FAN2.21		Fandriana	<i>Avahi laniger</i>	<i>Avahi betsileo</i>	DQ855997	DQ856073
FAN6.6		Fandriana	<i>Avahi laniger</i>	<i>Avahi betsileo</i>	EF396279	EF396276
FAN6.7		Fandriana	<i>Avahi laniger</i>	<i>Avahi betsileo</i>	EF396280	EF396277
FAN6.9		Fandriana	<i>Avahi laniger</i>	<i>Avahi betsileo</i>	EF396281	EF396278
FAN6.10		Fandriana	<i>Avahi laniger</i>	<i>Avahi betsileo</i>	EF396282	EF396275
FAN6.11		Fandriana	<i>Avahi laniger</i>	<i>Avahi betsileo</i>	EF396283	EF396274

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TAD1		Mantadia	<i>Avahi laniger</i>	<i>Avahi laniger</i> type #1	DQ855998	DQ856075
TAD2	125760	Mantadia	<i>Avahi laniger</i>	<i>Avahi laniger</i> type #1	DQ855999	DQ856076
TAD3		Mantadia	<i>Avahi laniger</i>	<i>Avahi laniger</i> type #1	DQ856000	DQ856077
TAD19		Mantadia	<i>Avahi laniger</i>	<i>Avahi laniger</i> type #1	DQ856001	DQ856078
TAD36		Mantadia	<i>Avahi laniger</i>	<i>Avahi laniger</i> type #1	DQ856002	DQ856079
TAD37		Mantadia	<i>Avahi laniger</i>	<i>Avahi laniger</i> type #1	DQ856003	DQ856080
TAD4.3	125761	Mantadia	<i>Avahi laniger</i>	<i>Avahi laniger</i> type #1	DQ856004	DQ856081
TAD4.8		Mantadia	<i>Avahi laniger</i>	<i>Avahi laniger</i> type #1	DQ856005	DQ856082
TAD4.9	125762	Mantadia NP	<i>Avahi laniger</i>	<i>Avahi laniger</i> type #1	DQ856006	DQ856083
TAD4.20		Mantadia NP	<i>Avahi laniger</i>	<i>Avahi laniger</i> type #1	DQ856007	DQ856084
MIZA10		Maromizaha CF	<i>Avahi laniger</i>	<i>Avahi laniger</i> type #1	DQ856008	DQ856085
MIZA12		Maromizaha CF	<i>Avahi laniger</i>	<i>Avahi laniger</i> type #1	DQ856009	DQ856086
MIZA13		Maromizaha CF	<i>Avahi laniger</i>	<i>Avahi laniger</i> type #1	DQ856011	DQ856087
MIZA14		Maromizaha CF	<i>Avahi laniger</i>	<i>Avahi laniger</i> type #1	DQ856010	DQ856088
AND4	125763	Andohahela (Manangotry)	<i>Avahi laniger</i>	<i>Avahi m. meridionalis</i>	DQ856012	DQ856089
AND5	125764	Andohahela (Manangotry)	<i>Avahi laniger</i>	<i>Avahi m. meridionalis</i>	DQ856013	DQ856090
AND6		Andohahela (Manangotry)	<i>Avahi laniger</i>	<i>Avahi m. meridionalis</i>	DQ856014	DQ856091

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AND11		Andohahela (Manangotry)	<i>Avahi laniger</i>	<i>Avahi m. meridionalis</i>	DQ856015	DQ856092
AND12		Andohahela (Manangotry)	<i>Avahi laniger</i>	<i>Avahi m. meridionalis</i>	DQ856016	DQ856093
AND13	125765	Andohahela (Manangotry)	<i>Avahi laniger</i>	<i>Avahi m. meridionalis</i>	DQ856017	DQ856094
AND14		Andohahela (Manangotry)	<i>Avahi laniger</i>	<i>Avahi m. meridionalis</i>	DQ856018	DQ856095
AND19		Andohahela (Manangotry)	<i>Avahi laniger</i>	<i>Avahi m. meridionalis</i>	DQ856019	DQ856096
AND33		Andohahela (Manangotry)	<i>Avahi laniger</i>	<i>Avahi m. meridionalis</i>	DQ856020	DQ856097
AND34		Andohahela (Manangotry)	<i>Avahi laniger</i>	<i>Avahi m. meridionalis</i>	DQ856021	DQ856098
NARA4.1		Mananara-Nord (Ivontaka-Sud)	<i>Avahi laniger</i>	<i>Avahi laniger</i> type #2	DQ856022	DQ856099
NARA4.2		Mananara-Nord (Ivontaka-Sud)	<i>Avahi laniger</i>	<i>Avahi laniger</i> type #2	DQ856023	DQ856100
NARA4.10		Mananara-Nord (Ivontaka-Sud)	<i>Avahi laniger</i>	<i>Avahi laniger</i> type #2	DQ856024	DQ856101
NARA4.11	125766	Mananara-Nord (Ivontaka-Sud)	<i>Avahi laniger</i>	<i>Avahi laniger</i> type #2	DQ856025	DQ856102
NARA4.13		Mananara-Nord (Ivontaka-Sud)	<i>Avahi laniger</i>	<i>Avahi laniger</i> type #2	DQ856026	DQ856103
NARA4.17		Mananara-Nord (Ivontaka-Sud)	<i>Avahi laniger</i>	<i>Avahi laniger</i> type #2	DQ856027	DQ856104
NARA4.18	125767	Mananara-Nord (Ivontaka-Sud)	<i>Avahi laniger</i>	<i>Avahi laniger</i> type #2	DQ856028	DQ856105
NARA4.23		Mananara-Nord (Ivontaka-Sud)	<i>Avahi laniger</i>	<i>Avahi laniger</i> type #2	DQ856029	DQ856106
NARA4.31	125768	Mananara-Nord (Ivontaka-Sud)	<i>Avahi laniger</i>	<i>Avahi laniger</i> type #2	DQ856030	DQ856107
NARA4.32		Mananara-Nord (Ivontaka-Sud)	<i>Avahi laniger</i>	<i>Avahi laniger</i> type #2	DQ856031	DQ856108

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ANT5.8	125769	Antafondro (Maromiandra)	<i>Avahi unicolor</i>	<i>Avahi unicolor</i>	DQ856032	DQ856109
ANT5.9	125770	Antafondro (Maromiandra)	<i>Avahi unicolor</i>	<i>Avahi unicolor</i>	DQ856033	DQ856110
ANT5.10	125771	Antafondro (Maromiandra)	<i>Avahi unicolor</i>	<i>Avahi unicolor</i>	DQ856034	DQ856111
ANT5.12		Antafondro (Maromiandra)	<i>Avahi unicolor</i>	<i>Avahi unicolor</i>	DQ856035	DQ856112
BEMA8	125772	Tsingy de Bemaraha	<i>Avahi cleesei</i>	<i>Avahi cleesei</i>	DQ856036	DQ856113
BEMA9	125773	Tsingy de Bemaraha	<i>Avahi cleesei</i>	<i>Avahi cleesei</i>	DQ856037	DQ856114
BEMA12	125774	Tsingy de Bemaraha	<i>Avahi cleesei</i>	<i>Avahi cleesei</i>	DQ856038	DQ856115
BEMA13		Tsingy de Bemaraha	<i>Avahi cleesei</i>	<i>Avahi cleesei</i>	DQ856039	DQ856116
BEMA14		Tsingy de Bemaraha	<i>Avahi cleesei</i>	<i>Avahi cleesei</i>	DQ856040	DQ856117
MAR29		Mariarano	<i>Avahi occidentalis</i>	<i>Avahi occidentalis</i>	DQ856041	DQ856118
MAR46		Mariarano	<i>Avahi occidentalis</i>	<i>Avahi occidentalis</i>	DQ856042	DQ856119
MAR52		Mariarano	<i>Avahi occidentalis</i>	<i>Avahi occidentalis</i>	DQ856043	DQ856120
MAR54		Mariarano	<i>Avahi occidentalis</i>	<i>Avahi occidentalis</i>	DQ856044	DQ856121
MAR55		Mariarano	<i>Avahi occidentalis</i>	<i>Avahi occidentalis</i>	DQ856045	DQ856122
MAR56		Mariarano	<i>Avahi occidentalis</i>	<i>Avahi occidentalis</i>	DQ856046	DQ856123
MAR60		Mariarano	<i>Avahi occidentalis</i>	<i>Avahi occidentalis</i>	DQ856047	DQ856124
MAR61		Mariarano	<i>Avahi occidentalis</i>	<i>Avahi occidentalis</i>	DQ856048	DQ856125

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ANK7		Ankarafantsika	<i>Microcebus ravelobensis</i>	<i>Microcebus ravelobensis</i>	AY159695	AY582545
RANO250		Ranomafana	<i>Microcebus rufus</i>	<i>Microcebus rufus</i>	AY159722	AY582546
GAR8		Manongarivo	<i>Cheirogaleus medius</i>	<i>Cheirogaleus medius</i>	AY584498	AY582562
RANO229		Ranomafana	<i>Cheirogaleus major</i>	<i>Cheirogaleus major</i>	AY254050	AY582563
FAN21		Fandriana	<i>Varecia variegata</i>	<i>Varecia variegata</i>	AY584494	AY582555
RANO45		Ranomafana	<i>Eulemur fulvus rufus</i>	<i>Eulemur fulvus rufus</i>	AY585738	AY582561
ANAL2.23		Analamerana	<i>Hapalemur g. occidentalis</i>	<i>Hapalemur g. occidentalis</i>	AY584493	AY582554
GAR9		Analamerana	<i>Hapalemur g. occidentalis</i>	<i>Hapalemur g. occidentalis</i>	AY584492	AY582553
RANO61		Ranomafana	<i>Hapalemur griseus griseus</i>	<i>Hapalemur griseus griseus</i>	AY584490	AY582551
RANO62		Ranomafana	<i>Hapalemur griseus griseus</i>	<i>Hapalemur griseus griseus</i>	AY584491	AY582552
KIAN124		Kianjavato	<i>Hapalemur simus</i>	<i>Prolemur simus</i>	AY584488	AY582548
RANO338		Ranomafana	<i>Hapalemur simus</i>	<i>Prolemur simus</i>	AY254049	AY582547
RANO351		Ranomafana	<i>Hapalemur aureus</i>	<i>Hapalemur aureus</i>	AY584489	AY582549
RANO352		Ranomafana	<i>Hapalemur aureus</i>	<i>Hapalemur aureus</i>	AY254048	AY582550
JAR4		Anjanaharibe-Sud	<i>Indri indri</i>	<i>Indri indri</i>	DQ855969	DQ856049
MIZA5.3		Maromizaha	<i>Indri indri</i>	<i>Indri indri</i>	DQ855967	DQ856050
JAR14		Anjanaharibe-Sud	<i>Propithecus candidus</i>	<i>Propithecus candidus</i>	DQ855969	N/A

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TAD13		Mantadia	<i>Propithecus diadema</i>	<i>Propithecus diadema</i>	DQ855970	N/A
RANO332		Ranomafana	<i>Propithecus edwardsi</i>	<i>Propithecus edwardsi</i>	AY585739	AY582556
ANAL10		Analamerana	<i>Propithecus perrieri</i>	<i>Propithecus perrieri</i>	DQ855968	N/A
BOR2		Bora	<i>Propithecus coquereli</i>	<i>Propithecus coquereli</i>	DQ855971	N/A
BEMA4		Tsingy de Bemaraha	<i>Propithecus deckeni deckeni</i>	<i>Propithecus deckeni deckeni</i>	DQ855973	N/A
JAM4.7		Anjahamena	<i>Propithecus d. coronatus</i>	<i>Propithecus d. coronatus</i>	DQ855970	N/A
DAR4.2		Daraina	<i>Propithecus tattersalli</i>	<i>Propithecus tattersalli</i>	DQ855972	N/A
MOR68		Beroboka	<i>Propithecus verreauxi</i>	<i>Propithecus verreauxi</i>	AF585739	AY582557