

Supplementary Material

Skinks of Oceania, New Guinea, and Eastern Wallacea: an underexplored biodiversity hotspot

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SUPPLEMENTARY MATERIAL

Table S1. Skinks of Oceania and New Guinea. Each row is a species, the columns list each species' tribe, year of description, taxonomic authority, range (endemic to the region, native or introduced), presence (1) / absence (0) in each of the five sub-regions (see Figure 1), its Red List assessment, whether it is in need of taxonomic revision at the genus or species level, how many unique sequences are available for it in NCBI GenBIQ-TREEank, and number of loci.

Species	Tribe	Year of Description	Taxonomic Authority	Range	New Caledonia	New Guinea	Pacific	Solomon Islands	Eastern Wallacea	RedList	Revision (genus)	Revision (species)	NCBI loci	NCBI sequences
<i>Alpinoscincus alpinus</i>	Sphenomorphini	2005	GREER, ALLISON & COGGER 2005	Endemic	0	1	0	0	0	LC			5	20
<i>Alpinoscincus subalpinus</i>	Sphenomorphini	2005	GREER, ALLISON & COGGER 2005	Endemic	0	1	0	0	0	LC			0	0
<i>Bellatorias frerei</i>	Tiliquini	1897	(GÜNTHER 1897)	Native	0	1	0	0	0	LC			4	9
<i>Caesoris novaecaledoniae</i>	Eugongylini	1926	(PARKER 1926)	Endemic	1	0	0	0	0	LC			3	5
<i>Caledoniscincus aquilonius</i>	Eugongylini	1999	SADLIER, BAUER & COLGAN 1999	Endemic	1	0	0	0	0	NT			5	19
<i>Caledoniscincus atropunctatus</i>	Eugongylini	1913	(ROUX 1913)	Endemic	1	0	1	0	0	LC			4	70
<i>Caledoniscincus auratus</i>	Eugongylini	1999	SADLIER, BAUER & COLGAN 1999	Endemic	1	0	0	0	0	EN			4	11
<i>Caledoniscincus austrocaledonicus</i>	Eugongylini	1869	(BAVAY 1869)	Endemic	1	0	0	0	0	LC			17	49
<i>Caledoniscincus bodoi</i>	Eugongylini	1980	(BÖRNER 1980)	Endemic	1	0	0	0	0	LC			6	23
<i>Caledoniscincus chazeaui</i>	Eugongylini	1999	SADLIER, BAUER & COLGAN 1999	Endemic	1	0	0	0	0	EN			2	4

<i>Caledoniscincus constellatus</i>	Eugongylini	2012	SADLER, WHITAKER, WOOD & BAUER 2012	Endemic	1	0	0	0	0	CR			2	5
<i>Caledoniscincus cryptos</i>	Eugongylini	1999	SADLER, BAUER & COLGAN 1999	Endemic	1	0	0	0	0	DD			2	2
<i>Caledoniscincus festivus</i>	Eugongylini	1913	(ROUX 1913)	Endemic	1	0	0	0	0	LC			7	15
<i>Caledoniscincus haplorhinus</i>	Eugongylini	1872	(GÜNTHER 1872)	Endemic	1	0	0	0	0	LC			7	30
<i>Caledoniscincus notialis</i>	Eugongylini	2013	SADLER, SMITH, BAUER & WOOD 2013	Endemic	1	0	0	0	0	NT			6	42
<i>Caledoniscincus orestes</i>	Eugongylini	1987	SADLER 1987	Endemic	1	0	0	0	0	VU			4	13
<i>Caledoniscincus pelletieri</i>	Eugongylini	2014	SADLER, WHITAKER, WOOD & BAUER 2014	Endemic	1	0	0	0	0	EN			1	2
<i>Caledoniscincus renevieri</i>	Eugongylini	1999	SADLER, BAUER & COLGAN 1999	Endemic	1	0	0	0	0	EN			3	9
<i>Caledoniscincus terma</i>	Eugongylini	1999	SADLER, BAUER & COLGAN 1999	Endemic	1	0	0	0	0	DD			2	4
<i>Carlia aenigma</i>	Eugongylini	2004	ZUG 2004	Endemic	0	1	0	0	0	LC			3	6
<i>Carlia ailanpalai</i>	Eugongylini	2004	ZUG 2004	Endemic	0	0	0	1	0	LC			4	255
<i>Carlia aramia</i>	Eugongylini	2004	ZUG 2004	Endemic	0	1	0	0	0	LC			0	0
<i>Carlia babarensis</i>	Eugongylini	1926	(KOPSTEIN 1926)	Endemic	0	0	0	0	1	LC			0	0
<i>Carlia beccarii</i>	Eugongylini	1878	(PETERS & DORIA 1878)	Endemic	0	0	0	0	1	LC			1	1
<i>Carlia bicarinata</i>	Eugongylini	1877	(MACLEAY 1877)	Endemic	0	1	0	0	0	LC			4	19
<i>Carlia bomberai</i>	Eugongylini	2006	ZUG & ALLISON 2006	Endemic	0	1	0	0	0	LC			0	0

<i>Carlia caesius</i>	Eugongylini	2006	ZUG & ALLISON 2006	Endemic	0	1	0	0	0	LC			0	0
<i>Carlia diguliensis</i>	Eugongylini	1926	(KOPSTEIN 1926)	Endemic	0	1	0	0	0	LC			0	0
<i>Carlia eothen</i>	Eugongylini	2004	ZUG 2004	Endemic	0	1	0	0	0	LC			3	21
<i>Carlia fusca</i>	Eugongylini	1839	(DUMÉRIL & BIBRON 1839)	Endemic	0	1	0	0	1	LC			10	16
<i>Carlia leucotaenia</i>	Eugongylini	1860	(BLEEKER 1860)	Endemic	0	0	0	0	1	LC			0	0
<i>Carlia longipes</i>	Eugongylini	1877	(MACLEAY 1877)	Native	0	1	0	0	0	LC		yes	9	29
<i>Carlia luctuosa</i>	Eugongylini	1878	(PETERS & DORIA 1878)	Endemic	0	1	0	0	0	LC			3	6
<i>Carlia mysi</i>	Eugongylini	2004	ZUG 2004	Endemic	0	1	0	1	0	LC			5	31
<i>Carlia peronii</i>	Eugongylini	1839	(DUMÉRIL & BIBRON 1839)	Endemic	0	0	0	0	1	LC			0	0
<i>Carlia pulla</i>	Eugongylini	1911	(BARBOUR 1911)	Endemic	0	1	0	0	0	LC			3	21
<i>Carlia quinquecarinata</i>	Eugongylini	1877	(MACLEAY 1877)	Native	0	0	0	0	0	DD			1	2
<i>Carlia spinauris</i>	Eugongylini	1927	(SMITH 1927)	Endemic	0	0	0	0	1	NE			0	0
<i>Carlia storri</i>	Eugongylini	1989	INGRAM & COVACEVICH 1989	Endemic	0	1	0	0	0	LC			5	14
<i>Carlia sukur</i>	Eugongylini	2014	ZUG & KAISER 2014	Endemic	0	0	0	0	1	DD			0	0
<i>Carlia tutela</i>	Eugongylini	2004	ZUG 2004	Endemic	0	0	0	0	1	LC			1	5
<i>Celaticiscus euryotis</i>	Eugongylini	1910	(WERNER 1910)	Endemic	1	0	0	0	0	EN			4	5
<i>Celaticiscus similis</i>	Eugongylini	2006	SADLIER, SMITH & BAUER 2006	Endemic	1	0	0	0	0	EN			4	7
<i>Corucia zebrata</i>	Tiliquini	1855	GRAY 1855	Endemic	0	0	0	1	0	NT			10	314
<i>Cryptoblepharus burdeni</i>	Eugongylini	1927	DUNN 1927	Endemic	0	0	0	0	1	LC			1	1
<i>Cryptoblepharus eximius</i>	Eugongylini	1858	GIRARD 1858	Endemic	0	0	1	0	0	LC			1	12

<i>Cryptoblepharus furvus</i>	Eugongylini	2007	HORNER 2007	Endemic	0	1	0	0	0	LC			0	0
<i>Cryptoblepharus keiensis</i>	Eugongylini	1910	(ROUX 1910)	Endemic	0	0	0	0	1	LC			1	2
<i>Cryptoblepharus leschenault</i>	Eugongylini	1832	(COCTEAU 1832)	Endemic	0	0	0	0	1	LC			1	1
<i>Cryptoblepharus litoralis</i>	Eugongylini	1958	(MERTENS 1958)	Native	0	1	0	0	0	LC			0	0
<i>Cryptoblepharus novaeguineae</i>	Eugongylini	1928	MERTENS 1928	Endemic	0	1	0	0	0	LC		yes	1	1
<i>Cryptoblepharus novocaledonicus</i>	Eugongylini	1928	MERTENS 1928	Endemic	1	0	0	0	0	LC			13	33
<i>Cryptoblepharus novohebridicus</i>	Eugongylini	1928	MERTENS 1928	Endemic	0	0	1	0	0	LC			1	2
<i>Cryptoblepharus poecilopleurus</i>	Eugongylini	1836	(WIEGMANN 1834)	Endemic	0	1	1	1	0	LC			2	11
<i>Cryptoblepharus renschi</i>	Eugongylini	1928	MERTENS 1928	Endemic	0	0	0	0	1	LC			0	0
<i>Cryptoblepharus richardsi</i>	Eugongylini	2007	HORNER 2007	Endemic	0	1	0	0	0	DD			0	0
<i>Cryptoblepharus rutilus</i>	Eugongylini	1879	(PETERS 1879)	Endemic	0	0	1	0	0	LC			0	0
<i>Cryptoblepharus schlegelianus</i>	Eugongylini	1928	MERTENS 1928	Endemic	0	0	0	0	1	LC			0	0
<i>Cryptoblepharus xenikos</i>	Eugongylini	2007	HORNER 2007	Endemic	0	1	0	0	0	DD			0	0
<i>Cryptoblepharus yulensis</i>	Eugongylini	2007	HORNER 2007	Endemic	0	1	0	0	0	LC			1	1
<i>Ctenotus robustus</i>	Sphenomorphini	1970	STORR 1970	Native	0	1	0	0	0	LC		yes	10	73
<i>Ctenotus spaldingi</i>	Sphenomorphini	1877	(MACLEAY 1877)	Native	0	1	0	0	0	LC		yes	5	123
<i>Emoia adspersa</i>	Eugongylini	1870	(STEINDACHNER 1870)	Native	0	0	1	0	0	EN	yes		1	1
<i>Emoia aenea</i>	Eugongylini	1985	BROWN & PARKER 1985	Endemic	0	1	0	0	0	LC	yes		0	0
<i>Emoia aneityumensis</i>	Eugongylini	1974	MEDWAY 1974	Endemic	0	0	1	0	0	EN	yes		1	2

<i>Emoia arnoensis</i>	Eugongylini	1953	BROWN & MARSHALL 1953	Endemic	0	0	1	0	0	LC	yes		0	0
<i>Emoia atrocostata</i>	Eugongylini	1830	(LESSON 1830)	Native	0	1	1	1	1	LC	yes		18	39
<i>Emoia aurulenta</i>	Eugongylini	1985	BROWN & PARKER 1985	Endemic	0	1	0	0	0	LC	yes		0	0
<i>Emoia battersbyi</i>	Eugongylini	1923	(PROCTER 1923)	Endemic	0	1	0	0	0	LC	yes		0	0
<i>Emoia baudini</i>	Eugongylini	1839	(DUMÉRIL & BIBRON 1839)	Endemic	0	1	0	0	0	LC	yes		0	0
<i>Emoia beryllion</i>	Eugongylini	2018	KRAUS 2018	Endemic	0	1	0	0	0	NE	yes		0	0
<i>Emoia bismarckensis</i>	Eugongylini	1983	BROWN 1983	Endemic	0	0	0	1	0	LC	yes		0	0
<i>Emoia boettgeri</i>	Eugongylini	1918	(STERNFELD 1918)	Endemic	0	0	1	0	0	EN	yes		2	4
<i>Emoia bogerti</i>	Eugongylini	1953	BROWN 1953	Endemic	0	1	0	0	0	LC	yes		0	0
<i>Emoia brongersmai</i>	Eugongylini	1991	BROWN 1991	Endemic	0	1	0	0	0	LC	yes		0	0
<i>Emoia caeruleocauda</i>	Eugongylini	1892	(DE VIS 1892)	Native	0	1	1	1	1	LC	yes	yes	21	493
<i>Emoia callisticta</i>	Eugongylini	1878	(PETERS & DORIA 1878)	Endemic	0	1	0	0	0	LC	yes		0	0
<i>Emoia campbelli</i>	Eugongylini	1986	BROWN & GIBBONS 1986	Endemic	0	0	1	0	0	EN	yes		0	0
<i>Emoia coggeri</i>	Eugongylini	1991	BROWN 1991	Endemic	0	1	0	0	0	DD	yes		0	0
<i>Emoia concolor</i>	Eugongylini	1851	(DUMÉRIL 1851)	Endemic	0	0	1	0	0	NT	yes		2	13
<i>Emoia cyanogaster</i>	Eugongylini	1829	(LESSON 1829)	Endemic	0	0	1	1	0	LC	yes		6	16
<i>Emoia cyanura</i>	Eugongylini	1830	(LESSON 1830)	Native	1	0	1	1	0	LC	yes	yes	12	281
<i>Emoia cyclops</i>	Eugongylini	1991	BROWN 1991	Endemic	0	1	0	0	0	DD	yes		0	0
<i>Emoia digul</i>	Eugongylini	1991	BROWN 1991	Endemic	0	1	0	0	0	DD	yes		0	0
<i>Emoia erronan</i>	Eugongylini	1991	BROWN 1991	Endemic	0	0	1	0	0	VU	yes		0	0
<i>Emoia flavigularis</i>	Eugongylini	1932	SCHMIDT 1932	Endemic	0	0	0	1	0	LC	yes		0	0
<i>Emoia guttata</i>	Eugongylini	1986	BROWN & ALLISON 1986	Endemic	0	1	0	0	0	LC	yes		0	0

<i>Emoia impar</i>	Eugongylini	1898	(WERNER 1898)	Endemic	0	0	1	1	0	LC	yes		8	264
<i>Emoia irianensis</i>	Eugongylini	1991	BROWN 1991	Endemic	0	1	0	0	0	LC	yes		0	0
<i>Emoia isolata</i>	Eugongylini	1991	BROWN 1991	Endemic	0	0	0	1	0	LC	yes		5	7
<i>Emoia jakati</i>	Eugongylini	1926	(KOPSTEIN 1926)	Endemic	0	1	1	1	1	LC	yes	yes	9	20
<i>Emoia jamur</i>	Eugongylini	1991	BROWN 1991	Endemic	0	1	0	0	0	DD	yes		0	0
<i>Emoia kitcheneri</i>	Eugongylini	1998	HOW, DURRANT, SMITH & SALEH 1998	Endemic	0	0	0	0	1	DD	yes		0	0
<i>Emoia klossi</i>	Eugongylini	1914	(BOULENGER 1914)	Endemic	0	1	0	0	0	DD	yes		0	0
<i>Emoia kordoana</i>	Eugongylini	1874	(MEYER 1874)	Endemic	0	1	0	1	0	LC	yes		0	0
<i>Emoia kuekenthali</i>	Eugongylini	1895	(BOETTGER 1895)	Endemic	0	1	0	0	1	LC	yes		0	0
<i>Emoia lawesii</i>	Eugongylini	1874	(GÜNTHER 1874)	Endemic	0	0	1	0	0	NE	yes		0	0
<i>Emoia longicauda</i>	Eugongylini	1877	(MACLEAY 1877)	Native	0	1	0	1	1	LC	yes		3	6
<i>Emoia loveridgei</i>	Eugongylini	1953	BROWN 1953	Endemic	0	1	0	0	0	LC	yes		0	0
<i>Emoia loyaltiensis</i>	Eugongylini	1913	(ROUX 1913)	Endemic	1	0	0	0	0	VU	yes		4	5
<i>Emoia maculata</i>	Eugongylini	1954	BROWN 1954	Endemic	0	0	0	1	0	LC	yes		0	0
<i>Emoia maxima</i>	Eugongylini	1953	BROWN 1953	Endemic	0	1	0	0	0	LC	yes		0	0
<i>Emoia mivarti</i>	Eugongylini	1887	(BOULENGER 1887)	Endemic	0	0	0	1	0	DD	yes		0	0
<i>Emoia mokolahi</i>	Eugongylini	2012	ZUG, INEICH, PREGILL & HAMILTON 2012	Endemic	0	0	1	0	0	NE	yes		1	4
<i>Emoia mokosariniveika u</i>	Eugongylini	1995	ZUG & INEICH 1995	Endemic	0	0	1	0	0	EN	yes		1	1
<i>Emoia montana</i>	Eugongylini	1991	BROWN 1991	Endemic	0	1	0	0	0	LC	yes		0	0
<i>Emoia nigra</i>	Eugongylini	1853	(JACQUINOT & GUICHENOT 1853)	Endemic	0	0	1	1	0	LC	yes		4	16
<i>Emoia</i>	Eugongylini	1913	(ROUX 1913)	Endemic	0	0	1	0	0	LC	yes		1	2

<i>nigromarginata</i>														
<i>Emoia obscura</i>	Eugongylini	1927	(DE JONG 1927)	Endemic	0	1	0	0	0	LC	yes		0	0
<i>Emoia oribata</i>	Eugongylini	1953	BROWN 1953	Endemic	0	1	0	0	0	LC	yes		0	0
<i>Emoia oriva</i>	Eugongylini	2012	ZUG 2012	Endemic	0	0	1	0	0	NE	yes		0	0
<i>Emoia pallidiceps</i>	Eugongylini	1890	(DE VIS 1890)	Endemic	0	1	0	1	0	LC	yes		0	0
<i>Emoia paniai</i>	Eugongylini	1991	BROWN 1991	Endemic	0	1	0	0	0	DD	yes		0	0
<i>Emoia parkeri</i>	Eugongylini	1980	BROWN, PERNETTA & WATLING 1980	Endemic	0	0	1	0	0	VU	yes		1	3
<i>Emoia physicae</i>	Eugongylini	1839	(DUMÉRIL & BIBRON 1839)	Endemic	0	1	0	0	0	LC	yes		5	6
<i>Emoia physicina</i>	Eugongylini	1985	BROWN & PARKER 1985	Endemic	0	1	0	0	0	LC	yes		0	0
<i>Emoia ponapea</i>	Eugongylini	1982	KIESTER 1982	Endemic	0	0	1	0	0	EN	yes		5	11
<i>Emoia popei</i>	Eugongylini	1953	BROWN 1953	Endemic	0	1	0	0	0	LC	yes		0	0
<i>Emoia pseudocyanura</i>	Eugongylini	1991	BROWN 1991	Endemic	0	0	0	1	0	LC	yes		5	28
<i>Emoia pseudopallidiceps</i>	Eugongylini	1991	BROWN 1991	Endemic	0	1	0	0	0	LC	yes		0	0
<i>Emoia reimschiisseli</i>	Eugongylini	1950	TANNER 1950	Endemic	0	1	0	0	1	NE	yes		0	0
<i>Emoia rennellensis</i>	Eugongylini	1991	BROWN 1991	Endemic	0	0	0	1	0	LC	yes		0	0
<i>Emoia rufilabialis</i>	Eugongylini	1984	MCCOY & WEBBER 1984	Endemic	0	0	0	1	0	LC	yes		5	12
<i>Emoia samoensis</i>	Eugongylini	1851	(DUMÉRIL 1851)	Endemic	0	0	1	0	0	EN	yes		1	2
<i>Emoia sanfordi</i>	Eugongylini	1930	SCHMIDT & BURT 1930	Endemic	0	0	1	0	0	LC	yes		4	10
<i>Emoia schmidti</i>	Eugongylini	1954	BROWN 1954	Endemic	0	0	0	1	0	LC	yes		9	13
<i>Emoia similis</i>	Eugongylini	1927	DUNN 1927	Endemic	0	0	0	0	1	LC	yes		0	0
<i>Emoia slevini</i>	Eugongylini	1972	BROWN & FALANRUW 1972	Endemic	0	0	1	0	0	CR	yes		1	3
<i>Emoia sorex</i>	Eugongylini	1895	(BOETTGER	Endemic	0	0	0	0	1	LC	yes		0	0

			1895)											
<i>Emoia submetallica</i>	Eugongylini	1877	(MACLEAY 1877)	Endemic	0	1	0	0	0	LC	yes		0	0
<i>Emoia taumakoensis</i>	Eugongylini	1984	MCCOY & WEBBER 1984	Endemic	0	0	0	1	0	LC	yes		5	25
<i>Emoia tetrataenia</i>	Eugongylini	1895	(BOULENGER 1895)	Endemic	0	1	0	0	0	LC	yes		3	6
<i>Emoia tongana</i>	Eugongylini	1899	(WERNER 1899)	Endemic	0	0	1	0	0	LC	yes		2	12
<i>Emoia tropidolepis</i>	Eugongylini	1914	(BOULENGER 1914)	Endemic	0	1	0	0	0	LC	yes		0	0
<i>Emoia trossula</i>	Eugongylini	1986	BROWN & GIBBONS 1986	Endemic	0	0	1	0	0	EN	yes		1	4
<i>Emoia tuitarere</i>	Eugongylini	2011	ZUG, HAMILTON & AUSTIN 2011	Endemic	0	0	1	0	0	VU	yes		1	3
<i>Emoia veracunda</i>	Eugongylini	1953	BROWN 1953	Endemic	0	1	0	0	0	LC	yes		0	0
<i>Epibator greeri</i>	Eugongylini	1979	(BÖHME 1979)	Endemic	1	0	0	0	0	EN			0	0
<i>Epibator insularis</i>	Eugongylini	2019	SADLER, DEBAR, CHAVIS, BAUER, JOURDAN & JACKMAN 2019	Endemic	1	0	0	0	0	NE			5	59
<i>Epibator nigrofasciolatus</i>	Eugongylini	1869	(PETERS 1869)	Endemic	1	0	0	0	0	LC			10	166
<i>Eremiascincus antoniorum</i>	Sphenomorphini	1927	(SMITH 1927)	Endemic	0	0	0	0	1	CR	yes		0	0
<i>Eremiascincus butlerorum</i>	Sphenomorphini	1993	(APLIN, HOW & BOEADI 1993)	Endemic	0	0	0	0	1	EN	yes		0	0
<i>Eremiascincus emigrans</i>	Sphenomorphini	1895	(LIDTH DE JEUDE 1895)	Endemic	0	0	0	0	1	LC	yes		0	0
<i>Eremiascincus timorensis</i>	Sphenomorphini	1990	(GREER 1990)	Endemic	0	0	0	0	1	NT	yes		0	0
<i>Eugongylus albofasciolatus</i>	Eugongylini	1872	(GÜNTHER 1872)	Endemic	0	1	1	1	0	LC		yes	5	16
<i>Eugongylus</i>	Eugongylini	1895	(BOETTGER	Endemic	0	0	0	0	1	LC			0	0

<i>mentovarius</i>			1895)											
<i>Eugongylus rufescens</i>	Eugongylini	1802	(SHAW 1802)	Native	0	1	0	1	1	LC		yes	51	60
<i>Eugongylus sulaensis</i>	Eugongylini	1927	(KOPSTEIN 1927)	Endemic	0	0	0	0	1	DD			0	0
<i>Eugongylus unilineatus</i>	Eugongylini	1915	(DE ROOIJ 1915)	Endemic	0	1	0	0	0	LC			0	0
<i>Eutropis multifasciata</i>	Mabuyini	1820	(KUHL, 1820)	Native	0	0	0	0	1	LC			35	303
<i>Eutropis palauensis</i>	Mabuyini	2020	BARLEY, DIESMOS, SILER, MARTINEZ & BROWN 2020	Endemic	0	0	1	0	0	NE			0	0
<i>Fojia bumui</i>	Sphenomorphini	1982	GREER & SIMON 1982	Endemic	0	1	0	0	0	NE			0	0
<i>Geomyersia coggeri</i>	Eugongylini	1982	GREER 1982	Endemic	0	0	0	1	0	LC			0	0
<i>Geomyersia glabra</i>	Eugongylini	1968	GREER & PARKER 1968	Endemic	0	0	0	1	0	NT			0	0
<i>Geoscincus haraldmeieri</i>	Eugongylini	1976	(BÖHME 1976)	Endemic	1	0	0	0	0	DD			0	0
<i>Glaphyromorphus crassicaudus</i>	Sphenomorphini	1851	(DUMÉRIL & DUMÉRIL 1851)	Native	0	1	0	0	0	LC		yes	0	0
<i>Glaphyromorphus nigricaudis</i>	Sphenomorphini	1877	(MACLEAY 1877)	Native	0	1	0	0	0	LC			4	4
<i>Graciliscincus shonae</i>	Eugongylini	1987	SADLER 1987	Endemic	1	0	0	0	0	VU			7	16
<i>Kanakysaurus viviparus</i>	Eugongylini	2004	SADLER, WHITAKER, BAUER & SMITH 2004	Endemic	1	0	0	0	0	EN			7	13
<i>Kanakysaurus zebratus</i>	Eugongylini	2008	SADLER, SMITH, WHITAKER & BAUER 2008	Endemic	1	0	0	0	0	EN			1	2
<i>Kuniesaurus albiauris</i>	Eugongylini	2019	SADLER, DEUSS, BAUER	Endemic	1	0	0	0	0	NE			0	0

			& JOURDAN 2019											
<i>Lacertoides pardalis</i>	Eugongylini	1997	SADLER, SHEA & BAUER 1997	Endemic	1	0	0	0	0	VU			7	15
<i>Lamprolepis smaragdina</i>	Lygosomini	1829	(LESSON 1829)	Native	0	1	1	1	1	LC		yes	20	280
<i>Lampropholis delicata</i>	Eugongylini	1888	(DE VIS 1888)	Introduced	0	0	0	0	0	LC			7	1032
<i>Leiolopisma alazon</i>	Eugongylini	1985	ZUG 1985	Endemic	0	0	1	0	0	CR			0	0
<i>Lioscincus steindachneri</i>	Eugongylini	1873	BOCAGE 1873	Endemic	1	0	0	0	0	EN			11	20
<i>Lioscincus vivae</i>	Eugongylini	2004	SADLER, BAUER, WHITAKER & SMITH 2004	Endemic	1	0	0	0	0	CR			4	5
<i>Lipinia cheesmanae</i>	Sphenomorphini	1940	(PARKER 1940)	Endemic	0	1	0	0	0	DD	yes		0	0
<i>Lipinia leptosoma</i>	Sphenomorphini	1958	(BROWN & FEHLMANN 1958)	Endemic	0	0	1	0	0	NT	yes		1	5
<i>Lipinia longiceps</i>	Sphenomorphini	1895	(BOULENGER 1895)	Endemic	0	1	0	0	0	LC	yes	yes	5	10
<i>Lipinia occidentalis</i>	Sphenomorphini	2000	GÜNTHER 2000	Endemic	0	1	0	0	0	DD	yes		0	0
<i>Lipinia rouxi</i>	Sphenomorphini	1934	(HEDIGER 1934)	Endemic	0	0	0	1	0	LC	yes		0	0
<i>Lipinia septentrionalis</i>	Sphenomorphini	2000	GÜNTHER 2000	Endemic	0	1	0	0	0	LC	yes		0	0
<i>Lobulia brongersmai</i>	Sphenomorphini	1972	(ZWEIFEL 1972)	Endemic	0	1	0	0	0	LC			5	5
<i>Lobulia elegans</i>	Sphenomorphini	1897	(BOULENGER 1897)	Endemic	0	1	0	0	0	LC			6	444
<i>Lobulia fortis</i>	Sphenomorphini	2021	SLAVENKO, TAMAR, TALLOWIN, KRAUS, ALLISON,	Endemic	0	1	0	0	0	NE			5	20

			CARRANZA & MEIRI 2021											
<i>Lobulia huonensis</i>	Sphenomorphini	2021	SLAVENKO, TAMAR, TALLOWIN, KRAUS, ALLISON, CARRANZA & MEIRI 2021	Endemic	0	1	0	0	0	NE			5	70
<i>Lobulia lobulus</i>	Sphenomorphini	1945	LOVERIDGE 1945	Endemic	0	1	0	0	0	NE			5	5
<i>Lobulia marmorata</i>	Sphenomorphini	2021	SLAVENKO, TAMAR, TALLOWIN, KRAUS, ALLISON, CARRANZA & MEIRI 2021	Endemic	0	1	0	0	0	NE			5	10
<i>Lobulia vogelkopensis</i>	Sphenomorphini	2021	SLAVENKO, TAMAR, TALLOWIN, KRAUS, ALLISON, CARRANZA & MEIRI 2021	Endemic	0	1	0	0	0	NE			0	0
<i>Lygisaurus curtus</i>	Eugongylini	1897	(BOULENGER 1897)	Endemic	0	1	0	0	0	LC			3	3
<i>Lygisaurus macfarlani</i>	Eugongylini	1877	(GÜNTHER 1877)	Endemic	0	1	0	0	0	LC		yes	2	3
<i>Lygisaurus novaeguineae</i>	Eugongylini	1874	(MEYER 1874)	Endemic	0	1	0	0	1	LC		yes	9	16
<i>Marmorosphax bouldina</i>	Eugongylini	2009	SADLIER, SMITH, BAUER & WHITAKER 2009	Endemic	1	0	0	0	0	VU			2	9
<i>Marmorosphax kaala</i>	Eugongylini	2009	SADLIER, SMITH, BAUER & WHITAKER	Endemic	1	0	0	0	0	CR			3	4

			2009											
<i>Marmorosphax montana</i>	Eugongylini	2000	SADLER & BAUER 2000	Endemic	1	0	0	0	0	EN			7	23
<i>Marmorosphax taom</i>	Eugongylini	2009	SADLER, SMITH, BAUER & WHITAKER 2009	Endemic	1	0	0	0	0	EN			2	9
<i>Marmorosphax tricolor</i>	Eugongylini	1869	(BAVAY 1869)	Endemic	1	0	0	0	0	LC			8	173
<i>Nannoscincus exos</i>	Eugongylini	2000	BAUER & SADLER 2000	Endemic	1	0	0	0	0	CR			1	1
<i>Nannoscincus fuscus</i>	Eugongylini	1872	GÜNTHER 1872	Endemic	1	0	0	0	0	EN			2	16
<i>Nannoscincus garrulus</i>	Eugongylini	2006	SADLER, BAUER & SMITH 2006	Endemic	1	0	0	0	0	EN			3	10
<i>Nannoscincus gracilis</i>	Eugongylini	1869	(BAVAY 1869)	Endemic	1	0	0	0	0	VU			4	37
<i>Nannoscincus greeri</i>	Eugongylini	1987	SADLER 1987	Endemic	1	0	0	0	0	EN			4	6
<i>Nannoscincus hanchisteus</i>	Eugongylini	2000	BAUER & SADLER 2000	Endemic	1	0	0	0	0	CR			3	5
<i>Nannoscincus humectus</i>	Eugongylini	2000	BAUER & SADLER 2000	Endemic	1	0	0	0	0	EN			2	2
<i>Nannoscincus koniambo</i>	Eugongylini	2014	SADLER, BAUER, WHITAKER & WOOD 2014	Endemic	1	0	0	0	0	CR			1	2
<i>Nannoscincus manautei</i>	Eugongylini	2004	SADLER, BAUER, WHITAKER & SMITH 2004	Endemic	1	0	0	0	0	CR			2	3
<i>Nannoscincus mariei</i>	Eugongylini	1869	(BAVAY 1869)	Endemic	1	0	0	0	0	VU			9	24
<i>Nannoscincus rankini</i>	Eugongylini	1987	SADLER 1987	Endemic	1	0	0	0	0	CR			2	2
<i>Nannoscincus slevini</i>	Eugongylini	1941	(LOVERIDGE 1941)	Endemic	1	0	0	0	0	EN			3	8

<i>Nubeoscincus glacialis</i>	Sphenomorphini	2005	(GREER, ALLISON & COGGER 2005)	Endemic	0	1	0	0	0	DD			5	10
<i>Nubeoscincus stellaris</i>	Sphenomorphini	2005	(GREER, ALLISON & COGGER 2005)	Endemic	0	1	0	0	0	DD			0	0
<i>Ornithuroscincus albodorsalis</i>	Sphenomorphini	1932	(VOGT 1932)	Endemic	0	1	0	0	0	DD			0	0
<i>Ornithuroscincus bengaun</i>	Sphenomorphini	2021	SLAVENKO, TAMAR, TALLOWIN, KRAUS, ALLISON, CARRANZA & MEIRI 2021	Endemic	0	1	0	0	0	NE			5	5
<i>Ornithuroscincus inornatus</i>	Sphenomorphini	2021	SLAVENKO, TAMAR, TALLOWIN, KRAUS, ALLISON, CARRANZA & MEIRI 2021	Endemic	0	1	0	0	0	NE			5	5
<i>Ornithuroscincus noctua</i>	Sphenomorphini	1829	(LESSON 1829)	Native	0	1	1	1	1	LC		yes	10	33
<i>Ornithuroscincus nototaenia</i>	Sphenomorphini	1914	(BOULENGER 1914)	Endemic	0	1	0	0	0	LC			0	0
<i>Ornithuroscincus pterophilus</i>	Sphenomorphini	2021	SLAVENKO, TAMAR, TALLOWIN, KRAUS, ALLISON, CARRANZA & MEIRI 2021	Endemic	0	1	0	0	0	NE			5	40
<i>Ornithuroscincus sabini</i>	Sphenomorphini	2020	KRAUS 2020	Endemic	0	1	0	0	0	NE			5	10
<i>Ornithuroscincus shearmani</i>	Sphenomorphini	2021	SLAVENKO, TAMAR, TALLOWIN,	Endemic	0	1	0	0	0	NE			5	5

			KRAUS, ALLISON, CARRANZA & MEIRI 2021											
<i>Ornithuroscincus venemai</i>	Sphenomorphini	1953	BRONGERSMA 1953	Endemic	0	1	0	0	0	NE	yes		0	0
<i>Ornithuroscincus viridis</i>	Sphenomorphini	2021	SLAVENKO, TAMAR, TALLOWIN, KRAUS, ALLISON, CARRANZA & MEIRI 2021	Endemic	0	1	0	0	0	NE			5	45
<i>Palatia pulchra</i>	Sphenomorphini	1903	(BOULENGER 1903)	Endemic	0	1	0	0	0	LC			5	10
<i>Papuascincus buergersi</i>	Sphenomorphini	1932	(VOGT 1932)	Endemic	0	1	0	0	0	DD			0	0
<i>Papuascincus morokanus</i>	Sphenomorphini	1936	(PARKER 1936)	Endemic	0	1	0	0	0	LC		yes	0	0
<i>Papuascincus phaeodes</i>	Sphenomorphini	1932	(VOGT 1932)	Endemic	0	1	0	0	0	DD			0	0
<i>Papuascincus stanleyanus</i>	Sphenomorphini	1897	(BOULENGER 1897)	Endemic	0	1	0	0	0	LC		yes	6	11
<i>Phaeoscincus ouinensis</i>	Eugongylini	2014	SADLER, SHEA & BAUER 2014	Endemic	1	0	0	0	0	DD			0	0
<i>Phaeoscincus taomensis</i>	Eugongylini	2014	SADLER, WHITAKER, SMITH & BAUER 2014	Endemic	1	0	0	0	0	DD			1	1
<i>Phymasaurus maruia</i>	Eugongylini	1998	(SADLER, WHITAKER & BAUER 1998)	Endemic	1	0	0	0	0	VU			7	11
<i>Phymasaurus tillieri</i>	Eugongylini	1991	(INEICH & SADLER 1991)	Endemic	1	0	0	0	0	NT			11	26
<i>Phoboscincus bocourti</i>	Eugongylini	1876	(BROCCHI 1876)	Endemic	1	0	0	0	0	CR			4	11
<i>Phoboscincus garnieri</i>	Eugongylini	1869	(BAVAY 1869)	Endemic	1	0	0	0	0	LC			4	13

<i>Prasinohaema flavipes</i>	Sphenomorphini	1936	(PARKER 1936)	Endemic	0	1	0	0	0	LC	yes		5	5
<i>Prasinohaema parkeri</i>	Sphenomorphini	1937	(SMITH 1937)	Endemic	0	1	0	0	0	DD	yes		0	0
<i>Prasinohaema prehensicauda</i>	Sphenomorphini	1945	(LOVERIDGE 1945)	Endemic	0	1	0	0	0	LC	yes		4	4
<i>Prasinohaema semoni</i>	Sphenomorphini	1894	(OUDEMANS 1894)	Endemic	0	1	0	0	0	LC	yes		5	5
<i>Prasinohaema virens</i>	Sphenomorphini	1881	(PETERS 1881)	Endemic	0	1	0	0	0	LC	yes	yes	18	32
<i>Sigaloseps balios</i>	Eugongylini	2014	SADLER, BAUER & WOOD 2014	Endemic	1	0	0	0	0	VU			2	4
<i>Sigaloseps conditus</i>	Eugongylini	2014	SADLER, BAUER & WOOD 2014	Endemic	1	0	0	0	0	EN			2	8
<i>Sigaloseps deplanchei</i>	Eugongylini	1869	(BAVAY 1869)	Endemic	1	0	0	0	0	LC			7	81
<i>Sigaloseps ferrugicauda</i>	Eugongylini	2014	SADLER, SMITH, SHEA & BAUER 2014	Endemic	1	0	0	0	0	VU			2	3
<i>Sigaloseps pisinnus</i>	Eugongylini	2014	SADLER, SHEA, WHITAKER, BAUER & WOOD 2014	Endemic	1	0	0	0	0	EN			2	26
<i>Sigaloseps ruficauda</i>	Eugongylini	1999	SADLER & BAUER 1999	Endemic	1	0	0	0	0	CR			4	6
<i>Simiscincus aurantiacus</i>	Eugongylini	1997	SADLER & BAUER 1997	Endemic	1	0	0	0	0	VU			7	14
<i>Sphenomorphus aignanus</i>	Sphenomorphini	1898	(BOULENGER 1898)	Endemic	0	1	0	0	0	LC	yes	yes	0	0
<i>Sphenomorphus annectens</i>	Sphenomorphini	1897	(BOULENGER 1897)	Endemic	0	1	0	0	0	DD	yes	yes	0	0
<i>Sphenomorphus anotus</i>	Sphenomorphini	1973	GREER 1973	Endemic	0	1	0	0	0	LC	yes		0	0
<i>Sphenomorphus bignelli</i>	Sphenomorphini	1932	SCHMIDT 1932	Endemic	0	0	0	1	0	LC	yes		3	3
<i>Sphenomorphus</i>	Sphenomorphini	1974	GREER &	Endemic	0	1	0	0	0	LC	yes	yes	0	0

<i>brunneus</i>	i		PARKER 1974												
<i>Sphenomorphus capitolythos</i>	Sphenomorphini	2009	SHEA & MICHELS 2009	Endemic	0	0	0	0	1	DD	yes		0	0	
<i>Sphenomorphus cinereus</i>	Sphenomorphini	1974	GREER & PARKER 1974	Endemic	0	1	0	0	0	DD	yes		0	0	
<i>Sphenomorphus concinnatus</i>	Sphenomorphini	1887	(BOULENGER 1887)	Endemic	0	0	0	1	0	LC	yes		6	11	
<i>Sphenomorphus consobrinus</i>	Sphenomorphini	1878	(PETERS & DORIA 1878)	Endemic	0	0	0	0	1	DD	yes		0	0	
<i>Sphenomorphus cranei</i>	Sphenomorphini	1932	SCHMIDT 1932	Endemic	0	0	0	1	0	LC	yes		6	12	
<i>Sphenomorphus darlingtoni</i>	Sphenomorphini	1945	(LOVERIDGE 1945)	Endemic	0	1	0	0	0	LC	yes	yes	0	0	
<i>Sphenomorphus dekkeriae</i>	Sphenomorphini	2017	SHEA 2017	Endemic	0	1	0	0	0	NE	yes		0	0	
<i>Sphenomorphus derooyae</i>	Sphenomorphini	1927	(DE JONG 1927)	Endemic	0	1	0	0	0	LC	yes	yes	0	0	
<i>Sphenomorphus forbesi</i>	Sphenomorphini	1888	(BOULENGER 1888)	Endemic	0	1	0	0	0	LC	yes	yes	0	0	
<i>Sphenomorphus fragilis</i>	Sphenomorphini	1877	(MACLEAY 1877)	Endemic	0	1	0	0	0	LC	yes		0	0	
<i>Sphenomorphus fragosus</i>	Sphenomorphini	1967	GREER & PARKER 1967	Endemic	0	0	0	1	0	DD	yes		0	0	
<i>Sphenomorphus fuscolineatus</i>	Sphenomorphini	2004	GREER & SHEA 2004	Endemic	0	1	0	0	0	LC	yes		0	0	
<i>Sphenomorphus granulatus</i>	Sphenomorphini	1903	(BOULENGER 1903)	Endemic	0	1	0	0	0	LC	yes	yes	0	0	
<i>Sphenomorphus jobiensis</i>	Sphenomorphini	1874	(MEYER 1874)	Endemic	0	1	0	1	0	LC	yes	yes	9	12	
<i>Sphenomorphus latifasciatus</i>	Sphenomorphini	1874	(MEYER 1874)	Endemic	0	1	0	0	0	LC	yes		0	0	
<i>Sphenomorphus leptofasciatus</i>	Sphenomorphini	1974	GREER & PARKER 1974	Endemic	0	1	0	0	0	LC	yes	yes	3	3	
<i>Sphenomorphus longicaudatus</i>	Sphenomorphini	1915	(DE ROOIJ 1915)	Endemic	0	1	0	0	0	LC	yes	yes	0	0	
<i>Sphenomorphus lorae</i>	Sphenomorphini	1897	(BOULENGER 1897)	Endemic	0	1	0	0	0	LC	yes		0	0	
<i>Sphenomorphus</i>	Sphenomorphini	1903	(BOULENGER	Endemic	0	1	0	0	0	LC	yes		3	6	

<i>lousiadensis</i>	i		1903)												
<i>Sphenomorphus maindroni</i>	Sphenomorphini	1879	(SAUVAGE 1879)	Endemic	0	1	0	1	0	LC	yes	yes	2	2	
<i>Sphenomorphus melanopogon</i>	Sphenomorphini	1839	(DUMÉRIL & BIBRON 1839)	Endemic	0	1	0	0	1	LC	yes	yes	3	245	
<i>Sphenomorphus meyeri</i>	Sphenomorphini	1875	(DORIA 1875)	Endemic	0	1	0	0	0	LC	yes	yes	0	0	
<i>Sphenomorphus microtympanum</i>	Sphenomorphini	1973	GREER 1973	Endemic	0	1	0	0	0	LC	yes		0	0	
<i>Sphenomorphus mimikanus</i>	Sphenomorphini	1914	(BOULENGER 1914)	Endemic	0	1	0	0	0	DD	yes		0	0	
<i>Sphenomorphus minutus</i>	Sphenomorphini	1874	(MEYER 1874)	Endemic	0	1	0	0	0	LC	yes	yes	3	3	
<i>Sphenomorphus muelleri</i>	Sphenomorphini	1837	(SCHLEGEL 1837)	Endemic	0	1	0	0	1	LC	yes	yes	5	7	
<i>Sphenomorphus neuhaussi</i>	Sphenomorphini	1911	(VOGT 1911)	Endemic	0	1	0	0	0	LC	yes		0	0	
<i>Sphenomorphus nigriventris</i>	Sphenomorphini	1915	(DE ROOIJ 1915)	Endemic	0	1	0	0	0	LC	yes	yes	8	8	
<i>Sphenomorphus nigrolineatus</i>	Sphenomorphini	1897	(BOULENGER 1897)	Endemic	0	1	0	0	0	LC	yes		0	0	
<i>Sphenomorphus oligolepis</i>	Sphenomorphini	1914	(BOULENGER 1914)	Endemic	0	1	0	0	1	LC	yes	yes	0	0	
<i>Sphenomorphus papuae</i>	Sphenomorphini	1928	(KINGHORN 1928)	Endemic	0	1	0	0	0	LC	yes	yes	0	0	
<i>Sphenomorphus pratti</i>	Sphenomorphini	1903	(BOULENGER 1903)	Endemic	0	1	0	1	0	LC	yes	yes	0	0	
<i>Sphenomorphus rufus</i>	Sphenomorphini	1887	(BOULENGER 1887)	Endemic	0	1	0	0	0	DD	yes		0	0	
<i>Sphenomorphus sanana</i>	Sphenomorphini	1926	(KOPSTEIN 1926)	Endemic	0	0	0	0	1	NE	yes		1	1	
<i>Sphenomorphus schlegeli</i>	Sphenomorphini	1927	(DUNN 1927)	Endemic	0	0	0	0	1	LC	yes		0	0	
<i>Sphenomorphus schultzei</i>	Sphenomorphini	1911	(VOGT 1911)	Endemic	0	1	0	0	0	LC	yes	yes	0	0	
<i>Sphenomorphus scutatus</i>	Sphenomorphini	1867	(PETERS 1867)	Endemic	0	0	1	0	0	LC	yes		7	14	
<i>Sphenomorphus</i>	Sphenomorphini	1879	SAUVAGE 1879	Endemic	0	1	0	1	0	LC	yes		9	12	

<i>simus</i>	i													
<i>Sphenomorphus solomonis</i>	Sphenomorphini	1887	(BOULENGER 1887)	Endemic	0	1	0	1	1	LC	yes	yes	50	70
<i>Sphenomorphus striolatus</i>	Sphenomorphini	1890	(WEBER 1890)	Endemic	0	0	0	0	1	LC	yes		1	2
<i>Sphenomorphus tanneri</i>	Sphenomorphini	1967	GREER & PARKER 1967	Endemic	0	0	0	1	0	LC	yes	yes	0	0
<i>Sphenomorphus taylori</i>	Sphenomorphini	1930	BURT 1930	Endemic	0	0	0	1	0	DD	yes		0	0
<i>Sphenomorphus transversus</i>	Sphenomorphini	1971	GREER & PARKER 1971	Endemic	0	0	0	1	0	DD	yes		0	0
<i>Sphenomorphus undulatus</i>	Sphenomorphini	1878	(PETERS & DORIA 1878)	Endemic	0	1	0	1	0	LC	yes	yes	0	0
<i>Sphenomorphus wau</i>	Sphenomorphini	2021	SHEA & ALLISON 2021	Endemic	0	1	0	0	0	NE	yes		0	0
<i>Sphenomorphus wollastoni</i>	Sphenomorphini	1914	(BOULENGER 1914)	Endemic	0	1	0	0	0	DD	yes	yes	0	0
<i>Sphenomorphus woodfordi</i>	Sphenomorphini	1887	(BOULENGER 1887)	Endemic	0	0	0	1	0	LC	yes		0	0
<i>Tachygyia microlepis</i>	Eugongylini	1839	(DUMÉRIL & BIBRON 1839)	Endemic	0	0	1	0	0	EX			0	0
<i>Tiliqua gigas</i>	Tiliquini	1801	(SCHNEIDER 1801)	Native	0	1	0	1	1	LC			11	26
<i>Tiliqua scincoides</i>	Tiliquini	1790	(HUNTER 1790)	Native	0	0	0	0	1	LC			49	52
<i>Tribolonotus annectens</i>	Tiliquini	1966	ZWEIFEL 1966	Endemic	0	0	0	1	0	DD			0	0
<i>Tribolonotus blanchardi</i>	Tiliquini	1930	BURT 1930	Endemic	0	0	0	1	0	LC			5	10
<i>Tribolonotus brongersmai</i>	Tiliquini	1972	COGGER 1972	Endemic	0	0	0	1	0	DD			5	15
<i>Tribolonotus choiseulensis</i>	Tiliquini	2017	RITTMAYER & AUSTIN 2017	Endemic	0	0	0	1	0	NE			0	0
<i>Tribolonotus gracilis</i>	Tiliquini	1909	DE ROOIJ 1909	Endemic	0	1	0	0	0	LC			10	78
<i>Tribolonotus novaeguineae</i>	Tiliquini	1834	(SCHLEGEL 1834)	Endemic	0	1	0	0	0	LC			7	12
<i>Tribolonotus</i>	Tiliquini	2017	RITTMAYER &	Endemic	0	0	0	1	0	NE			5	25

<i>parkeri</i>			AUSTIN 2017														
<i>Tribolonotus ponceleti</i>	Tiliquini	1937	KINGHORN 1937	Endemic	0	0	0	1	0	DD					5	15	
<i>Tribolonotus pseudoponceleti</i>	Tiliquini	1968	GREER & PARKER 1968	Endemic	0	0	0	1	0	LC					5	40	
<i>Tribolonotus schmidti</i>	Tiliquini	1930	BURT 1930	Endemic	0	0	0	1	0	LC					6	25	
<i>Tropidoscincus aubrianus</i>	Eugongylini	1873	BOCAGE 1873	Endemic	1	0	0	0	0	VU					3	3	
<i>Tropidoscincus boreus</i>	Eugongylini	2000	SADLIER & BAUER 2000	Endemic	1	0	0	0	0	LC					7	10	
<i>Tropidoscincus variabilis</i>	Eugongylini	1869	(BAVAY 1869)	Endemic	1	0	0	0	0	LC					4	11	

Table S2. Sequences used in phylogenetic inference. Each row represents a species, and each column a genetic marker. NCBI genbank accession numbers for all sequences are included in corresponding columns for each marker.

Species	12S	16S	18S	BDNF	BRCA 2	c-mos	COI	CYTB	EXPH 5	KIF24	ND2	ND4	NGFB	PRLR	PTPN 12	R35	RAG-1
<i>Acontias meleagris</i>		AY02 8878.1		GU45 7870.1		DQ24 9061.1		HQ18 0092.1	JQ278 111.1			AY169 637.1	GU43 2735.1	JN880 799.1	JN662 913.1		HQ18 0119.1
<i>Alpinoscincus alpinus</i>	MZ50 5654.1										MZ51 6541.1	MZ516 607.1	MZ51 6674.1			MZ51 6742.1	
<i>Bellatorias frerei</i>	AB028 794.1						MH27 3543.1					KM21 1514.1					
<i>Caesoris novaecaledoniae</i>							KX98 5547.1				DQ67 5252.1						DQ67 5332.1
<i>Caledoniscincus aquilonius</i>						DQ67 5399.1	KX98 5184.1				DQ67 5194.1						DQ67 5274.1
<i>Caledoniscincus atropunctus</i>						DQ67 5401.1	KX98 5201.1				DQ67 5196.1						DQ67 5276.1

<i>Cryptoblepharus poecilopleurus</i>							MH27 3732.1				MH21 6013.1						
<i>Cryptoblepharus rutilus</i>							MH27 3705.1										
<i>Cryptoblepharus yulensis</i>											MH21 6014.1						
<i>Ctenotus robustus</i>	KJ504 953.1	AY16 9618.1				KC575 676.1		GQ86 5831.1			AY66 2548.1	KJ504 860.1			KC57 5808.1	AY66 2630.1	
<i>Ctenotus spaldingi</i>	KJ504 965.1						MH27 3739.1	KJ506 053.1				EU109 228.1					
<i>Emoia adspersa</i>							MH27 3782.1										
<i>Emoia aneityumensis</i>							MH27 3784.1										
<i>Emoia atrocostata</i>	JF497 856.1	JF497 979.1		HQ90 7222.1		JQ610 475.1	MH27 3796.1				KJ574 690.1	JF4984 61.1	JF498 218.1			HQ90 7627.1	JQ610 360.1
<i>Emoia boettgeri</i>							MH27 3799.1				MH12 4071.1						
<i>Emoia caeruleocauda</i>	JF497 858.1	JF497 981.1	AY21 7910.1	HM16 0585.1		AY21 7859.1	MH27 3824.1	AY21 7808.1			JF498 110.1	JF4984 63.1	JF498 220.1	KU85 1580.1	KU34 3299.1	JF498 337.1	HM16 1154.1
<i>Emoia concolor</i>							MH27 3827.1	AF151 657.1									
<i>Emoia cyanogaster</i>	JF497 859.1	JF497 982.1					MH27 3838.1				JF498 111.1	JF4984 64.1	JF498 221.1			JF498 338.1	
<i>Emoia cyanura</i>	AY30 8340.1	AY30 8191.1	AY21 7916.1			JQ610 459.1	MH27 3863.1	AY21 7814.1			JQ610 234.1				KU85 1632.1		JQ610 345.1

<i>Emoia impar</i>	AY81 8740.1					AY81 8777.1	MH27 3888.1	AY81 8810.1				KU85 1364.1			KU85 1642.1		
<i>Emoia isolata</i>								U4933 3.1				KU85 1365.1			KU85 1603.1		
<i>Emoia jakati</i>	AY21 8008.1	AY21 7958.1	AY21 7906.1			JQ610 473.1	MH27 3890.1	AY21 7804.1				JQ610 248.1					JQ610 358.1
<i>Emoia longicauda</i>						JQ610 476.1						JQ610 251.1					JQ610 361.1
<i>Emoia loyaltiensis</i>						DQ67 5411.1	KX98 5515.1					DQ67 5206.1					DQ67 5286.1
<i>Emoia mokolahi</i>							MH27 3894.1										
<i>Emoia mokosari niveikau</i>							MH27 3895.1										
<i>Emoia nigra</i>						JQ610 461.1	MH27 3906.1					JQ610 236.1					JQ610 346.1
<i>Emoia nigromarginata</i>							MH27 3908.1										
<i>Emoia parkeri</i>							MH27 3911.1										
<i>Emoia physicae</i>	AY16 9566.1	AY16 9603.1				AY81 8778.1		AY81 8811.1					AY169 641.1				
<i>Emoia ponapea</i>							MH27 3914.1					KU85 1367.1			KU85 1644.1		
<i>Emoia pseudocyanura</i>								U4933 4.2				KU85 1372.1			KU85 1604.1		
<i>Emoia rufilabialis</i>							MH27 3916.1					KU85 1374.1			KU85 1552.1		

<i>Emoia samoensis</i>							MH27 3918.1										
<i>Emoia sanfordi</i>						JQ610 463.1	MH27 3922.1			JQ610 238.1						JQ610 348.1	
<i>Emoia schmidti</i>	JF497 860.1	JF497 983.1								KU85 1376.1	JF4984 65.1	JF498 222.1	KU85 1545.1		JF498 339.1		
<i>Emoia slevini</i>							MH27 3925.1										
<i>Emoia taumakoenensis</i>							MH27 3927.1			KU85 1380.1			KU85 1629.1				
<i>Emoia tetrataenia</i>						JQ610 470.1				JQ610 245.1						JQ610 355.1	
<i>Emoia tongana</i>							MH27 3934.1	AF151 662.1									
<i>Emoia trossula</i>							MH27 3938.1										
<i>Emoia tuitarere</i>							MH27 3941.1										
<i>Epibator insularis</i>					MG49 5295.1				MG46 0228.1	MG49 5384.1	MG45 6968.1					MG45 7031.1	
<i>Epibator nigrofasciolatus</i>	EU837 125.1	EU837 121.1			MG49 5304.1	DQ67 5356.1	KX98 5549.1		MG46 0208.1	MG49 5367.1	MG45 6935.1	EU837 100.1				MG45 7005.1	
<i>Eugongylus albofasciolatus</i>						JQ610 492.1	MH27 3959.1	AF373 232.1			JQ610 267.1					JQ610 377.1	
<i>Eugongylus rufescens</i>	AY64 9111.1	AY64 9152.1	AY21 7909.1			DQ67 5390.1		AY81 8812.1			DQ67 5253.1	AY169 642.1	JN662 825.1	JN880 835.1	JN662 915.1	JN568 485.1	DQ67 5333.1
<i>Eutropis multifasci</i>	JF497 861.1	MH78 4525.1			KX23 1538.1	AY44 4029.1	OM42 0487.1	AF153 592.1	KX23 1417.1	KX23 1524.1	GU57 3553.1	MH88 6436.1				KX23 1381.1	

<i>ata</i>																	
<i>Glaphyromorphus nigricaudis</i>		KC575 646.1				KC575 695.1									KC57 5828.1		
<i>Graciliscincus shonae</i>					MG49 5319.1	DQ67 5412.1	KX98 5521.1		MG46 0179.1	MG49 5340.1	MG45 6912.1						MG45 6978.1
<i>Kanakysaurus viviparus</i>					MG49 5327.1	DQ67 5349.1	KX98 5511.1		MG46 0186.1	MG49 5347.1	DQ67 5209.1						DQ67 5289.1
<i>Kanakysaurus zebratus</i>							KX98 5513.1										
<i>Lacertoides pardalis</i>					MG49 5316.1	DQ67 5351.1	KX98 5533.1		MG46 0174.1	MG49 5336.1	DQ67 5211.1						DQ67 5291.1
<i>Lamprolepis smaragdina</i>	AY30 8389.1	MK41 4570.1	AY21 7905.1	HQ65 5172.1		JQ610 565.1	MH27 4231.1	AY21 7803.1			JQ610 316.1	AY169 643.1		MK40 9464.1	HQ65 5241.1	MK40 9524.1	JQ610 428.1
<i>Lampropholis delicata</i>	JF438 582.1	JF438 820.1				JQ610 499.1	MH27 4243.1				JF438 107.1	JF4383 44.1					JQ610 384.1
<i>Lioscincus steindachneri</i>	EU837 124.1	EU837 120.1			MG49 5318.1	DQ67 5358.1	KX98 5539.1	EU837 117.1	MG46 0177.1	MG49 5339.1	DQ67 5218.1	EU837 099.1					DQ67 5298.1
<i>Lioscincus vivae</i>						DQ67 5361.1	KX98 5541.1				DQ67 5221.1						DQ67 5301.1
<i>Lipinia leptosoma</i>							MH27 4388.1										
<i>Lipinia longiceps</i>	MZ50 5668.1										MZ51 6555.1	MZ516 621.1	MZ51 6688.1				MZ51 6756.1

<i>Lobulia brongers mai</i>	MZ50 5707.1										MZ51 6593.1	MZ516 660.1	MZ51 6728.1			MZ51 6796.1	
<i>Lobulia elegans</i>	MZ50 5704.1										MZ51 6590.1	MZ516 656.1	MZ51 6724.1			MZ51 6792.1	
<i>Lobulia fortis</i>	MZ50 5645.1										MZ51 6533.1	MZ516 599.1	MZ51 6666.1			MZ51 6734.1	
<i>Lobulia huonensis</i>	MZ50 5696.1										MZ51 6583.1	MZ516 649.1	MZ51 6716.1			MZ51 6784.1	
<i>Lobulia lobulus</i>	MZ50 5679.1										MZ51 6566.1	MZ516 632.1	MZ51 6699.1			MZ51 6767.1	
<i>Lobulia marmorata</i>	MZ50 5706.1										MZ51 6592.1	MZ516 658.1	MZ51 6726.1			MZ51 6794.1	
<i>Lygisaurus curtus</i>								HQ17 2998.1					HQ173 140.1				
<i>Lygisaurus macfarlanei</i>								MH27 4418.1					AJ290 549.1				
<i>Lygisaurus novaeguineae</i>	AY21 8014.1	AY21 7964.1	AY21 7912.1			AY21 7861.1		AY21 7810.1					AJ290 523.1				
<i>Marmorosphax boullinda</i>								KX98 5318.1					KF176 389.1				
<i>Marmorosphax kaala</i>								KX98 5319.1					KF176 382.1				KF130 831.1
<i>Marmorosphax montana</i>					MG49 5315.1	DQ67 5392.1		KX98 5321.1		MG46 0173.1	MG49 5335.1		KF176 405.1				DQ67 5335.1
<i>Marmorosphax</i>								KX98 5323.1					KF176 390.1				

<i>taom</i>																	
<i>Marmorosphax tricolor</i>	EU567 932.1	EU567 925.1				DQ67 5363.1	KX98 5364.1				KF176 543.1						DQ67 5303.1
<i>Nannoscius exos</i>											JX015 441.1						
<i>Nannoscius fuscus</i>							KX98 5384.1				JX015 448.1						
<i>Nannoscius garrulus</i>							KX98 5390.1				DQ67 5261.1						DQ67 5341.1
<i>Nannoscius gracilis</i>						DQ67 5373.1	KX98 5407.1				DQ67 5233.1						DQ67 5313.1
<i>Nannoscius greeri</i>						DQ67 5370.1	KX98 5409.1				DQ67 5230.1						DQ67 5310.1
<i>Nannoscius hanchistus</i>							KX98 5410.1				DQ67 5270.1						KF130 832.1
<i>Nannoscius humectus</i>							KX98 5411.1				DQ67 5269.1						
<i>Nannoscius koniambo</i>							KX98 5413.1										
<i>Nannoscius manautei</i>							KX98 5414.1				JX015 465.1						
<i>Nannoscius mariei</i>	EU567 933.1	EU567 924.1				DQ67 5372.1	KX98 5418.1	EU567 832.1	MG46 0178.1		DQ67 5232.1	EU423 130.1					DQ67 5312.1

<i>Nannoscincus rankini</i>							KX98 5419.1				JX015 473.1					
<i>Nannoscincus slevini</i>							KX98 5423.1				DQ67 5256.1					DQ67 5336.1
<i>Nubeoscincus glacialis</i>	MZ50 5641.1										MZ51 6528.1	MZ516 594.1	MZ51 6661.1			MZ51 6729.1
<i>Ornithuroscincus bengaun</i>	MZ50 5666.1										MZ51 6553.1	MZ516 619.1	MZ51 6686.1			MZ51 6754.1
<i>Ornithuroscincus inornatus</i>	MZ50 5647.1										MZ51 6534.1	MZ516 600.1	MZ51 6667.1			MZ51 6735.1
<i>Ornithuroscincus noctua</i>	MZ50 5681.1			HQ65 5175.1		HQ65 5210.1	MH27 4404.1				MZ51 6568.1	MZ516 634.1	MZ51 6701.1		HQ65 5243.1	MZ51 6769.1
<i>Ornithuroscincus pterophilus</i>	MZ50 5657.1										MZ51 6544.1	MZ516 610.1	MZ51 6677.1			MZ51 6745.1
<i>Ornithuroscincus sabini</i>	MZ50 5699.1										MZ51 6586.1	MZ516 651.1	MZ51 6719.1			MZ51 6787.1
<i>Ornithuroscincus shearmani</i>	MZ50 5663.1										MZ51 6550.1	MZ516 616.1	MZ51 6683.1			MZ51 6751.1
<i>Ornithuroscincus viridis</i>	MZ50 5677.1										MZ51 6564.1	MZ516 630.1	MZ51 6697.1			MZ51 6765.1
<i>Palaipulchra</i>	MN87 0698.1										MN87 0763.1	MN87 0828.1	MN87 0893.1			MN87 0958.1

<i>Papuasci ncus stanleyan us</i>	JF497 877.1	JF498 000.1									JF498 129.1	JF4984 80.1	JF498 235.1			JF498 356.1	
<i>Phaeosci ncus taomensis</i>						KX98 5509.1											
<i>Phasmas aurus maruia</i>					MG49 5320.1	DQ67 5354.1	KX98 5543.1		MG46 0180.1	MG49 5341.1	DQ67 5214.1						DQ67 5294.1
<i>Phasmas aurus tillieri</i>	EU567 929.1	EU567 923.1			MG49 5321.1	DQ67 5360.1	KX98 5546.1	EU567 833.1	MG46 0181.1	MG49 5337.1	MG45 6914.1	EU567 729.1					MG45 6980.1
<i>Phobosci ncus bocourti</i>	KF589 948.1	KF589 952.1									KF130 806.1						KF130 833.1
<i>Phobosci ncus garnieri</i>						DQ67 5377.1	KX98 5564.1				DQ67 5237.1						DQ67 5317.1
<i>Prasinoh aema flavipes</i>	MZ50 5682.1										MZ51 6569.1	MZ516 635.1	MZ51 6702.1				MZ51 6770.1
<i>Prasinoh aema prehensic auda</i>	MZ50 5697.1										MZ51 6584.1		MZ51 6717.1				MZ51 6785.1
<i>Prasinoh aema semoni</i>	MZ50 5648.1										MZ51 6535.1	MZ516 601.1	MZ51 6668.1				MZ51 6736.1
<i>Prasinoh aema virens</i>	MZ50 5649.1	AY16 9633.1		KP843 154.1		HQ65 5219.1					MZ51 6536.1	MZ516 602.1	MZ51 6669.1		HQ65 5252.1		MZ51 6737.1
<i>Sigalosep s balios</i>							KX98 5428.1				KC164 636.1						

<i>Sigaloseps conditus</i>							KX98 5431.1				KC164 618.1						
<i>Sigaloseps deplanchei</i>					MG49 5322.1	DQ67 5378.1	KX98 5466.1		MG46 0182.1	MG49 5342.1	DQ67 5238.1						DQ67 5318.1
<i>Sigaloseps ferrugicauda</i>							KX98 5468.1				KC164 633.1						
<i>Sigaloseps pisinnus</i>							KX98 5481.1				KC164 631.1						
<i>Sigaloseps ruficauda</i>						DQ67 5379.1	KX98 5482.1				DQ67 5239.1						DQ67 5319.1
<i>Simiscincus aurantiacus</i>					MG49 5323.1	JQ610 562.1	KX98 5566.1		MG46 0183.1	MG49 5343.1	JQ610 313.1						JQ610 426.1
<i>Sphenomorphus bignelli</i>						JQ610 477.1					JQ610 252.1						JQ610 362.1
<i>Sphenomorphus concinnatus</i>	JF497 951.1	JF498 081.1									JF498 190.1	JF4985 54.1	JF498 308.1				JF498 433.1
<i>Sphenomorphus cranei</i>	JF497 953.1	JF498 083.1									JF498 192.1	JF4985 56.1	JF498 310.1				JF498 435.1
<i>Sphenomorphus jobiensis</i>	AY30 8457.1	AY30 8306.1		HQ65 5190.1		DQ67 5395.1		AF151 648.1			DQ67 5258.1	DQ915 339.1				HQ65 5257.1	

<i>Sphenomorphus leptofasciatus</i>						AF039 464.1		AF373 233.1			AF373 263.1						
<i>Sphenomorphus louisianensis</i>						JQ610 496.1					JQ610 271.1						JQ610 381.1
<i>Sphenomorphus maindroni</i>	AY30 8462.1	AY30 8311.1															
<i>Sphenomorphus melanopogon</i>	AY30 8463.1	AY30 8312.1										MW29 1814.1					
<i>Sphenomorphus minutus</i>						JQ610 478.1					JQ610 253.1						JQ610 363.1
<i>Sphenomorphus muelleri</i>	AY30 8464.1	AY30 8313.1										AY169 674.1					
<i>Sphenomorphus nigriventris</i>				KP843 155.1									KP843 166.1				
<i>Sphenomorphus sanana</i>											KY98 9394.1						
<i>Sphenomorphus scutatus</i>	JF497 963.1							MH27 4677.1			JF498 202.1	JF4985 66.1	JF498 320.1				JF498 445.1
<i>Sphenomorphus simus</i>	AY21 8017.1	AY21 7967.1	AY21 7915.1	EU108 365.1		EU116 688.1		EU116 518.1				KC621 631.1					

<i>Sphenomorphus solomonis</i>	JF497 965.1	JF498 095.1		JN654 802.1		HQ65 5224.1	MH27 4683.1				JF498 204.1	JF4985 68.1	JF498 322.1	JN880 878.1	JN662 917.1	JF498 447.1	
<i>Sphenomorphus striolatus</i>												MW29 1705.1					
<i>Tiliqua gigas</i>	AB028 795.1		AY21 7913.1			HM22 9557.1		HM22 9513.1			HM22 9469.1						
<i>Tiliqua scincoides</i>	AF090 187.1	AF544 824.1		JN654 804.1		DQ67 5388.1	MH27 4716.1	MN27 0234.1			DQ67 5249.1	KM21 1512.1	JN662 828.1		JN662 918.1	JN568 504.1	DQ67 5329.1
<i>Tribolonus blanchardi</i>						HM22 9537.1		HM22 9493.1			HM22 9449.1						
<i>Tribolonus brongersmai</i>						HM22 9532.1		HM22 9488.1			HM22 9444.1						
<i>Tribolonus gracilis</i>	AY30 8471.1	AY30 8320.1		HQ65 5193.1		HM22 9572.1		HM22 9528.1			HM22 9484.1	AY169 649.1			HQ65 5260.1		
<i>Tribolonus novaeguineae</i>	AY30 8472.1	AY30 8321.1				HM22 9567.1		HM22 9489.1			HM22 9479.1						
<i>Tribolonus parkeri</i>						HM22 9548.1		HM22 9504.1			HM22 9460.1						
<i>Tribolonus ponceleti</i>						HM22 9566.1		HM22 9522.1			HM22 9478.1						
<i>Tribolonus tus</i>						HM22 9543.1		HM22 9499.1			HM22 9455.1						

<i>pseudoponceleti</i>																	
<i>Tribolonus schmidti</i>						HM22 9571.1	MH27 4731.1	HM22 9527.1			HM22 9483.1						
<i>Tropidocincus aubrianus</i>							KX98 5532.1				DQ67 5260.1						DQ67 5340.1
<i>Tropidocincus boreus</i>					MG49 5306.1	DQ67 5381.1	KX98 5526.1		MG46 0189.1	MG49 5349.1	DQ67 5241.1						DQ67 5321.1
<i>Tropidocincus variabilis</i>						DQ67 5382.1	KX98 5530.1				DQ67 5242.1						DQ67 5322.1

Table S3. Partitions and best-selected substitution models for the full, mtDNA, and nDNA datasets.

Partition	Model
Full Dataset	
<i>12S, ND4_1</i>	GTR+F+I+R4
<i>16S</i>	GTR+F+I+G4
<i>18S, BDNF_1, BDNF_2</i>	TPM3+I
<i>BDNF_3, c-mos_1, c-mos_2, KIF24_1, KIF24_2, NGFB_1, NGFB_2, PTNPI2_1, PTNPI2_2, R35_1, R35_2, RAG1_1</i>	TPM3u+F+G4
<i>BRCA2_1, BRCA2_3</i>	TPM3u+F+G4
<i>BRCA2_2, c-mos_3, EXPH5_1, EXPH5_2, EXPH5_3, PRLR1_1, PRLR1_2, PRLR1_3, PTPNI2_3, RAG1_2, RAG1_3</i>	K3Pu+F+I+R2
<i>COI_1</i>	GTR+F+I+G4
<i>COI_2, CYTB_2</i>	K3Pu+F+R2
<i>COI_3, ND2_1</i>	GTR+F+I+R5
<i>CYTB_1, ND4_2</i>	GTR+F+I+G4
<i>CYTB_3</i>	GTR+F+I+G4
<i>KIF24_3, NGFB_3, R35_3</i>	K3Pu+F+G4
<i>ND2_2</i>	GTR+F+I+G4
<i>ND2_3, ND4_3</i>	TIM3+F+ASC+R4
mtDNA Dataset	
<i>12S, ND4_1</i>	GTR+F+I+R4
<i>16S</i>	GTR+F+I+G4
<i>18S</i>	TIM3+F+I
<i>COI_1</i>	GTR+F+I+G4
<i>COI_2, CYTB_2</i>	K3Pu+F+R2
<i>COI_3, ND2_1</i>	GTR+F+I+R5
<i>CYTB_1, ND4_2</i>	TVM+F+R3
<i>CYTB_3</i>	GTR+F+I+G4
<i>ND2_2</i>	GTR+F+I+G4
<i>ND2_3</i>	GTR+F+ASC+G4
<i>ND4_3</i>	GTR+F+ASC+G4
nDNA Dataset	
<i>BDNF_1, BDNF_2</i>	JC

<i>BDNF_3, c-mos_1, c-mos_2, KIF24_1, KIF24_2, NGFB_2, PTNP12_1, PTNP12_2, PTPNI2_3, R35_1, R35_2</i>	K2P+R2
<i>BRCA2_1, BRCA2_2, EXPH5_2</i>	K3Pu+F+R2
<i>BRCA2_3, EXPH5_3, PRLR_3</i>	K3Pu+F+R2
<i>c-mos_3, NGFB_3, RAG1_2, RAG1_3</i>	TPM2u+F+R3
<i>EXPH5_1, NGFB_1, PRLR_1, PRLR_2, RAG1_1</i>	HKY+F+G4
<i>KIF24_3</i>	TPM3+R2
<i>R35_3</i>	TIM2+F+G4

Table S4. Number of genetic markers of mtDNA and nDNA for each species, including a percentage of the total markers included in the study (7 for mtDNA and 10 for nDNA).

Species	Tribe	mtDNA markers	nDNA markers
<i>Acontias meleagris</i>	NA	3 (42.9%)	7 (63.6%)
<i>Alpinoscincus alpinus</i>	Sphenomorphini	3 (42.9%)	2 (18.2%)
<i>Bellatorias frerei</i>	Tiliquini	2 (28.6%)	0 (0.0%)
<i>Caesoris novaecaledoniae</i>	Eugongylini	2 (28.6%)	1 (9.1%)
<i>Caledoniscincus aquilonius</i>	Eugongylini	2 (28.6%)	2 (18.2%)
<i>Caledoniscincus atropunctatus</i>	Eugongylini	2 (28.6%)	2 (18.2%)
<i>Caledoniscincus auratus</i>	Eugongylini	2 (28.6%)	2 (18.2%)
<i>Caledoniscincus austrocaledonicus</i>	Eugongylini	6 (85.7%)	7 (63.6%)
<i>Caledoniscincus bodoi</i>	Eugongylini	2 (28.6%)	4 (36.4%)
<i>Caledoniscincus chazeaui</i>	Eugongylini	2 (28.6%)	0 (0.0%)
<i>Caledoniscincus constellatus</i>	Eugongylini	2 (28.6%)	0 (0.0%)
<i>Caledoniscincus cryptos</i>	Eugongylini	2 (28.6%)	0 (0.0%)
<i>Caledoniscincus festivus</i>	Eugongylini	2 (28.6%)	5 (45.5%)
<i>Caledoniscincus haplorhinus</i>	Eugongylini	2 (28.6%)	5 (45.5%)
<i>Caledoniscincus notialis</i>	Eugongylini	2 (28.6%)	4 (36.4%)
<i>Caledoniscincus orestes</i>	Eugongylini	2 (28.6%)	2 (18.2%)
<i>Caledoniscincus pelletieri</i>	Eugongylini	1 (14.3%)	0 (0.0%)
<i>Caledoniscincus renevieri</i>	Eugongylini	2 (28.6%)	1 (9.1%)
<i>Caledoniscincus terma</i>	Eugongylini	2 (28.6%)	0 (0.0%)
<i>Carinascincus metallicus</i>	Eugongylini	4 (57.1%)	3 (27.3%)
<i>Carlia aenigma</i>	Eugongylini	2 (28.6%)	0 (0.0%)
<i>Carlia ailanpalai</i>	Eugongylini	3 (42.9%)	0 (0.0%)
<i>Carlia bicarinata</i>	Eugongylini	3 (42.9%)	1 (9.1%)
<i>Carlia eothen</i>	Eugongylini	2 (28.6%)	0 (0.0%)
<i>Carlia fusca</i>	Eugongylini	3 (42.9%)	1 (9.1%)
<i>Carlia luctuosa</i>	Eugongylini	2 (28.6%)	0 (0.0%)
<i>Carlia mysi</i>	Eugongylini	3 (42.9%)	1 (9.1%)

<i>Carlia pulla</i>	Eugongylini	2 (28.6%)	0 (0.0%)
<i>Carlia quinquecarinata</i>	Eugongylini	1 (14.3%)	0 (0.0%)
<i>Carlia storri</i>	Eugongylini	3 (42.9%)	1 (9.1%)
<i>Carlia tutela</i>	Eugongylini	1 (14.3%)	0 (0.0%)
<i>Celatiscincus euryotis</i>	Eugongylini	2 (28.6%)	2 (18.2%)
<i>Celatiscincus similis</i>	Eugongylini	2 (28.6%)	2 (18.2%)
<i>Corucia zebrata</i>	Tiliquini	4 (57.1%)	2 (18.2%)
<i>Cryptoblepharus burdeni</i>	Eugongylini	1 (14.3%)	0 (0.0%)
<i>Cryptoblepharus eximius</i>	Eugongylini	1 (14.3%)	0 (0.0%)
<i>Cryptoblepharus keiensis</i>	Eugongylini	1 (14.3%)	0 (0.0%)
<i>Cryptoblepharus leschenault</i>	Eugongylini	1 (14.3%)	0 (0.0%)
<i>Cryptoblepharus novaeguineae</i>	Eugongylini	1 (14.3%)	0 (0.0%)
<i>Cryptoblepharus novocaledonicus</i>	Eugongylini	4 (57.1%)	6 (54.5%)
<i>Cryptoblepharus novohebridicus</i>	Eugongylini	1 (14.3%)	0 (0.0%)
<i>Cryptoblepharus poecilopleurus</i>	Eugongylini	2 (28.6%)	0 (0.0%)
<i>Cryptoblepharus rutilus</i>	Eugongylini	1 (14.3%)	0 (0.0%)
<i>Cryptoblepharus yulensis</i>	Eugongylini	1 (14.3%)	0 (0.0%)
<i>Ctenotus robustus</i>	Sphenomorphini	5 (71.4%)	3 (27.3%)
<i>Ctenotus spaldingi</i>	Sphenomorphini	4 (57.1%)	0 (0.0%)
<i>Emoia adspersa</i>	Eugongylini	1 (14.3%)	0 (0.0%)
<i>Emoia aneityumensis</i>	Eugongylini	1 (14.3%)	0 (0.0%)
<i>Emoia atrocostata</i>	Eugongylini	5 (71.4%)	5 (45.5%)
<i>Emoia boettgeri</i>	Eugongylini	2 (28.6%)	0 (0.0%)
<i>Emoia caeruleocauda</i>	Eugongylini	7 (100.0%)	7 (63.6%)
<i>Emoia concolor</i>	Eugongylini	2 (28.6%)	0 (0.0%)
<i>Emoia cyanogaster</i>	Eugongylini	5 (71.4%)	2 (18.2%)
<i>Emoia cyanura</i>	Eugongylini	6 (85.7%)	3 (27.3%)
<i>Emoia impar</i>	Eugongylini	4 (57.1%)	2 (18.2%)
<i>Emoia isolata</i>	Eugongylini	2 (28.6%)	1 (9.1%)
<i>Emoia jakati</i>	Eugongylini	6 (85.7%)	2 (18.2%)
<i>Emoia longicauda</i>	Eugongylini	1 (14.3%)	2 (18.2%)

<i>Emoia loyaltiensis</i>	Eugongylini	2 (28.6%)	2 (18.2%)
<i>Emoia mokolahi</i>	Eugongylini	1 (14.3%)	0 (0.0%)
<i>Emoia mokosariniveikau</i>	Eugongylini	1 (14.3%)	0 (0.0%)
<i>Emoia nigra</i>	Eugongylini	2 (28.6%)	2 (18.2%)
<i>Emoia nigromarginata</i>	Eugongylini	1 (14.3%)	0 (0.0%)
<i>Emoia parkeri</i>	Eugongylini	1 (14.3%)	0 (0.0%)
<i>Emoia physicae</i>	Eugongylini	4 (57.1%)	1 (9.1%)
<i>Emoia ponapea</i>	Eugongylini	2 (28.6%)	1 (9.1%)
<i>Emoia pseudocyanura</i>	Eugongylini	2 (28.6%)	1 (9.1%)
<i>Emoia rufilabialis</i>	Eugongylini	2 (28.6%)	1 (9.1%)
<i>Emoia samoensis</i>	Eugongylini	1 (14.3%)	0 (0.0%)
<i>Emoia sanfordi</i>	Eugongylini	2 (28.6%)	2 (18.2%)
<i>Emoia schmidtii</i>	Eugongylini	4 (57.1%)	3 (27.3%)
<i>Emoia slevini</i>	Eugongylini	1 (14.3%)	0 (0.0%)
<i>Emoia taumakoensis</i>	Eugongylini	2 (28.6%)	1 (9.1%)
<i>Emoia tetrataenia</i>	Eugongylini	1 (14.3%)	2 (18.2%)
<i>Emoia tongana</i>	Eugongylini	2 (28.6%)	0 (0.0%)
<i>Emoia trossula</i>	Eugongylini	1 (14.3%)	0 (0.0%)
<i>Emoia tuitarere</i>	Eugongylini	1 (14.3%)	0 (0.0%)
<i>Epibator insularis</i>	Eugongylini	1 (14.3%)	4 (36.4%)
<i>Epibator nigrofasciolatus</i>	Eugongylini	5 (71.4%)	5 (45.5%)
<i>Eugongylus albofasciolatus</i>	Eugongylini	3 (42.9%)	2 (18.2%)
<i>Eugongylus rufescens</i>	Eugongylini	6 (85.7%)	6 (54.5%)
<i>Eutropis multifasciata</i>	Mabuyini	6 (85.7%)	5 (45.5%)
<i>Glaphyromorphus nigricaudis</i>	Sphenomorphini	1 (14.3%)	2 (18.2%)
<i>Graciliscincus shonae</i>	Eugongylini	2 (28.6%)	5 (45.5%)
<i>Kanakysaurus viviparus</i>	Eugongylini	2 (28.6%)	5 (45.5%)
<i>Kanakysaurus zebratus</i>	Eugongylini	1 (14.3%)	0 (0.0%)
<i>Lacertoides pardalis</i>	Eugongylini	2 (28.6%)	5 (45.5%)
<i>Lamprolepis smaragdina</i>	Lygosomini	7 (100.0%)	6 (54.5%)
<i>Lampropholis delicata</i>	Eugongylini	5 (71.4%)	2 (18.2%)

<i>Lioscincus steindachneri</i>	Eugongylini	6 (85.7%)	5 (45.5%)
<i>Lioscincus vivae</i>	Eugongylini	2 (28.6%)	2 (18.2%)
<i>Lipinia leptosoma</i>	Sphenomorphini	1 (14.3%)	0 (0.0%)
<i>Lipinia longiceps</i>	Sphenomorphini	3 (42.9%)	2 (18.2%)
<i>Lobulia brongersmai</i>	Sphenomorphini	3 (42.9%)	2 (18.2%)
<i>Lobulia elegans</i>	Sphenomorphini	3 (42.9%)	2 (18.2%)
<i>Lobulia fortis</i>	Sphenomorphini	3 (42.9%)	2 (18.2%)
<i>Lobulia huonensis</i>	Sphenomorphini	3 (42.9%)	2 (18.2%)
<i>Lobulia lobulus</i>	Sphenomorphini	3 (42.9%)	2 (18.2%)
<i>Lobulia marmorata</i>	Sphenomorphini	3 (42.9%)	2 (18.2%)
<i>Lygisaurus curtus</i>	Eugongylini	2 (28.6%)	0 (0.0%)
<i>Lygisaurus macfarlani</i>	Eugongylini	2 (28.6%)	0 (0.0%)
<i>Lygisaurus novaeguineae</i>	Eugongylini	5 (71.4%)	2 (18.2%)
<i>Marmorosphax boullinda</i>	Eugongylini	2 (28.6%)	0 (0.0%)
<i>Marmorosphax kaala</i>	Eugongylini	2 (28.6%)	1 (9.1%)
<i>Marmorosphax montana</i>	Eugongylini	2 (28.6%)	5 (45.5%)
<i>Marmorosphax taom</i>	Eugongylini	2 (28.6%)	0 (0.0%)
<i>Marmorosphax tricolor</i>	Eugongylini	4 (57.1%)	2 (18.2%)
<i>Nannoscincus exos</i>	Eugongylini	1 (14.3%)	0 (0.0%)
<i>Nannoscincus fuscus</i>	Eugongylini	2 (28.6%)	0 (0.0%)
<i>Nannoscincus garrulus</i>	Eugongylini	2 (28.6%)	1 (9.1%)
<i>Nannoscincus gracilis</i>	Eugongylini	2 (28.6%)	2 (18.2%)
<i>Nannoscincus greeri</i>	Eugongylini	2 (28.6%)	2 (18.2%)
<i>Nannoscincus hanchisteus</i>	Eugongylini	2 (28.6%)	1 (9.1%)
<i>Nannoscincus humectus</i>	Eugongylini	2 (28.6%)	0 (0.0%)
<i>Nannoscincus koniambo</i>	Eugongylini	1 (14.3%)	0 (0.0%)
<i>Nannoscincus manautei</i>	Eugongylini	2 (28.6%)	0 (0.0%)
<i>Nannoscincus mariei</i>	Eugongylini	6 (85.7%)	3 (27.3%)
<i>Nannoscincus rankini</i>	Eugongylini	2 (28.6%)	0 (0.0%)
<i>Nannoscincus slevini</i>	Eugongylini	2 (28.6%)	1 (9.1%)
<i>Nubeoscincus glacialis</i>	Sphenomorphini	3 (42.9%)	2 (18.2%)

<i>Ornithuroscincus bengalun</i>	Sphenomorphini	3 (42.9%)	2 (18.2%)
<i>Ornithuroscincus inornatus</i>	Sphenomorphini	3 (42.9%)	2 (18.2%)
<i>Ornithuroscincus noctua</i>	Sphenomorphini	4 (57.1%)	5 (45.5%)
<i>Ornithuroscincus pterophilus</i>	Sphenomorphini	3 (42.9%)	2 (18.2%)
<i>Ornithuroscincus sabini</i>	Sphenomorphini	3 (42.9%)	2 (18.2%)
<i>Ornithuroscincus shearmani</i>	Sphenomorphini	3 (42.9%)	2 (18.2%)
<i>Ornithuroscincus viridis</i>	Sphenomorphini	3 (42.9%)	2 (18.2%)
<i>Palaia pulchra</i>	Sphenomorphini	3 (42.9%)	2 (18.2%)
<i>Papuascincus stanleyanus</i>	Sphenomorphini	4 (57.1%)	2 (18.2%)
<i>Phaeoscincus taomensis</i>	Eugongylini	1 (14.3%)	0 (0.0%)
<i>Phasmasaurus maruia</i>	Eugongylini	2 (28.6%)	5 (45.5%)
<i>Phasmasaurus tillieri</i>	Eugongylini	6 (85.7%)	5 (45.5%)
<i>Phoboscincus bocourti</i>	Eugongylini	3 (42.9%)	1 (9.1%)
<i>Phoboscincus garnieri</i>	Eugongylini	2 (28.6%)	2 (18.2%)
<i>Prasinochaema flavipes</i>	Sphenomorphini	3 (42.9%)	2 (18.2%)
<i>Prasinochaema prehensicauda</i>	Sphenomorphini	2 (28.6%)	2 (18.2%)
<i>Prasinochaema semoni</i>	Sphenomorphini	3 (42.9%)	2 (18.2%)
<i>Prasinochaema virens</i>	Sphenomorphini	4 (57.1%)	5 (45.5%)
<i>Sigaloseps balios</i>	Eugongylini	2 (28.6%)	0 (0.0%)
<i>Sigaloseps conditus</i>	Eugongylini	2 (28.6%)	0 (0.0%)
<i>Sigaloseps deplanchei</i>	Eugongylini	2 (28.6%)	5 (45.5%)
<i>Sigaloseps ferrugicauda</i>	Eugongylini	2 (28.6%)	0 (0.0%)
<i>Sigaloseps pisinnus</i>	Eugongylini	2 (28.6%)	0 (0.0%)
<i>Sigaloseps ruficauda</i>	Eugongylini	2 (28.6%)	2 (18.2%)
<i>Simiscincus aurantiacus</i>	Eugongylini	2 (28.6%)	5 (45.5%)
<i>Sphenomorphus bignelli</i>	Sphenomorphini	1 (14.3%)	2 (18.2%)
<i>Sphenomorphus concinnatus</i>	Sphenomorphini	4 (57.1%)	2 (18.2%)
<i>Sphenomorphus cranei</i>	Sphenomorphini	4 (57.1%)	2 (18.2%)
<i>Sphenomorphus jobiensis</i>	Sphenomorphini	5 (71.4%)	3 (27.3%)
<i>Sphenomorphus leptofasciatus</i>	Sphenomorphini	2 (28.6%)	1 (9.1%)
<i>Sphenomorphus louisianensis</i>	Sphenomorphini	1 (14.3%)	2 (18.2%)

<i>Sphenomorphus maindroni</i>	Sphenomorphini	2 (28.6%)	0 (0.0%)
<i>Sphenomorphus melanopogon</i>	Sphenomorphini	3 (42.9%)	0 (0.0%)
<i>Sphenomorphus minutus</i>	Sphenomorphini	1 (14.3%)	2 (18.2%)
<i>Sphenomorphus muelleri</i>	Sphenomorphini	3 (42.9%)	0 (0.0%)
<i>Sphenomorphus nigriventris</i>	Sphenomorphini	0 (0.0%)	2 (18.2%)
<i>Sphenomorphus sanana</i>	Sphenomorphini	1 (14.3%)	0 (0.0%)
<i>Sphenomorphus scutatus</i>	Sphenomorphini	4 (57.1%)	2 (18.2%)
<i>Sphenomorphus simus</i>	Sphenomorphini	5 (71.4%)	2 (18.2%)
<i>Sphenomorphus solomonis</i>	Sphenomorphini	5 (71.4%)	6 (54.5%)
<i>Sphenomorphus striolatus</i>	Sphenomorphini	1 (14.3%)	0 (0.0%)
<i>Tiliqua gigas</i>	Tiliquini	4 (57.1%)	1 (9.1%)
<i>Tiliqua scincoides</i>	Tiliquini	5 (71.4%)	6 (54.5%)
<i>Tribolonotus blanchardi</i>	Tiliquini	2 (28.6%)	1 (9.1%)
<i>Tribolonotus brongersmai</i>	Tiliquini	2 (28.6%)	1 (9.1%)
<i>Tribolonotus gracilis</i>	Tiliquini	5 (71.4%)	3 (27.3%)
<i>Tribolonotus novaeguineae</i>	Tiliquini	4 (57.1%)	1 (9.1%)
<i>Tribolonotus parkeri</i>	Tiliquini	2 (28.6%)	1 (9.1%)
<i>Tribolonotus ponceleti</i>	Tiliquini	2 (28.6%)	1 (9.1%)
<i>Tribolonotus pseudoponceleti</i>	Tiliquini	2 (28.6%)	1 (9.1%)
<i>Tribolonotus schmidti</i>	Tiliquini	3 (42.9%)	1 (9.1%)
<i>Tropidoscincus aubrianus</i>	Eugongylini	2 (28.6%)	1 (9.1%)
<i>Tropidoscincus boreus</i>	Eugongylini	2 (28.6%)	5 (45.5%)
<i>Tropidoscincus variabilis</i>	Eugongylini	2 (28.6%)	2 (18.2%)

Figure S1. Comparison of ML phylogenies generated in IQ-TREE using the full concatenated gene dataset (17 loci, 11761 bp, 174 spp), the mtDNA concatenated dataset (7 loci, 4771 bp, 173 spp), and the nDNA concatenated dataset (10 loci, 6990 bp, 112 spp). All comparisons are presented using cophylo plots, with edges connected by colored lines. Support values are shown at the nodes for ultrafast bootstrap (UFBoot): filled grey circles represent statistically supported nodes (UFBoot \geq 95%) and empty circles represent unsupported nodes (UFBoot < 95%). (A) Comparison between the full dataset (left) and mtDNA dataset (right). (B) Comparison between the full dataset (left) and nDNA dataset (right). (C) Comparison between the mtDNA dataset (left) and the nDNA dataset (right).

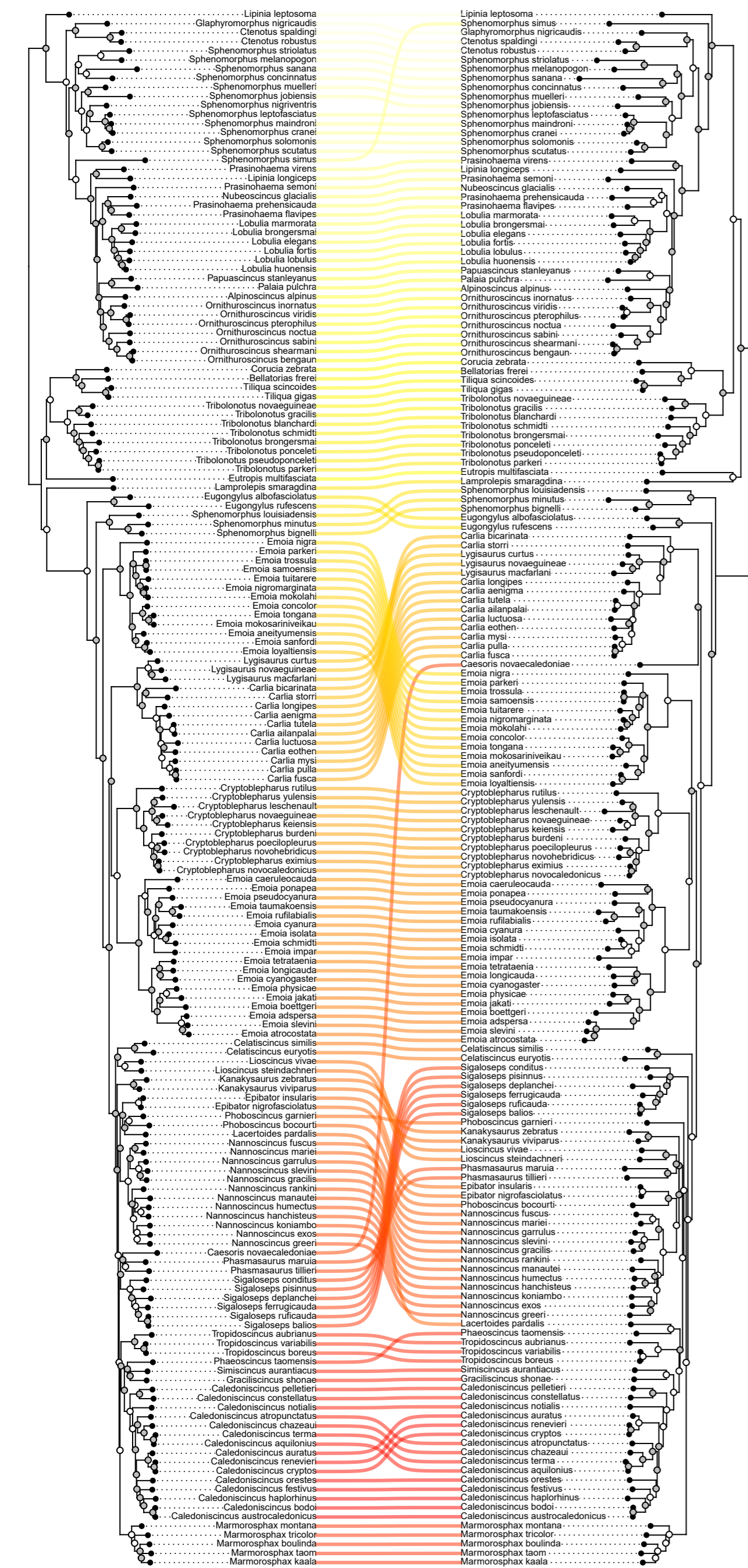
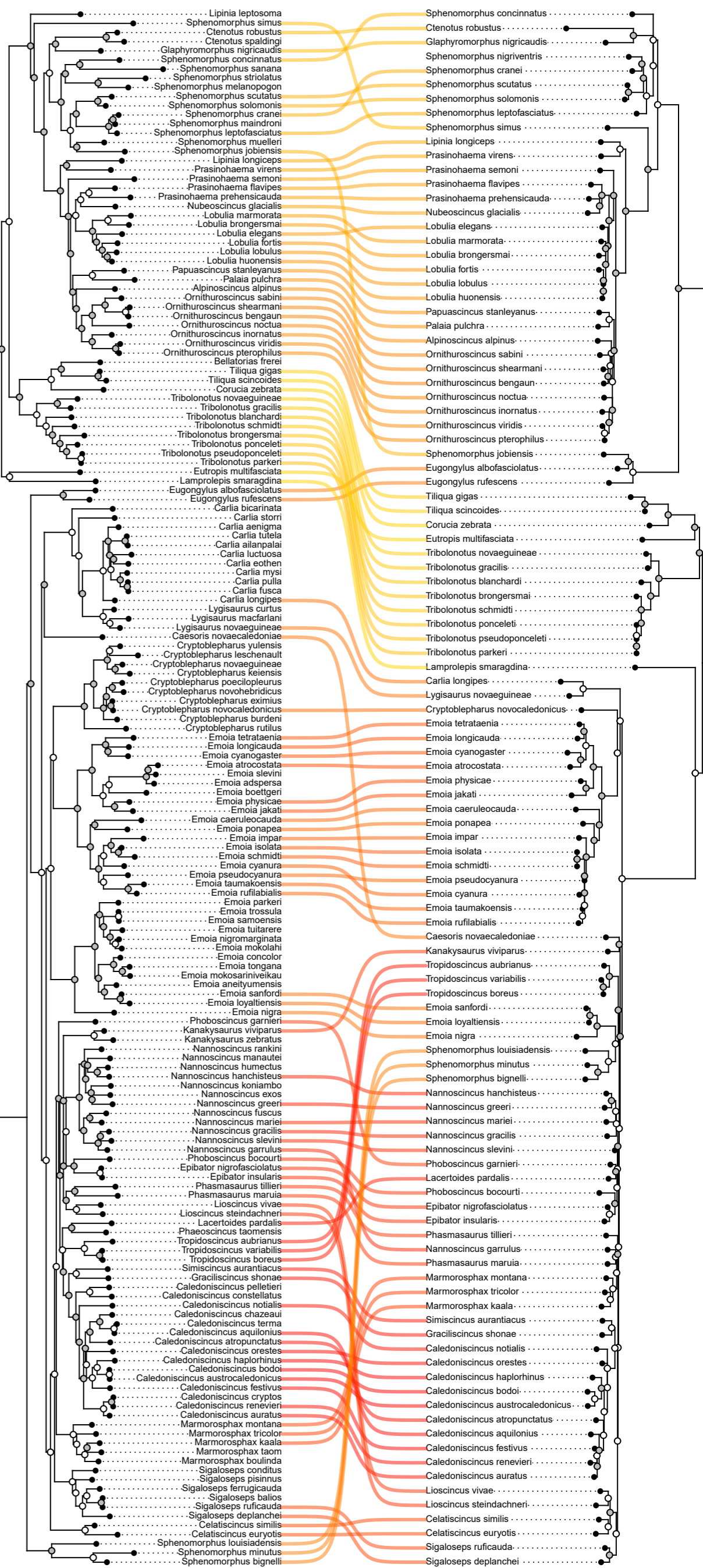
Figure S2. Comparison of ML phylogenies generated in RAxML using the full concatenated gene dataset (17 loci, 11761 bp, 174 spp), the mtDNA concatenated dataset (7 loci, 4771 bp, 173 spp), and the nDNA concatenated dataset (10 loci, 6990 bp, 112 spp). All comparisons are presented using cophylo plots, with edges connected by colored lines. Support values are shown at the nodes for rapid bootstrap (BS): filled grey circles represent statistically supported nodes (BS \geq 80%) and empty circles represent unsupported nodes (BS < 80%). (A) Comparison between the full dataset (left) and mtDNA dataset (right). (B) Comparison between the full dataset (left) and nDNA dataset (right). (C) Comparison between the mtDNA dataset (left) and the nDNA dataset (right).

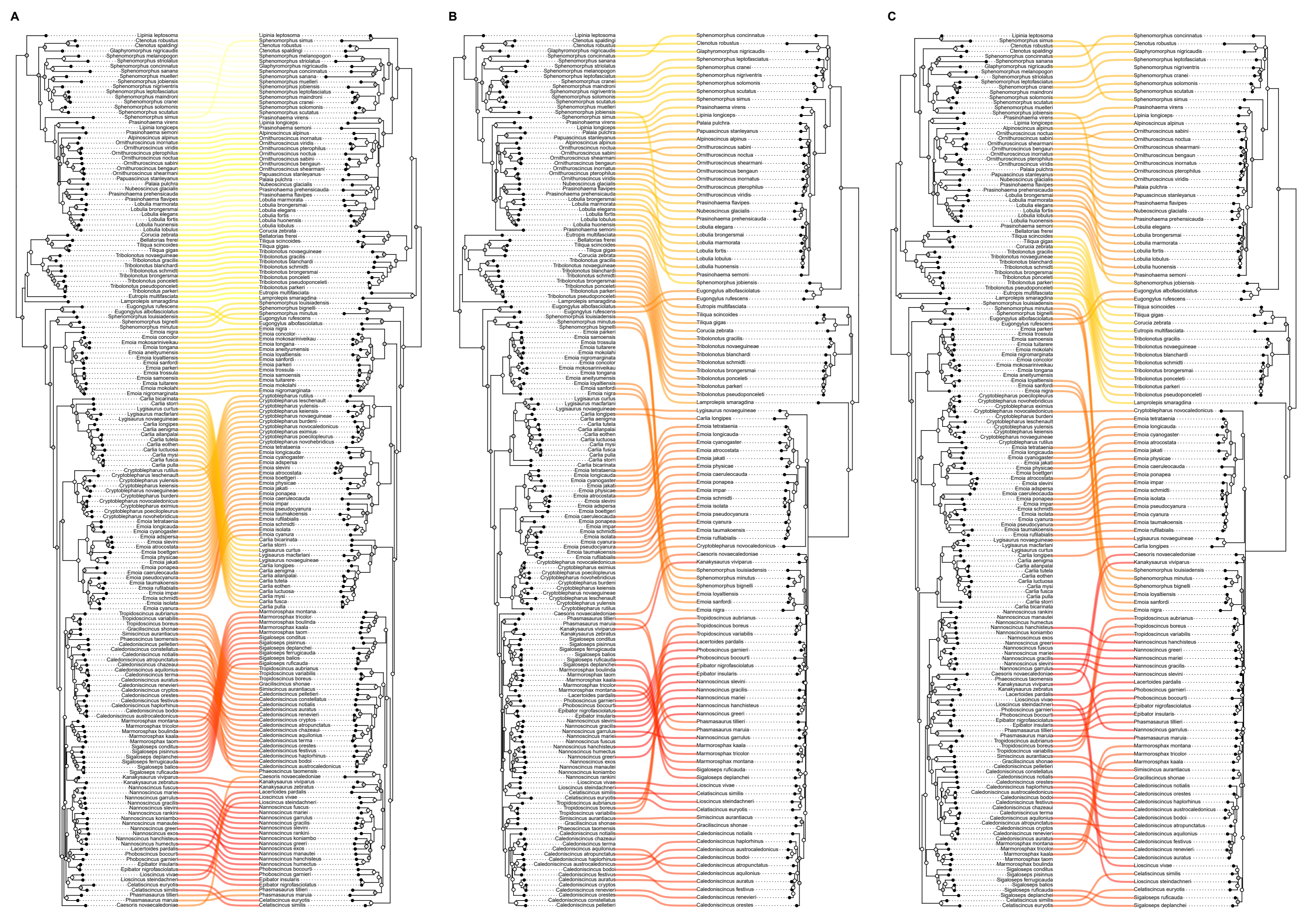
Figure S3. Comparison of consensus BI phylogenies generated in MrBayes using the full concatenated gene dataset (17 loci, 11761 bp, 174 spp), the mtDNA concatenated dataset (7 loci, 4771 bp, 173 spp), and the nDNA concatenated dataset (10 loci, 6990 bp, 112 spp). All comparisons are presented using cophylo plots, with edges connected by colored lines. Support values are shown at the nodes for posterior probability (PP): filled grey circles represent statistically supported nodes (PP \geq 0.95) and empty circles represent unsupported nodes (PP < 0.95). (A) Comparison between the full dataset (left) and mtDNA dataset (right). (B) Comparison between the full dataset (left) and nDNA dataset (right). (C) Comparison between the mtDNA dataset (left) and the nDNA dataset (right).

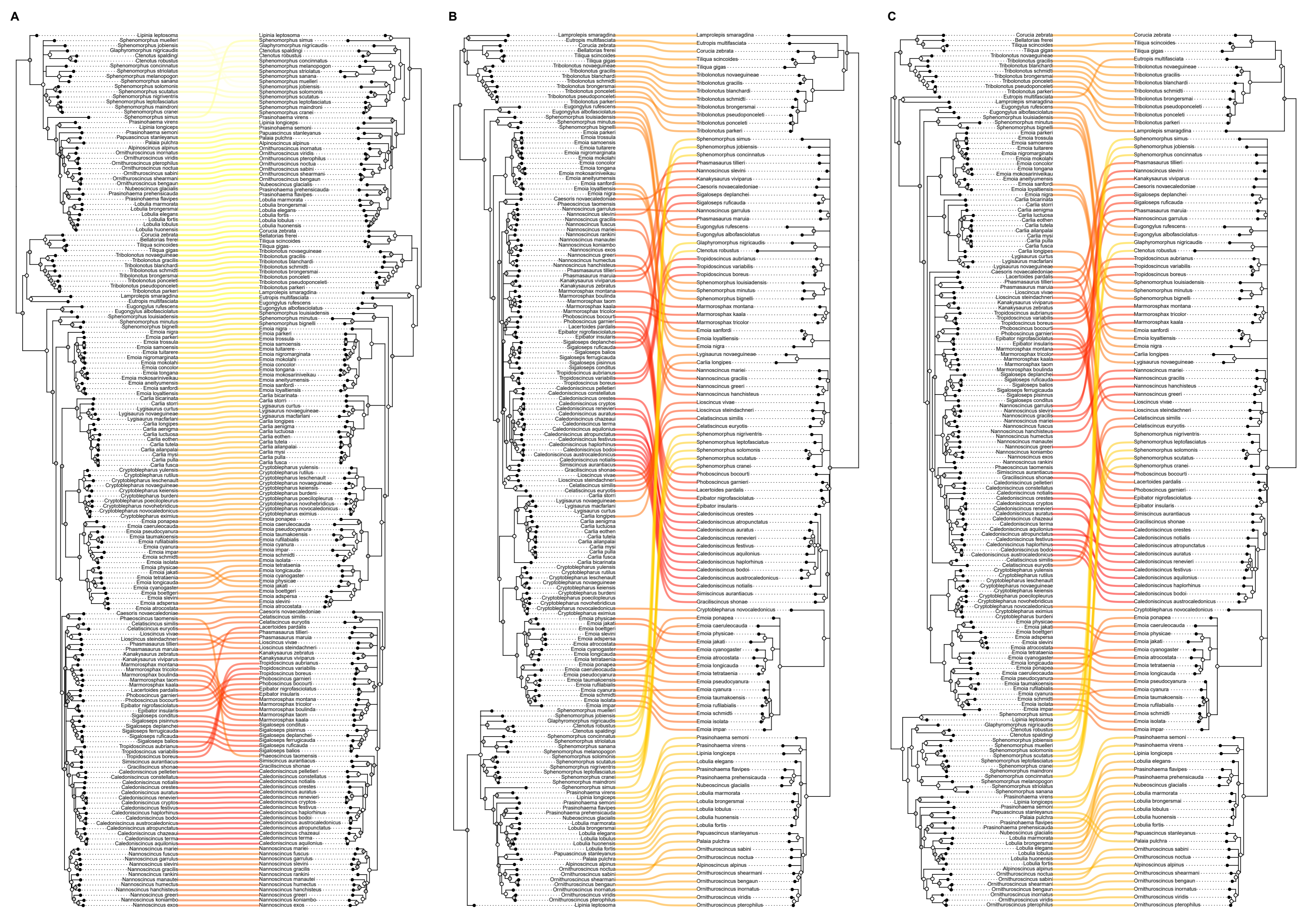
Figure S4. Comparison of phylogenies generated using the full concatenated gene dataset (17 loci, 11761 bp, 174 spp): ML phylogeny generated in IQ-TREE, ML phylogeny generated in RAxML, and consensus BI phylogeny generated in MrBayes. All comparisons are presented using cophylo plots, with edges connected by colored lines. Support values are shown at the nodes for bootstrap values (BS; RAxML), ultrafast bootstrap (UFBoot; IQ-TREE), and

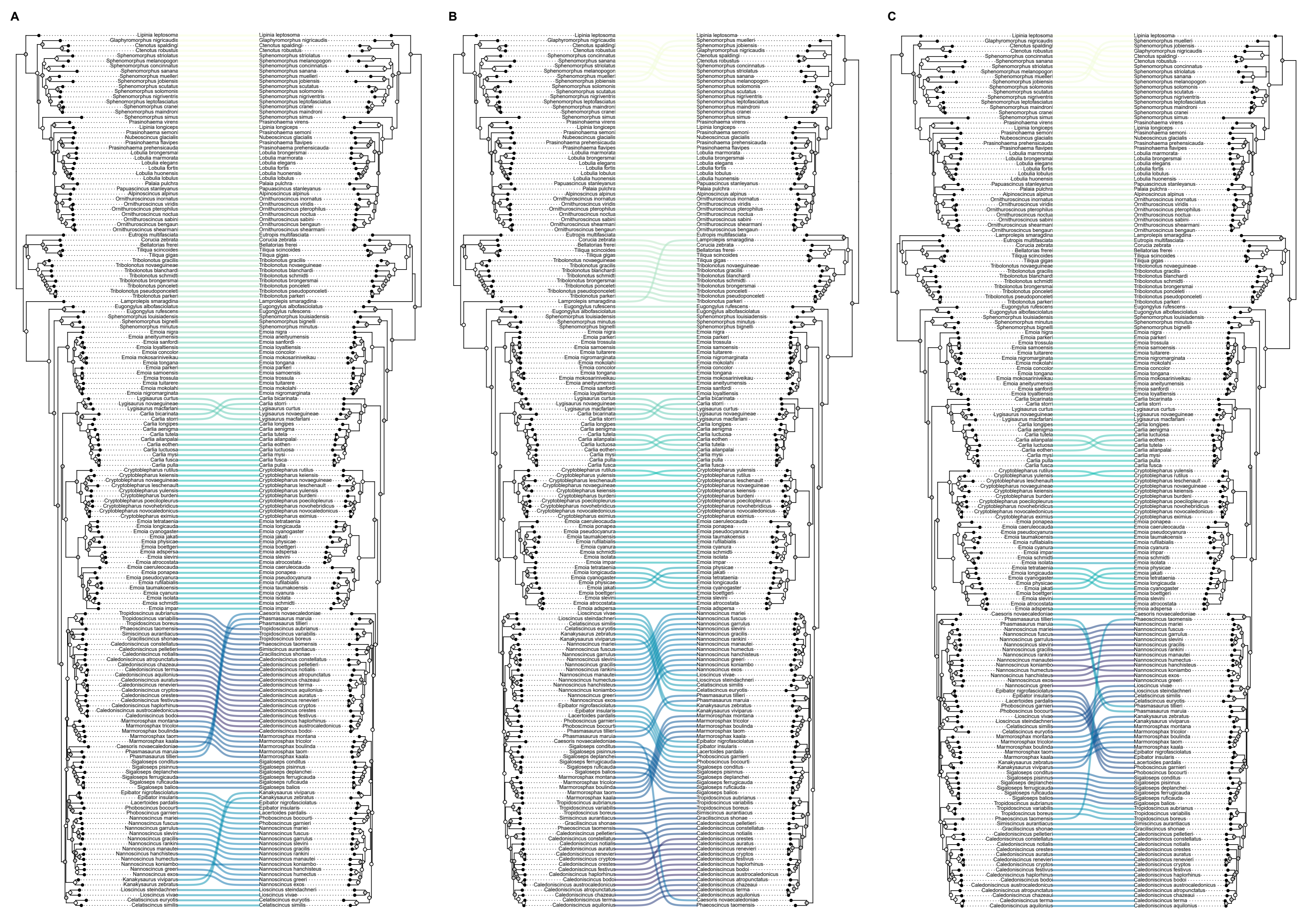
posterior probability (PP; MrBayes): filled grey circles represent statistically supported nodes (UFBoot \geq 95%; BS \geq 80%; PP \geq 0.95) and empty circles represent unsupported nodes (UFBoot $<$ 95%; BS $<$ 80%; PP $<$ 0.95). (A) Comparison between the IQ-TREE (left) and RAxML (right) phylogenies. (B) Comparison between the IQ-TREE (left) and MrBayes (right) phylogenies. (C) Comparison between the RAxML (left) and the MrBayes (right) phylogenies.

Figure S5. Ridgeline plot showing the distribution of coverage of mtDNA and nDNA markers for skinks in each of the five sub-regions. Mean values are represented by vertical lines.

A**B****C**







Sub-region Eastern Wallacea New Guinea Solomon Islands New Caledonia Pacific

