

Supplemental Tables

Sup. Table 1. Information on samples used in molecular phylogenetic analyses for this study.

Species	Voucher	Locality	Accession	Reference
<i>M. aishani</i>	SDBDU 3920	India: Assam, Cachar, Subhong	MK889218	Das <i>et al.</i> (2019)
<i>M. dissimulans</i>	AUP 01698	Thailand: Songkla, Saba Yoi	MT573413	Suwannapoon <i>et al.</i> (2020)
<i>M. dissimulans</i>	AUP 01691	Thailand: Songkla, Saba Yoi	MT573415	Suwannapoon <i>et al.</i> (2020)
<i>M. erythropoda</i>	ZMMU A4721-1533	Vietnam: Dong Nai, Ma Da Nature Reserve (N.R.)	MH756146	Poyarkov <i>et al.</i> (2018)
<i>M. erythropoda</i>	ZMMU A4721-1542	Vietnam: Dong Nai, Ma Da N.R.	MH756147	Poyarkov <i>et al.</i> (2018)
<i>M. erythropoda</i>	ITBCZ 11043	Vietnam: lava caves, Dak Nong UNESCO Global Geopark	PQ570530	This study
<i>M. erythropoda</i>	ITBCZ 11045	Vietnam: lava caves, Dak Nong UNESCO Global Geopark	PQ570560	This study
<i>M. erythropoda</i>	ITBCZ 11047	Vietnam: lava caves, Dak Nong UNESCO Global Geopark	PQ570571	This study
<i>M. hekouensis</i>	KIZ 20210510	China: Yunnan, Honghe, Hekou	MZ536627	Liu <i>et al.</i> (2021a)
<i>M. hekouensis</i>	KIZ 20210511	China: Yunnan, Honghe, Hekou	MZ536628	Liu <i>et al.</i> (2021a)
<i>M. hekouensis</i>	ZMMU NAP-3352-2	Vietnam: Hai Phong, Cat Ba National Park (N.P.)	MH879844	Poyarkov <i>et al.</i> (2018)
<i>M. hekouensis</i>	ZMMU NAP-3580	Vietnam: Hai Phong, Cat Ba N.P.	MH879845	Poyarkov <i>et al.</i> (2018)
<i>M. immaculata</i>	KFBG 14270	China: Hainan, Exian	MW376736	Yang & Poyarkov (2021)
<i>M. immaculata</i>	KFBG 14271	China: Hainan, Exian	MW376737	Yang & Poyarkov (2021)
<i>M. inornata</i>	MZB 23949	Indonesia: Sumatra, Deli Serdang	LC208135	Alhadi <i>et al.</i> (2019)
<i>M. inornata</i>	MZB 23948	Indonesia: Sumatra, Deli Serdang	LC208137	Alhadi <i>et al.</i> (2019)
<i>M. inornata</i>	MZB 27242	Indonesia: Sumatra, Aceh	LC208138	Alhadi <i>et al.</i> (2019)
<i>M. inornata</i>	USNM 587901	Myanmar: Tanintharyi	MT609034	Miller <i>et al.</i> (2021)
<i>M. lineata</i>	KUHE 23858	Thailand: Ranong	AB634695	Matsui <i>et al.</i> (2011)
<i>M. lineata</i>	CAS 247206	Myanmar: Tanintharyi, Kawthaung	KM509167	Peloso <i>et al.</i> (2016)
<i>M. melanops</i>	ZMMU NAP-00449	Vietnam: Lam Dong, Bidoup Nui Ba N.P.	MZ474684	Poyarkov <i>et al.</i> (2021)
<i>M. melanops</i>	ZMMU NAP-01381	Vietnam: Lam Dong, Bidoup Nui Ba N.P.	MZ474685	Poyarkov <i>et al.</i> (2021)
<i>M. menglienica</i>	KIZ 20210708	China: Yunnan, Pu'er, Menglian	OK335183	Liu <i>et al.</i> (2021b)
<i>M. menglienica</i>	KIZ 20210709	China: Yunnan, Pu'er, Menglian	OK335184	Liu <i>et al.</i> (2021b)
<i>M. menglienica</i>	K 3246	Laos: Luangprabang, Ban Sop Chuna	KC180027	Grosjean <i>et al.</i> (2015)
<i>M. menglienica</i>	K 3068	Thailand: Chiang Mai, Doi Chiang Dao	KR827953	Grosjean <i>et al.</i> (2015)
<i>M. nigromaculata</i>	ZMMU A5947	Vietnam: Hai Phong, Cat Ba N.P.	MH756148	Poyarkov <i>et al.</i> (2018)
<i>M. nigromaculata</i>	ZMMU A5937	Vietnam: Hai Phong, Cat Ba N.P.	MH756149	Poyarkov <i>et al.</i> (2018)
<i>M. nigromaculata</i>	ZMMU A5946	Vietnam: Hai Phong, Cat Ba N.P.	MH756151	Poyarkov <i>et al.</i> (2018)

<i>M. nigromaculata</i>	DTU 301	Vietnam: Ninh Binh, Cuc Phuong N.P.	MH756154	Poyarkov <i>et al.</i> (2018)
<i>M. steinegeri</i>	KUHE 35937	China: Taiwan, Yunlin	AB634696	Matsui <i>et al.</i> (2011)
<i>M. steinegeri</i>	ZMMU A5336-1	China: Taiwan, Kaohsiung	MW376732	Poyarkov <i>et al.</i> (2018)
<i>M. steinegeri</i>	ZMMU A5336-2	China: Taiwan, Kaohsiung	MW376733	Poyarkov <i>et al.</i> (2018)
<i>M. steinegeri</i>	ZMMU A5336-3	China: Taiwan, Kaohsiung	MW376734	Poyarkov <i>et al.</i> (2018)
<i>M. subaraji</i>	ZRC 1.13323	Singapore: Kranji Marshes	ON026063	Sankar <i>et al.</i> (2022)
<i>M. subaraji</i>	ZRC 1.13369	Singapore: Kranji Marshes	ON026064	Sankar <i>et al.</i> (2022)
<i>M. sumatrana</i>	MZB 30594	Indonesia: Sumatra Selatan	MN727065	Munir <i>et al.</i> (2020)
Outgroup				
<i>Kaloula pulchra</i>	NMNS 3208	China	KC822614	Blackburn <i>et al.</i> (2013)
<i>Mysticellus franki</i>	ZSI/WGRC/V/A/967	India: Kerala, Wayand	MK285340	Garg & Biju (2019)
<i>Uperodon systoma</i>	SDBDU 2005.4723	India: Tamil Nadu: Kunnappattu	MG557949	Garg & Biju (2019)

Sup. Table 2. Uncorrected p-distances (%) between population of *M. erythropoda* and the closest related species, *M. lineata*, based on the *16S* rRNA gene.

	1	2	3	4	5	6	7
1. <i>M. erythropoda</i> ZMMU A4721-1533 (Dong Nai Province)							
2. <i>M. erythropoda</i> ZMMU A4721-1542 (Dong Nai Province)	0.0						
3. <i>M. erythropoda</i> ITBCZ 11047 (lava caves, Dak Nong Province)	0.3	0.3					
4. <i>M. erythropoda</i> ITBCZ 11045 (lava caves, Dak Nong Province)	0.3	0.3	0.0				
5. <i>M. erythropoda</i> ITBCZ 11043 (lava caves, Dak Nong Province)	0.3	0.3	0.0	0.0			
6. <i>M. lineata</i> KUHE 23858	2.5	2.5	2.2	2.2	2.2		
7. <i>M. lineata</i> CAS 247206	2.5	2.5	2.2	2.2	2.2	0.0	

Sup. Table 3. Measurements (in mm) and some characteristics of *M. erythropoda* from lava cave C8 Dak Nong Province

ITBCZ	11043	11044	11045	10226	Range	Mean±SD	11047	11046	11048	10224	10225	Range	Mean±SD
Sex	Adult female	Adult female	Adult female	Adult female			Subfemale	Adult male	Adult male	Adult male	Adult male		
SVL	28.4	26.9	24.5	25.4	24.5–28.4	26.3±1.7	22.5	22.5	22.3	20.8	20.8	20.8–22.5	21.6±0.9
NSL	1.2	1.1	1.1	1.2	1.1–1.2	1.2±0.1	0.9	1.0	0.8	1.0	0.9	0.8–1.0	0.9±0.1
HL	7.3	7.3	6.8	7.3	6.8–7.3	7.2±0.3	6.2	6.4	6.3	6.2	6.2	6.2–6.4	6.3±0.1
SL	3.5	3.3	3.2	3.2	3.2–3.5	3.3±0.1	3.0	3.1	2.9	2.7	2.8	2.7–3.1	2.9±0.2
EL	2.5	2.5	2.3	2.6	2.3–2.6	2.5±0.1	2.1	2.1	2.2	2.2	2.1	2.1–2.2	2.2±0.1
NEL	2.0	2.0	2.0	2.0	2.0	2.0±0.0	1.7	1.9	1.7	1.7	1.7	1.7–1.9	1.8±0.1
HW	8.8	8.3	7.4	8.1	7.4–8.8	8.2±0.6	6.9	7.3	6.9	6.5	6.8	6.5–7.3	6.9±0.3
IND	2.2	2.3	2.0	2.0	2.0–2.3	2.1±0.2	1.6	1.7	1.7	1.6	1.6	1.6–1.7	1.7±0.1
IOD	3.5	3.2	3.2	3.0	3.0–3.5	3.2±0.2	2.8	2.7	2.7	2.8	2.8	2.7–2.8	2.8±0.1
UEW	1.4	1.3	1.2	1.4	1.2–1.4	1.3±0.1	1.0	1.2	1.2	1.2	1.2	1.2	1.2±0.0
TYL	1.3	1.2	1.1	1.2	1.1–1.3	1.2±0.1	1.0	1.1	1.0	0.8	0.9	0.8–1.1	1.0±0.1
FLL	18.4	19.5	16.4	17.9	16.4–19.5	18.1±1.3	15.7	16.6	15.6	13.8	14.5	13.8–16.6	15.1±1.2
LHL	13.9	14.3	12.0	13.1	12.0–14.3	13.3±1.0	10.9	11.7	11.0	9.9	11.0	9.9–11.7	10.9±0.7
HAL	7.4	7.9	6.9	7.2	6.9–7.9	7.4±0.4	6.1	6.3	5.9	5.3	5.7	5.3–6.3	5.8±0.4
FFL	2.4	2.7	2.2	2.3	2.2–2.7	2.4±0.2	2.0	2.2	1.8	1.9	1.9	1.8–2.2	2.0±0.2
IPL	0.7	0.6	0.5	0.4	0.4–0.7	0.6±0.1	0.4	0.4	0.4	0.4	0.5	0.4–0.5	0.4±0.0
MPL	0.8	0.8	0.6	0.6	0.6–0.8	0.7±0.1	0.6	0.6	0.5	0.5	0.9	0.5–0.9	0.6±0.2
OPL	0.9	0.9	0.7	0.7	0.7–0.9	0.8±0.1	0.7	0.7	0.7	0.6	0.7	0.6–0.7	0.7±0.1
3FDD	0.5	0.4	0.4	0.5	0.4–0.5	0.5±0.1	0.3	0.4	0.3	0.4	0.4	0.3–0.4	0.4±0.1
HLL	37.9	38.5	36.2	35.2	35.2–38.5	37.0±1.5	29.9	34.5	31.2	26.2	28.4	26.2–34.5	30.1±3.6
TBL	12.5	12.2	11.9	11.5	11.5–12.5	12.0±0.4	10.0	11.2	10.0	9.5	9.4	9.4–11.2	10.0±0.8
FL	18.7	19.5	17.0	17.6	17.0–19.5	18.2±1.1	16.1	17.1	14.7	14.2	14.9	14.2–17.1	15.2±1.3
OMTL	0.4	0.2	0.2	0.2	0.2–0.4	0.3±0.1	0.2	0.2	0.2	0.1	0.2	0.1–0.2	0.2±0.1
IMTL	0.9	0.7	0.6	0.7	0.6–0.9	0.7±0.1	0.6	0.6	0.5	0.4	0.5	0.4–0.6	0.5±0.1
1TOEL	2.6	2.6	2.2	2.4	2.2–2.6	2.5±0.2	2.0	2.1	1.9	1.7	1.8	1.7–2.1	1.9±0.2
4TDD	0.6	0.5	0.5	0.6	0.5–0.6	0.6±0.1	0.4	0.5	0.5	0.5	0.5	0.4–0.5	0.5±0.0
Throat with dark pigmentation	no	no	no	no			no	yes	yes	yes	yes		
Tibiotarsal articulation of adpressed limb	Posterior edge of tympanum	Middle of tympanum	Middle of eye	Middle of tympanum			Middle of eye	Middle of eye	Middle of tympanum	Posterior edge of tympanum	Middle of tympanum		
Median and outer metacarpal tubercles	Partly fused	Partly fused	Separated	Partly fused			Separated	Separated	Separated	Separated	Separated		