

Table S1. Sequences and voucher specimens of the *Microhyla berdmorei* complex and outgroup taxa used in this study. Locality number corresponds to those shown on the map in Figure 1. An asterisk (*) indicates the specimens included in the ddRAD-seq analysis.

#	Taxon/ Clade	Locality	Museum/ Sample ID	12S rRNA	16S rRNA	COI	BDNF	Reference
	<i>Microhyla malcolmi</i>							
1	A1	1 - Vietnam, Dong Nai, Cat Tien NP, Nam Cat Tien	-/ NAP-00686	—	PP778141	—	—	This work
2	A1	1 - Vietnam, Dong Nai, Cat Tien NP, Nam Cat Tien	-/ NAP-00692	—	PP778140	—	—	This work
3	A1	1 - Vietnam, Dong Nai, Cat Tien NP, Nam Cat Tien	-/ NAP-00693	—	PP778139	—	—	This work
4	A1	1 - Vietnam, Dong Nai, Cat Tien NP, Nam Cat Tien	-/ NAP-00694	—	PP778150	PP795498	—	This work
5	A1	1 - Vietnam, Dong Nai, Cat Tien NP, Nam Cat Tien	-/ NAP-00695	—	PP778151	PP795499	—	This work
6	A1	1 - Vietnam, Dong Nai, Cat Tien NP, Nam Cat Tien	-/ NAP-00696	—	PP778138	—	—	This work
7	A1	1 - Vietnam, Dong Nai, Cat Tien NP, Nam Cat Tien	-/ NAP-00708	—	PP778137	—	—	This work
8	A1	1 - Vietnam, Dong Nai, Cat Tien NP, Nam Cat Tien	ZMMU A-4603/ NAP-02009	—	PP778133	—	—	This work
9	A1	1 - Vietnam, Dong Nai, Cat Tien NP, trail to Bau Sau	ZMMU A-7995/ PVY-00072*	—	PP778192	PP795544	—	This work
10	A1	2 - Vietnam, Tay Ninh, Lo Go - Xa Mat NP	ZMMU A-5094/ NAP-03594	—	PP778159	PP795507	PP790534	This work
11	A1	2 - Vietnam, Tay Ninh, Lo Go - Xa Mat NP	ZMMU A-5094/ NAP-03595	MN534710; MN534502	MN534603	—	—	Gorin et al. (2020)
12	A1	2 - Vietnam, Tay Ninh, Lo Go - Xa Mat NP	ZMMU A-5094/ NAP-03596	—	PP778160	PP795508	—	This work
13	A1	3 - Vietnam, Dong Nai, Ma Da NR	ZMMU A-4731/ NAP-01546	—	PP778155	PP795503	—	This work
14	A1	3 - Vietnam, Dong Nai, Ma Da NR	ZMMU A-4731/ NAP-01547	—	PP778156	PP795504	—	This work
15	A1	3 - Vietnam, Dong Nai, Ma Da NR	ZMMU A-7988/ NAP-12880	—	PP778183	PP795530	—	This work
16	A1	4 - Vietnam, Lam Dong, Bi Doup - Nui Ba NP, Giang Ly	-/ NAP-01311	—	PP778153	PP795501	—	This work
17	A1	4 - Vietnam, Lam Dong, Bi Doup - Nui Ba NP, Giang Ly	-/ NAP-01405	—	PP778136	—	—	This work
18	A1	4 - Vietnam, Lam Dong, Bi Doup - Nui Ba NP, Giang Ly	ZMMU A-5073/ NAP-01721	—	PP778135	—	—	This work
19	A1	4 - Vietnam, Lam Dong, Bi Doup - Nui Ba NP, Giang Ly	ZMMU A-4710/ NAP-01728	—	PP778134	—	—	This work
20	A1	4 - Vietnam, Lam Dong, Bi Doup - Nui Ba NP, Giang Ly	ZMMU A-5073/ NAP-01314	—	PP778154	PP795502	—	This work
21	A1	4 - Vietnam, Lam Dong, Bi Doup - Nui Ba NP, Giang Ly	ZMMU A-5073 21	MN534714; MN534505	MN534607	—	—	Gorin et al. (2020)
22	A1	4 - Vietnam, Lam Dong, Bi Doup - Nui Ba NP, Giang Ly	ZMMU A-7987/ NAP-12420	—	PP778181	PP795528	PP790535	This work
23	A1	5 - Vietnam, Lam Dong, Bi Doup - Nui Ba NP, Hon Giao	ZMMU A-5073/ NAP-02973	—	PP778132	—	—	This work
24	A1	6 - Vietnam, Lam Dong, Bi Doup - Nui Ba NP, Bi Doup Mt	ZMMU A-7994/ PVY-00057	—	PP778191	PP795543	—	This work
25	A1	6 - Vietnam, Lam Dong, Bi Doup - Nui Ba NP	ZMMU A-7996/ PVY-00106*	—	—	—	—	This work
26	A1	7 - Vietnam, Lam Dong, Da Lat	ZMMU A-7999/ PVY-00264	—	PP778149	—	—	This work
27	A1	8 - Vietnam, Binh Phuoc, Bu Gia Map NP	ZMMU A-4517/ NAP-00745	—	PP778152	PP795500	—	This work
28	A1	9 - Vietnam, Dak Lak, Yok Don NP	ZMMU A-4643/ NAP-02595	—	PP778157	PP795505	—	This work
29	A1	9 - Vietnam, Dak Lak, Yok Don NP	ZMMU A-4643/ NAP-02596	—	PP778158	PP795506	—	This work
30	A1	10 - Vietnam, Phu Yen, Song Chinh FR	ZMMU A-7967/ NAP-10256	—	PP778119	—	—	This work
31	A1	10 - Vietnam, Phu Yen, Song Chinh FR	ZMMU A-7968/ NAP-10257	—	PP778118	—	—	This work
32	A1	10 - Vietnam, Phu Yen, Song Chinh FR	ZMMU A-7969/ NAP-10258	—	PP778117	—	—	This work
33	A1	10 - Vietnam, Phu Yen, Song Chinh FR	ZMMU A-7970/ NAP-10259	—	PP778174	PP795521	—	This work
34	A1	10 - Vietnam, Phu Yen, Song Chinh FR	ZMMU A-7971/ NAP-10285	—	PP778175	PP795522	—	This work
35	A1	10 - Vietnam, Phu Yen, Song Chinh FR	ZMMU A-7972/ NAP-10286	—	PP778116	—	—	This work
36	A1	11 - Vietnam, Gia Lai, Kon Ka Kinh NP	ZMMU A-7151/ NAP-06897	—	PP778131	—	—	This work
37	A1	11 - Vietnam, Gia Lai, Kon Ka Kinh NP	ZMMU A-7152/ NAP-06898	—	PP778164	PP795542	—	This work
38	A1	11 - Vietnam, Gia Lai, Kon Ka Kinh NP	ZMMU A-7153/ NAP-06899	—	PP778165	PP795512	—	This work
39	A1	11 - Vietnam, Gia Lai, Kon Ka Kinh NP	ZMMU A-7154/ NAP-06970	—	PP778129	—	—	This work
40	A1	11 - Vietnam, Gia Lai, Kon Ka Kinh NP	-/ NAP-07302	—	PP778128	—	—	This work
41	A1	11 - Vietnam, Gia Lai, Kon Ka Kinh NP	ZMMU A-7163/ NAP-06900	—	PP778130	—	—	This work
42	A1	11 - Vietnam, Gia Lai, Kon Ka Kinh NP	ZMMU A-7164/ NAP-06955	—	PP778166	PP795513	—	This work
43	A1	11 - Vietnam, Gia Lai, Kon Ka Kinh NP	ZMMU A-7165/ NAP-06956	—	PP778167	PP795514	—	This work
44	A1	12 - Vietnam, Gia Lai, Kon Chu Rang NR	ZMMU A-6905/ NAP-07576	—	PP778127	—	—	This work
45	A1	12 - Vietnam, Gia Lai, Kon Chu Rang NR	ZMMU A-6906/ NAP-07647	—	PP778126	—	—	This work
46	A1	12 - Vietnam, Gia Lai, Kon Chu Rang NR	ZMMU A-6907/ NAP-07648	—	PP778125	—	—	This work
47	A1	12 - Vietnam, Gia Lai, Kon Chu Rang NR	ZMMU A-6908/ NAP-07649	—	PP778168	PP795515	PP790536	This work
48	A1	12 - Vietnam, Gia Lai, Kon Chu Rang NR	ZMMU A-6909/ NAP-07650	—	PP778169	PP795516	—	This work

49	A1	12 - Vietnam, Gia Lai, Kon Chu Rang NR	ZMMU A-6910/ NAP-07651*	—	PP778124	—	—	This work
50	A1	12 - Vietnam, Gia Lai, Kon Chu Rang NR	ZMMU A-6911/ NAP-07652	—	PP778123	—	—	This work
51	A1	12 - Vietnam, Gia Lai, Kon Chu Rang NR	ZMMU A-6912/ NAP-07684	—	PP778122	—	—	This work
52	A1	12 - Vietnam, Gia Lai, Kon Chu Rang NR	ZMMU A-7986/ NAP-12305	—	PP778180	PP795527	—	This work
53	A1	12 - Vietnam, Gia Lai, Kon Chu Rang NR	ZMMU A-7998/ PVY-00237	—	PP778194	PP795539	—	This work
54	A2	13 - Vietnam, Gia Lai, Kon Chu Rang NR, K50 Wf	ZMMU A-7997/ PVY-00179	—	PP778193	PP795538	—	This work
55	A2	14 - Vietnam, Kon Tum, Kon Plong, Thac Nham FR	ZMMU A-6544/ NAP-06475	—	PP778162	PP795510	—	This work
56	A2	15 - Vietnam, Kon Tum, Kon Plong, Mang Canh	ZPMSU 06364	MN534712; MN534504	MN534605	—	—	Gorin et al. (2020)
57	A2	16 - Vietnam, Quang Binh, Phong Nha - Ke Bang NP	ZMMU A-7985/ NAP-12186*	—	PP778179	PP795526	—	This work
58	A2	17 - Laos, Khammouan, Nahin, Nam Sa Nam Wf	ZMMU A-7666/ NAP-09133*	—	PP778120	—	—	This work
59	A2	17 - Laos, Khammouan, Nahin, Nam Sa Nam Wf	ZMMU A-7667/ NAP-09134	—	PP778172	PP795519	PP790537	This work
60	A2	17 - Laos, Khammouan, Nahin, Nam Sa Nam Wf	ZMMU A-7668/ NAP-09137	—	PP778173	PP795520	—	This work
61	A2	18 - Laos, Khammouan, Nakai Nam Theun NP	ZISP FN 00237	MN534713	MN534606	—	—	Gorin et al. (2020)
62	A2	19 - Laos, Luang Prabang, Kouangxi Wf	K1463	—	KR827907	KR087785	—	Grosjean et al. (2015)
63	A2	20 - Laos, Phongsaly	K1840/2005.0169	—	KR827909	KR087787	—	Grosjean et al. (2015)
64	A2	21 - Laos, Luang Prabang, Ban Dong Khan	2006.233	—	KR827910	KR087788	—	Grosjean et al. (2015)
65	A2	22 - Cambodia, Siem Reap	SGK4982	KU840496	KU840572	—	—	Goutte et al. (2016)
66	A1	23 - Thailand, Nakhon Ratchasima, Khao Yai NP, Pha Kluai Mai Wf	ZMMU A-6978/ NAP-08144*	—	PP778121	—	—	This work
67	A2	23 - Thailand, Nakhon Ratchasima, Khao Yai NP, Pha Kluai Mai Wf	ZMMU A-6979/ NAP-08145	—	PP778170	PP795517	—	This work
68	A2	23 - Thailand, Nakhon Ratchasima, Khao Yai NP, Pha Kluai Mai Wf	ZMMU A-6980/ NAP-08146	—	PP778171	PP795518	—	This work
69	A2	24 - Thailand, Phrae	KUHE 20654	LC465690	—	—	—	Tominaga et al. (2019)
70	A2	24 - Thailand, Phrae	KUHE 21992	LC465689	—	—	—	Tominaga et al. (2019)
71	A2	25 - Thailand, Chiang Mai, Doi Chiang Dao Mt.	K3008	—	KR827908	KR087786	—	Grosjean et al. (2015)
72	A3	26 - Thailand, Satun, Tha Le Ban NP	-/ NAP-04093*	—	PP778161	—	—	This work
73	A3	26 - Thailand, Satun, Tha Le Ban NP	ZMMU A-7991/ ISS-098	—	PP778190	PP795537	—	This work
74	A3	27 - Thailand, Satun, Tham Le Stegodon cave	ZMMU A-7992/ ISS-099	—	PP778189	PP795536	—	This work
75	A3	28 - Thailand, Surat Thani, Khao Sok NP	ZMMU NAP-04133/ NAP-04133	MN534711; MN534503	MN534604	—	—	Gorin et al. (2020)
76	A3	28 - Thailand, Surat Thani, Khao Sok NP	ZMMU A-7989/ NAP-12933	—	PP778184	PP795531	—	This work
77	A3	29 - Thailand, Phang Nga	TAD P917	—	KR827906	KR087784	—	Grosjean et al. (2015)
78	A3	30 - Thailand, Yala, Betong, Wat Tham, Khao Thai cave	ZMMU A-7973/ NAP-11215*	—	PP778176	PP795523	—	This work
79	A3	30 - Thailand, Yala, Betong, Wat Tham, Khao Thai cave	ZMMU A-7979/ NAP-11221	—	PP778177	PP795524	—	This work
80	A3	31 - Thailand, Yala, Betong, Winter Flower Garden	ZMMU A-7982/ NAP-11422	—	PP778178	PP795525	PP790538	This work
81	A3	31 - Thailand, Yala, Betong, Winter Flower Garden	ZMMU A-7983/ NAP-11423	—	PP778176	—	—	This work
82	A3	32 - Malaysia, Perlis	JAM 1995	KC822491	—	—	—	Blackburn et al. (2013)
		<i>Microhyla berdmorei</i> sensu stricto						
83	B1	33 - India, Mizoram, Aizawl	MZMU A-8003	—	PP778187	PP795534	PP790531	This work
84	B1	33 - India, Mizoram, Aizawl	MZMU A-8004	—	PP778188	PP795535	PP790532	This work
85	B1	34 - India, Mizoram	MZMU 1613	MW578946	MW578946	MT755953	—	Kundu et al. (2021)
86	B1	34 - India, Mizoram	MZMU 1364	—	MT790751	—	—	Lalremsanga unpublished
87	B1	34 - India, Mizoram	MZMU 1643	—	MT790754	—	—	Lalremsanga unpublished
88	B1	34 - India, Mizoram	MZMU 1641	—	MT790755	—	—	Lalremsanga unpublished
89	B1	35 - India, Tripura, Vanghmun, Jampui Hills	SDBDU 2009.609	—	MH807385	—	—	Garg et al. (2019)
90	B1	36 - India, Tripura, Gumti WLS	SDBDU 2009.567	—	MH807384	—	—	Garg et al. (2019)
91	B1	37 - India, Tripura, Sepahijala WLS	SDBDU 2009.440	—	MH807386	—	—	Garg et al. (2019)
92	B1	38 - India, Tripura, Trishna WLS	SDBDU 2009.509	—	MH807387	—	—	Garg et al. (2019)
93	B1	39 - India, Assam, Tellachera, Near Marua	WII 5676	—	MH807388	—	—	Garg et al. (2019)
94	B1	40 - India, Damparengpui	MZMU 1824	—	MW165457	—	—	Decemson et al. (2021)
95	B1	41 - Bangladesh, Sylhet	DFBGBAU Msp G 7	MN534708; MN534500	MN534601	—	—	Gorin et al. (2020)
96	B1	42 - Bangladesh, Bandarban	IABHU 3862*	MN534709; MN534501	MN534602	—	PP790533	Gorin et al. (2020)
97	B2	43 - Myanmar, Yangon, Mingalardon, Hlawga lake	MBM JBS19929	—	MG935889	MG935595	—	Mulcahy et al. (2018)
98	B2	43 - Myanmar, Yangon, Mingalardon, Hlawga lake	MBM JBS19917	—	MG935890	MG935596	—	Mulcahy et al. (2018)
99	B2	44 - Myanmar, Bago, Dawei	MBM USNMFS35556	—	MG935888	MG935594	—	Mulcahy et al. (2018)
100	B2	44 - Myanmar, Bago, Dawei	USNM 587407	—	MG935891	MG935597	—	Mulcahy et al. (2018)
101	B2	45 - Myanmar, Alaungdaw Kathapa NP, Sagaing	CAS 204876	—	KC179981	—	KC180094	de Sá et al. (2012)
		<i>Microhyla sundaica</i> sp. nov.						
102	C1	46 - Malaysia, Selangor, Sungai Tua	ZMMU A-8006/ TAK-032	—	PP778142	—	—	This work

103	C1	46 - Malaysia, Selangor, Sungai Tua	ZMMU A-8008/ TAK-046	—	PP778144	—	—	This work
104	C1	46 - Malaysia, Selangor, Sungai Tua	ZMMU A-8009/ TAK-047	—	PP778195	PP795540	PP790542	This work
105	C1	46 - Malaysia, Selangor, Sungai Tua	ZMMU A-8010/ TAK-048	—	PP778196	PP795541	PP790543	This work
106	C1	46 - Malaysia, Selangor, Sungai Tua	ZMMU A-8011/ TAK-049 (H)	—	PP778145	—	PP790544	This work
107	C1	46 - Malaysia, Selangor, Sungai Tua	ZMMU A-8012/ TAK-050	—	PP778146	—	PP790545	This work
108	C1	46 - Malaysia, Selangor, Sungai Tua	ZMMU A-8013/ TAK-051	—	PP778147	—	—	This work
109	C1	46 - Malaysia, Selangor, Sungai Tua	ZMMU A-8014/ TAK-052	—	PP778148	—	—	This work
110	C1	46 - Malaysia, Selangor, Sungai Tua	ZMMU A-8007/ TAK-033	—	PP778143	—	—	This work
111	C1	47 - Malaysia, Selangor, Gombak	KUHE 52034	AB598314	AB598338	—	—	Matsui et al. (2011)
112	C1	47 - Malaysia, Selangor, Gombak	Mber My	—	AB530638	—	—	Hasan et al. (2014)
113	C1	48 - Malaysia, Selangor	FRIM HZF00328	—	—	MG386473	—	Munian unpublished
114	C1	48 - Malaysia, Selangor	FRIM HZF00325	—	—	MG386472	—	Munian unpublished
115	C1	48 - Malaysia, Selangor	FRIM HZF260713h	—	—	MG386471	—	Munian unpublished
116	C1	49 - Malaysia, Pahang, Kuala Tahan	ZMMU A-6157/ NAP-06743*	—	PP778163	PP795511	PP790546	This work
117	C1	49 - Malaysia, Pahang, Kuala Tahan	ZMMU A-6158/ NAP-06744*	MN534707; MN534499	MN534600	—	PP790547	Gorin et al. (2020)
118	C3	50 - Malaysia, Borneo, Sabah	RMBR 2153	MN534706; MN534498	MN534599	—	PP790548	Gorin et al. (2020)
119	C3	51 - Indonesia, Kalimantan, Paramasan	MZB 15270	AB634603	AB634661	—	—	Matsui et al. (2011)
120	C2	52 - Indonesia, Sumatra, Bengkulu	MZB 16413	AB634602	AB634660	—	—	Matsui et al. (2011)
121	C2	53 - Indonesia, Sumatra, Pagar Alam	MZB 26082	—	LC213132	—	—	Pradana et al. (2017)
<i>Microhyla peninsularis</i> sp. nov.								
122	D1	54 - Thailand, Trang, Lam Plok Wf.	ZMMU A-8015/ NAP-12746*	—	—	—	—	This work
123	D1	54 - Thailand, Trang, Lam Plok Wf.	ZMMU A-8016/ NAP-12747	—	PP778182	PP795529	PP790539	This work
124	D1	55 - Thailand, Trang, Namtok Khao Chong	ZMMU A-8017/ NAP-13182	—	PP778185	PP795532	PP790540	This work
125	D1	55 - Thailand, Trang, Namtok Khao Chong	ZMMU A-8018/ NAP-13183	—	PP778186	PP795533	PP790541	This work
126	D2	56 - Malaysia, Terengganu, Besut	KUHE 52373	AB634604	AB634662	—	—	Matsui et al. (2011)
Outgroups								
127	<i>Microhyla aurantiventris</i>	Vietnam, Gia Lai, Kon Ka Kinh NP	ITB CZ4361	MN534728	MH286426	—	—	Nguyen et al. (2019)
128	<i>Microhyla butleri</i>	Myanmar, Kachin	ZMMU NAP-09402	—	PP778197	—	—	This work
129	<i>Kaloula pulchra</i>	China	—	AY458595	—	—	—	Zhang et al. (2005)
130	<i>Microhyla fissipes</i>	China, Sichuan, Yaan	JC2018001	MH822625	—	—	—	Han et al. (2019)
131	<i>Microhyla taraiensis</i>	Nepal, Kankai, Jamun Khadi	—	NC039176	—	—	—	Khatiwada et al. (2018)
132	<i>Microhyla mixtura</i>	China, Beijing, Tiangen Biotech	—	NC038130	—	—	—	Zhao et al. (2018)
133	<i>Microhyla pulchra</i>	China, Guangdong, Dongguan, Yingping Mt	—	NC024547	—	—	—	Wu et al. (2014)
134	<i>Microhyla picta</i>	Vietnam, Ba Ria-Vung Tau, Binh Chau - Phuoc Buu NR	ZMMU A4918-43	—	MN534718	—	—	Gorin et al. (2020)
135	<i>Microhyla fissipes</i>	China	—	DQ512876	—	—	—	Nie and Cao unpublished
136	<i>Microhyla heymonsi</i>	China	—	AY458596	—	—	—	Zhang et al. (2005)
137	<i>Microhyla okinavensis</i>	Japan, Okinawa, Ishigaki	—	NC010233	—	—	—	Igawa et al. (2008)

Table S2. Morphometric characters recorded from each specimen of *M. berdmorei* sensu stricto and *M. malcolmi* examined. (Continues on the next page).

No.	Species	Museum ID	Sex	Location	SVL	HL	HW	SL	EL	N-EL	IND	IOD	UEW
1	<i>M. berdmorei</i> sensu stricto	MZMU A-8000	F	India, Mizoram, Aizawl	38.1	11.9	15.7	5.3	3.8	2.6	3.2	3.6	2.5
2	<i>M. berdmorei</i> sensu stricto	MZMU A-8003	F	India, Mizoram, Aizawl	36.4	10.7	12.8	4.9	3.5	2.1	2.7	3.1	2.5
3	<i>M. berdmorei</i> sensu stricto	MZMU A-8004	F	India, Mizoram, Aizawl	36.3	10.6	13.5	4.8	3.6	2.6	2.8	3.2	2.2
4	<i>M. berdmorei</i> sensu stricto	MZMU A-8005	M	India, Mizoram, Aizawl	33.0	9.8	13.1	4.5	2.9	2.4	2.8	3.3	2.2
5	<i>M. malcolmi</i>	ZMMU A-4517/ NAP-00745	M	Vietnam, Binh Phuoc, Bu Gia Map NP	33.2	13.4	14.1	4.9	3.5	2.4	2.1	3.2	2.3
6	<i>M. malcolmi</i>	ZMMU A-4643/ NAP-02596	M	Vietnam, Dak Lak, Yok Don NP	39.4	15.1	16.1	4.8	4.2	2.7	2.6	3.4	2.5
7	<i>M. malcolmi</i>	ZMMU A-5073/ NAP-02973	M	Vietnam, Lam Dong, Bi Doup-Nui Ba NP, Hon Giao	34.8	12.4	13.0	4.1	3.8	2.8	1.8	3.2	1.9
8	<i>M. malcolmi</i>	ZMMU A-5094/ NAP-03595	M	Vietnam, Tay Ninh, Lo Go - Xa Mat NP	33.8	13.3	10.0	4.2	3.8	2.3	1.9	3.1	1.9
9	<i>M. malcolmi</i>	ZMMU A-6906/ NAP-07647	M	Vietnam, Gia Lai, Kon Chu Rang NR	35.9	15.4	15.7	5.2	3.5	2.6	2.4	3.5	2.6
10	<i>M. malcolmi</i>	ZMMU A-6907/ NAP-07648	M	Vietnam, Gia Lai, Kon Chu Rang NR	33.2	13.5	13.9	4.4	3.5	2.1	2.3	3.5	2.2
11	<i>M. malcolmi</i>	ZMMU A-6909/ NAP-07650	M	Vietnam, Gia Lai, Kon Chu Rang NR	33.8	12.9	12.5	4.7	3.9	2.5	2.6	3.3	2.4
12	<i>M. malcolmi</i>	ZMMU A-6910/ NAP-07651	M	Vietnam, Gia Lai, Kon Chu Rang NR	35.3	13.9	14.1	5.2	3.6	2.5	2.2	3.8	2.5
13	<i>M. malcolmi</i>	ZMMU A-6911/ NAP-07652	M	Vietnam, Gia Lai, Kon Chu Rang NR	34.2	14.4	14.7	4.7	3.8	2.5	2.1	3.4	2.6
14	<i>M. malcolmi</i>	ZMMU A-6978/ NAP-08144	M	Thailand, Nakhon Ratchasima, Khao Yai NP, Pha Klui Mai wtf.	38.4	15.6	14.5	5.5	4.4	2.7	2.4	3.6	2.7
15	<i>M. malcolmi</i>	ZMMU A-7967/ NAP-10256	M	Vietnam, Phu Yen, Song Hinh	36.5	14.5	14.6	4.7	3.8	2.3	2.0	3.6	2.3
16	<i>M. malcolmi</i>	ZMMU A-7969/ NAP-10258	M	Vietnam, Phu Yen, Song Hinh	34.8	13.1	14.6	4.8	3.5	2.4	2.4	3.2	2.3
17	<i>M. malcolmi</i>	ZMMU A-7971/ NAP-10285	M	Vietnam, Phu Yen, Song Hinh	37.4	15.1	12.9	5.2	3.5	2.9	2.7	3.9	2.8
18	<i>M. malcolmi</i>	ZMMU A-7972/ NAP-10286	M	Vietnam, Phu Yen, Song Hinh	34.1	14.3	13.8	4.4	3.7	2.3	2.6	3.2	2.4
19	<i>M. malcolmi</i>	ZMMU A-7973/ NAP-11215	M	Thailand, Yala, Beong, Khao Thai Cave	37.1	15.7	14.8	5.4	4.0	4.4	2.5	3.5	2.4
20	<i>M. malcolmi</i>	ZMMU A-7975/ NAP-11217	M	Thailand, Yala, Beong, Khao Thai Cave	41.8	15.7	16.9	5.0	3.9	2.8	2.3	3.3	2.8
21	<i>M. malcolmi</i>	ZMMU A-7976/ NAP-11218	M	Thailand, Yala, Beong, Khao Thai Cave	37.9	15.2	16.1	5.6	4.4	3.4	2.7	3.8	2.3
22	<i>M. malcolmi</i>	ZMMU A-7979/ NAP-11221	M	Thailand, Yala, Beong, Khao Thai Cave	36.3	15.5	14.2	5.0	3.8	2.6	2.9	3.6	2.6
23	<i>M. malcolmi</i>	ZMMU A-7980/ NAP-11222	M	Thailand, Yala, Beong, Khao Thai Cave	39.2	15.5	14.7	5.0	4.3	3.1	2.8	3.5	2.1
24	<i>M. malcolmi</i>	ZMMU A-7984/ NAP-11424	M	Thailand, Yala, Betong, Winter Flower Garden	39.2	14.9	15.7	5.8	4.2	3.1	2.9	3.8	2.1
25	<i>M. malcolmi</i>	ZMMU A-7988/ NAP-12880	M	Vietnam, Dong Nai, Ma Da NR	38.6	12.8	14.0	5.0	4.8	3.0	2.6	4.1	2.4
26	<i>M. malcolmi</i>	ZMMU A-7989/ NAP-12880	M	Thailand, Surat Thani, Khao Sok	34.3	12.4	12.8	4.9	3.8	2.8	2.2	3.1	3.0

27	<i>M. malcolmi</i>	NAP-12933 ZMMU A-4710/ NAP-01728	SM	Vietnam, Lam Dong, Bi Doup - Nui Ba NP, Giang Ly	31.3	12.5	10.3	5.1	3.7	2.4	2.6	3.2	1.9
28	<i>M. malcolmi</i>	ZMMU A-5073/ NAP-01721	SM	Vietnam, Lam Dong, Bi Doup - Nui Ba NP, Giang Ly	31.5	13.3	13.4	5.2	3.3	2.7	2.1	3.2	1.4
29	<i>M. malcolmi</i>	ZMMU A-5094/ NAP-03596	SM	Vietnam, Tay Ninh, Lo Go - Xa Mat NP	31.8	12.8	11.6	4.2	3.9	2.6	2.0	2.2	1.9
30	<i>M. malcolmi</i>	ZMMU A-6544/ NAP-06475	SM	Vietnam, Kon Tum, Kon Plong, Thac Nham FR	29.1	11.5	11.5	4.1	3.0	2.0	2.0	2.6	1.7
31	<i>M. malcolmi</i>	ZMMU A-6905/ NAP-07576	SM	Vietnam, Gia Lai, Kon Chu Rang NR	32.2	13.9	13.8	4.7	3.7	2.4	2.0	3.4	2.4
32	<i>M. malcolmi</i>	ZMMU A-6908/ NAP-07649	SM	Vietnam, Gia Lai, Kon Chu Rang NR	32.7	13.9	14.8	5.2	3.5	2.2	2.1	3.5	2.1
33	<i>M. malcolmi</i>	ZMMU A-6912/ NAP-07684	SM	Vietnam, Gia Lai, Kon Chu Rang NR	33.0	13.1	13.6	4.5	3.8	2.2	2.2	3.5	2.3
34	<i>M. malcolmi</i>	ZMMU A-7666/ NAP-09133	SM	Laos, Khammouan, Nahin, Nam Sa Nam wtf.	27.1	9.4	10.3	4.1	2.7	2.2	2.0	2.7	1.9
35	<i>M. malcolmi</i>	ZMMU A-7667/ NAP-09134	SM	Laos, Khammouan, Nahin, Nam Sa Nam wtf.	25.4	8.8	9.3	3.4	2.7	2.0	2.0	2.4	1.9
36	<i>M. malcolmi</i>	ZMMU A-7668/ NAP-09137	SM	Laos, Khammouan, Nahin, Nam Sa Nam wtf.	31.2	11.3	11.2	4.6	3.2	2.4	1.8	3.0	2.4
37	<i>M. malcolmi</i>	ZMMU A-7993/ PVY-00056	SM	Vietnam, Lam Dong, Bi Doup - Nui Ba NP, Bi Doup Mt.	29.4	10.2	12.1	4.6	3.9	2.3	2.1	2.8	1.8
38	<i>M. malcolmi</i>	ZMMU A-7996/ PVY-00106	SM	Vietnam, Gia Lai, Kon Chu Rang NR	31.5	11.2	13.0	5.1	3.5	2.8	2.2	3.2	2.5
39	<i>M. malcolmi</i>	ZMMU A-7998/ PVY-00237	SM	Vietnam, Gia Lai, Kon Chu Rang NR, K50 waterfall	32.4	10.7	12.5	4.7	3.2	2.5	2.3	3.1	2.3
40	<i>M. malcolmi</i>	ZMMU A-4603/ NAP-02009	SF	Vietnam, Dong Nai, Cat Tien NP, Nam Cat Tien	33.1	13.8	11.4	4.8	3.5	2.5	2.2	3.2	2.6
41	<i>M. malcolmi</i>	ZMMU A-4643/ NAP-02595	F	Vietnam, Dak Lak, Yok Don NP	42.1	16.2	16.7	5.4	4.1	2.9	2.2	3.6	2.7
42	<i>M. malcolmi</i>	ZMMU A-4731/ NAP-01546	SF	Vietnam, Dong Nai, Ma Da NR	34.5	13.2	14.0	4.4	3.8	2.3	2.2	3.5	2.3
43	<i>M. malcolmi</i>	ZMMU A-5073/ NAP-01314	F	Vietnam, Lam Dong, Bi Doup - Nui Ba NP, Giang Ly	36.9	14.6	13.5	5.3	4.1	3.6	2.3	3.6	1.9
44	<i>M. malcolmi</i>	ZMMU A-5094/ NAP-03594	SF	Vietnam, Tay Ninh, Lo Go - Xa Mat NP	34.2	13.9	10.1	4.5	4.1	2.5	2.3	3.3	1.7
45	<i>M. malcolmi</i>	ZMMU A-7968/ NAP-10257	F	Vietnam, Phu Yen, Song Hinh	37.6	15.2	13.6	4.8	3.2	2.1	2.5	3.4	2.5
46	<i>M. malcolmi</i>	ZMMU A-7970/ NAP-10259	F	Vietnam, Phu Yen, Song Hinh	37.9	15.6	13.0	5.1	3.4	2.6	2.8	3.7	2.7
47	<i>M. malcolmi</i>	ZMMU A-7974/ NAP-11216	F	Thailand, Yala, Beong, Khao Thai Cave	39.1	15.5	11.8	5.8	4.0	2.5	2.9	3.6	2.7
48	<i>M. malcolmi</i>	ZMMU A-7977/ NAP-11219	F	Thailand, Yala, Beong, Khao Thai Cave	43.8	15.9	15.4	5.9	3.4	3.1	3.3	4.0	2.7
49	<i>M. malcolmi</i>	ZMMU A-7978/ NAP-11220	F	Thailand, Yala, Beong, Khao Thai Cave	39.9	16.8	15.6	5.9	4.1	3.2	3.0	3.8	2.4
50	<i>M. malcolmi</i>	ZMMU A-7981/ NAP-11421	F	Thailand, Yala, Betong, Winter Flower Garden	39.9	15.3	13.7	5.3	4.2	3.2	2.8	3.8	2.7
51	<i>M. malcolmi</i>	ZMMU A-7982/ NAP-11422	F	Thailand, Yala, Betong, Winter Flower Garden	40.6	12.4	14.2	5.6	3.7	2.8	2.9	3.9	2.3
52	<i>M. malcolmi</i>	ZMMU A-7983/ NAP-11423	F	Thailand, Yala, Betong, Winter Flower Garden	41.0	13.0	14.4	5.7	4.3	3.4	2.7	3.6	2.6
53	<i>M. malcolmi</i>	ZMMU A-7990/ NAP-12934	F	Thailand, Surat Thani, Khao Sok	41.4	14.1	15.2	5.6	3.9	2.8	2.9	3.6	2.8

54	<i>M. malcolmi</i>	ZMMU A-7991/ ISS-098	F	Thailand, Satun, Thale Ban NP								40.7	11.1	15.3	5.2	4.1	2.9	3.1	3.6	2.9
55	<i>M. malcolmi</i>	ZMMU A-7997/ PVY-00179	F	Vietnam, Gia Lai, Kon Chu Rang NR								36.9	15.3	14.8	5.1	3.9	2.4	2.5	3.4	2.7
56	<i>M. malcolmi</i>	ZMMU A-7999/ PVY-00264	F	Vietnam, Lam Dong, Da Lat								36.0	11.8	13.4	5.5	4.1	3.1	2.7	3.6	2.5

Table S2. (Continued).

No.	Species	Museum ID	Sex	FLL	LAL	HAL	1FL	1PTL	OPTL	3FDD	HLL	TL	FL	IMTL	1TOEL	OMTL	4TDD
1	<i>M. berdmorei</i> sensu stricto	MZMU A-8000	F	21.8	16.9	9.5	2.6	1.4	1.5	1.1	80.9	28.4	23.1	1.6	5.2	1.3	1.7
2	<i>M. berdmorei</i> sensu stricto	MZMU A-8003	F	19.2	16.2	9.2	2.3	1.2	1.1	1.1	73.9	25.8	22.2	1.8	4.9	1.7	2.0
3	<i>M. berdmorei</i> sensu stricto	MZMU A-8004	F	19.2	16.3	8.7	2.9	1.3	1.8	0.9	72.8	27.0	18.8	1.4	5.3	1.4	1.5
4	<i>M. berdmorei</i> sensu stricto	MZMU A-8005	M	18.3	15.7	8.6	3.0	1.4	1.3	1.0	69.8	24.5	21.1	2.2	4.9	1.3	1.7
5	<i>M. malcolmi</i>	ZMMU A-4517/ NAP-00745	M	17.7	14.8	6.6	2.0	1.0	1.2	0.8	65.6	26.0	18.1	1.5	3.8	0.9	1.7
6	<i>M. malcolmi</i>	ZMMU A-4643/ NAP-02596	M	23.4	18.1	8.1	2.7	1.2	1.2	0.7	77.5	30.6	21.8	1.4	4.5	1.0	1.0
7	<i>M. malcolmi</i>	ZMMU A-5073/ NAP-02973	M	19.4	13.3	5.2	2.6	1.4	1.3	0.7	55.7	21.2	16.0	1.4	4.0	1.2	1.2
8	<i>M. malcolmi</i>	ZMMU A-5094/ NAP-03595	M	20.0	14.3	6.6	2.1	1.0	1.1	0.6	63.3	25.3	17.3	1.1	3.9	1.8	1.0
9	<i>M. malcolmi</i>	ZMMU A-6906/ NAP-07647	M	20.4	16.3	7.0	3.2	1.0	1.2	0.6	70.8	25.0	20.2	1.2	4.2	1.1	1.4
10	<i>M. malcolmi</i>	ZMMU A-6907/ NAP-07648	M	17.8	15.2	6.3	2.2	1.1	1.0	0.9	66.5	22.8	18.9	1.2	4.2	0.8	1.4
11	<i>M. malcolmi</i>	ZMMU A-6909/ NAP-07650	M	18.7	14.4	6.5	2.2	1.1	1.2	0.7	68.8	24.8	19.3	1.4	3.8	1.3	1.2
12	<i>M. malcolmi</i>	ZMMU A-6910/ NAP-07651	M	17.8	14.8	6.5	2.7	1.1	1.3	0.9	68.2	25.6	16.8	1.4	4.0	1.0	0.9
13	<i>M. malcolmi</i>	ZMMU A-6911/ NAP-07652	M	17.5	14.8	6.8	2.2	0.9	1.3	0.8	70.2	25.0	17.8	1.4	4.1	0.9	1.6
14	<i>M. malcolmi</i>	ZMMU A-6978/ NAP-08144	M	21.6	16.5	7.7	3.3	1.3	1.6	0.8	79.5	28.9	23.2	1.5	4.7	1.3	1.4
15	<i>M. malcolmi</i>	ZMMU A-7967/ NAP-10256	M	21.6	16.3	6.8	2.4	1.1	1.3	0.9	71.4	26.1	18.9	1.6	4.6	1.0	1.4
16	<i>M. malcolmi</i>	ZMMU A-7969/ NAP-10258	M	20.2	15.9	7.0	2.7	1.3	1.6	0.8	74.9	26.3	20.0	1.3	4.8	1.1	1.4
17	<i>M. malcolmi</i>	ZMMU A-7971/ NAP-10285	M	19.3	16.3	7.0	2.4	1.0	1.3	0.7	75.5	27.5	20.7	1.1	4.7	0.9	1.6
18	<i>M. malcolmi</i>	ZMMU A-7972/ NAP-10286	M	19.0	16.1	6.6	2.2	0.9	1.2	0.5	69.0	25.2	19.1	1.0	4.0	0.9	1.1
19	<i>M. malcolmi</i>	ZMMU A-7973/ NAP-11215	M	21.8	16.7	9.1	3.0	1.4	1.4	0.8	79.9	29.6	21.8	2.0	4.4	2.2	1.6
20	<i>M. malcolmi</i>	ZMMU A-7975/ NAP-11217	M	22.2	17.0	9.3	2.9	1.6	1.9	0.7	76.1	29.5	22.1	1.8	4.9	2.2	1.7

21	<i>M. malcolmi</i>	ZMMU A-7976/ NAP-11218	M	20.3	14.9	8.3	3.0	1.4	1.8	1.0	77.7	27.4	22.2	2.3	4.3	2.3	1.5
22	<i>M. malcolmi</i>	ZMMU A-7979/ NAP-11221	M	20.6	16.4	9.9	2.6	1.4	1.9	0.8	77.0	27.9	23.4	1.9	5.5	2.2	1.4
23	<i>M. malcolmi</i>	ZMMU A-7980/ NAP-11222	M	22.0	17.5	10.2	2.8	1.5	1.5	0.9	79.8	29.0	22.7	1.9	5.4	2.8	1.5
24	<i>M. malcolmi</i>	ZMMU A-7984/ NAP-11424	M	20.3	15.8	9.5	2.4	1.7	1.7	1.2	77.8	29.1	22.1	1.4	4.4	2.6	1.7
25	<i>M. malcolmi</i>	ZMMU A-7988/ NAP-12880	M	21.7	17.2	9.3	2.6	1.4	2.0	1.1	77.4	28.0	22.9	1.7	4.9	2.7	1.8
26	<i>M. malcolmi</i>	ZMMU A-7989/ NAP-12933	M	20.5	16.0	9.1	2.8	1.2	1.6	0.8	71.9	26.3	20.1	1.1	4.9	2.2	1.6
27	<i>M. malcolmi</i>	ZMMU A-4710/ NAP-01728	SM	19.5	14.7	6.0	2.7	1.2	1.2	0.7	64.9	25.5	18.6	1.1	4.5	1.8	1.1
28	<i>M. malcolmi</i>	ZMMU A-5073/ NAP-01721	SM	18.6	14.1	5.9	2.0	0.8	1.0	0.7	64.1	23.2	17.8	1.2	4.3	1.8	1.1
29	<i>M. malcolmi</i>	ZMMU A-5094/ NAP-03596	SM	19.3	14.6	5.9	2.1	0.8	1.3	0.6	62.1	23.4	17.2	1.3	3.3	1.5	0.8
30	<i>M. malcolmi</i>	ZMMU A-6544/ NAP-06475	SM	18.3	14.4	6.4	2.0	1.4	1.4	0.6	58.6	23.1	14.5	0.7	3.8	0.9	1.0
31	<i>M. malcolmi</i>	ZMMU A-6905/ NAP-07576	SM	18.6	15.3	6.9	2.7	1.2	1.5	0.7	69.6	23.4	18.1	1.6	3.8	0.9	1.1
32	<i>M. malcolmi</i>	ZMMU A-6908/ NAP-07649	SM	18.8	15.2	5.8	2.0	1.5	1.2	0.6	66.1	23.2	18.1	1.0	4.0	1.6	1.0
33	<i>M. malcolmi</i>	ZMMU A-6912/ NAP-07684	SM	19.0	14.9	6.0	2.9	0.8	1.3	0.8	65.8	23.5	17.2	1.1	4.1	0.5	1.4
34	<i>M. malcolmi</i>	ZMMU A-7666/ NAP-09133	SM	16.1	13.3	7.5	1.7	1.1	1.5	0.6	62.1	21.2	19.1	1.4	3.7	1.8	1.1
35	<i>M. malcolmi</i>	ZMMU A-7667/ NAP-09134	SM	13.9	11.9	6.6	1.8	0.8	1.1	0.8	55.7	20.1	17.2	1.7	3.5	1.5	1.3
36	<i>M. malcolmi</i>	ZMMU A-7668/ NAP-09137	SM	19.2	14.9	8.2	2.3	1.5	1.1	0.7	65.7	24.7	20.4	1.6	4.6	0.9	1.5
37	<i>M. malcolmi</i>	ZMMU A-7993/ PVY-00056	SM	17.8	14.7	8.3	2.5	1.5	1.7	0.7	66.7	22.8	18.9	1.5	4.6	2.0	1.2
38	<i>M. malcolmi</i>	ZMMU A-7996/ PVY-00106	SM	22.2	16.9	9.6	2.7	1.2	1.8	1.0	72.7	25.8	21.6	1.5	4.4	2.2	1.3
39	<i>M. malcolmi</i>	ZMMU A-7998/ PVY-00237	SM	18.1	14.9	8.2	2.4	1.5	1.6	1.0	70.4	25.6	20.9	1.3	4.0	1.6	1.5
40	<i>M. malcolmi</i>	ZMMU A-4603/ NAP-02009	SF	20.1	15.8	8.3	2.6	1.2	1.5	0.8	68.3	25.8	19.0	1.1	4.5	1.6	1.5
41	<i>M. malcolmi</i>	ZMMU A-4643/ NAP-02595	F	24.8	18.3	7.8	2.4	1.2	1.7	0.8	81.1	32.6	22.3	1.6	5.0	1.2	1.3
42	<i>M. malcolmi</i>	ZMMU A-4731/ NAP-01546	SF	21.9	15.7	6.7	2.5	1.2	1.2	0.6	75.9	29.2	19.7	1.2	4.4	1.0	1.2
43	<i>M. malcolmi</i>	ZMMU A-5073/ NAP-01314	F	21.6	16.0	7.8	2.7	1.0	1.5	0.7	70.3	26.0	19.4	1.8	5.3	1.3	1.2
44	<i>M. malcolmi</i>	ZMMU A-5094/ NAP-03594	SF	18.2	14.9	5.7	2.5	1.1	1.1	0.6	72.1	27.1	19.4	1.3	4.4	1.9	1.1
45	<i>M. malcolmi</i>	ZMMU A-7968/ NAP-10257	F	21.4	15.8	6.4	2.8	1.4	1.6	0.7	73.9	26.6	21.5	1.3	3.3	1.0	1.5
46	<i>M. malcolmi</i>	ZMMU A-7970/ NAP-10259	F	20.6	15.5	6.5	2.3	1.3	1.3	0.7	73.9	26.8	20.6	1.2	4.5	1.4	1.7
47	<i>M. malcolmi</i>	ZMMU A-7974/ NAP-11216	F	20.1	16.0	8.8	2.0	1.6	1.3	0.8	79.6	28.2	22.9	1.3	5.0	1.6	1.6
48	<i>M. malcolmi</i>	ZMMU A-7977/ NAP-11216	F	22.1	16.6	9.8	3.4	1.4	1.5	1.1	79.2	29.9	23.9	1.4	6.0	2.5	1.4

49	<i>M. malcolmi</i>	NAP-11219 ZMMU A-7978/ NAP-11220	F	24.9	17.5	10.7	3.3	1.4	1.5	1.0	86.6	32.4	25.7	1.4	5.6	2.4	1.4
50	<i>M. malcolmi</i>	ZMMU A-7981/ NAP-11421	F	23.1	16.9	9.5	3.1	1.4	1.7	1.1	84.0	31.5	24.0	1.2	5.3	1.1	1.5
51	<i>M. malcolmi</i>	ZMMU A-7982/ NAP-11422	F	19.1	15.8	8.3	3.0	1.7	1.8	1.0	79.8	28.6	23.1	1.5	4.6	2.0	1.8
52	<i>M. malcolmi</i>	ZMMU A-7983/ NAP-11423	F	21.9	17.9	9.8	2.4	1.5	2.0	1.1	82.4	31.0	24.8	1.2	5.4	2.0	1.6
53	<i>M. malcolmi</i>	ZMMU A-7990/ NAP-12934	F	25.4	18.5	11.5	3.2	1.5	2.1	1.1	86.8	32.9	26.6	1.8	6.4	1.1	1.9
54	<i>M. malcolmi</i>	ZMMU A-7991/ ISS-098	F	19.2	15.0	8.8	3.0	1.4	1.5	0.7	74.1	27.4	22.6	1.6	5.0	2.2	1.5
55	<i>M. malcolmi</i>	ZMMU A-7997/ PVY-00179	F	18.0	15.6	9.0	2.9	1.6	2.0	0.8	75.3	27.0	22.0	1.3	4.2	2.2	1.4
56	<i>M. malcolmi</i>	ZMMU A-7999/ PVY-00264	F	18.9	16.2	10.0	3.2	1.5	1.8	0.9	70.1	26.7	20.8	1.5	5.4	2.2	1.0

Table S3. Primers used in this study. “F,” “L”–forward primer, “R,” “H”– reverse primer.

Gene	Primer name	Primer sequence (5'–3')	Source
12S rRNA	1F-12Stail	ACGCTAAAATGWACCCTAAAAAGT	Gorin et al. (2020)
12S rRNA	600R-12Stail	TAGAGGAGCCTGTTCTATAATCGATTC	Gorin et al. (2020)
12S rRNA—16S rRNA	500F-12Stail	CCACTTGAACCCACGACAGCTAGRAMACAA	Gorin et al. (2020)
12S rRNA—16S rRNA	12SA-L	AAACTGGGATTAGATACCCCACTAT	Palumbi et al. (1991)
	1200R-		
12S rRNA—16S rRNA	12Stail	AGTAAAGGCGATYAAAAAATRTTTCAAAG	Gorin et al. (2020)
12S rRNA—16S rRNA	R-1169	GTGGCTGCTTTTAGGCCACT	Nguyen et al. (2019)
16S rRNA	L-2188	AAAGTGGGCCTAAAAGCAGCCA	Matsui et al. (2006)
16S rRNA	16SL-1	CTGACCGTGCAAAGGTAGCGTAATCACT	Hedges (1994)
16S rRNA	16SH-1	CTCCGGTCTGAACTCAGATCACGTAGG	Hedges (1994)
COI	LCOI-C02	AYT CAA CAA ATC ATA AAG ATA TTG G	Vences et al. (2012)
COI	RCOI-C04	ACY TCR GGR TGA CCA AAA AAT CA	Vences et al. (2012)
BDNF	BDNFAmpF1	ACCATCCTTTTCCTTACTATGG	van der Meijden et al. (2007)
BDNF	BDNFAmpR1	CTATCTTCCCCTTTTAATGGTC	van der Meijden et al. (2007)

Table S4. Characteristics of analyzed single-marker DNA sequences and the proposed optimal evolutionary models for gene and codon partitions as estimated in PartitionFinder v1.0.1. Total length (in bp), number of conservative (Cons.), variable (Var.) and parsimony informative (Pars.-Inf.) sites, estimated Transition/Transversion bias (R), and nucleotide frequencies (in %) are given (data presented only for the ingroup). The optimal partitioning scheme and model fit was estimated as suggested by the Akaike information criterion (AIC).

No.	Gene	Total length	Cons.	Var.	Pars.-Inf.	R	A	T	C	G	Codon partition	Model
1	COI	719	524	195	149	3.04	32.19%	29.29%	27.01%	16.87%	COI - 1	GTR+I+G
											COI - 2	GTR+I+G
											COI - 3	GTR+G
2	12S rRNA – 16S rRNA	2400	1892	506	264	2.00	34.47%	23.89%	23.09%	18.55%	—	GTR+I+G
3	BDNF	716	544	13	5	1.17	29.31 %	22.49 %	21.34 %	26.85 %	BDNF - 1	K2P+I
											BDNF - 2	K2P+G
											BDNF - 3	HKY+I+G

Table S5. Outgroup taxa used for divergence time estimation in *Microhyla berdmorei* complex.

No.	Species	Locality	Museum/ Sample ID	12S rRNA	16S rRNA	BDNF	Reference
136	<i>Microhyla achatina</i> *	Indonesia, Java, Ujung Kulong	ZMMU A5070	MN534670	MN534462, MN534563	MN534402	Gorin et al. (2020)
137	<i>Microhyla beilunensis</i> *	China, Sichuan	CIB 20070248	AB634611	AB634669	–	Matsui et al. (2011)
138	<i>Microhyla borneensis</i> *	Malaysia, Sarawak, Kidi (Bidi)	UNIMAS FN 1874ZAC600	–	MN534550, MN534657	MN534394	Gorin et al. (2020)
139	<i>Microhyla butleri</i> *	China, Taiwan, Kaohsiung, Yanchao, Zhongliao Mt.	ZMMU A5335-40	MN534735	MN534626	MN534436	Gorin et al. (2020)
140	<i>Microhyla chakrapanii</i> *	India, Andaman Island, Havelock	ZISP 13874	MN534698	MN534490, MN534591	MN534422	Gorin et al. (2020)
141	<i>Microhyla darreli</i> *	India, Kerala, Thiruvanan Thapuram, Karamana	ZSI/WGRC/V/A/962	–	MH807390	MH807429	Garg et al. (2019)
142	<i>Microhyla eos</i> *	India, Arunachal Pradesh, Changlang, Namdapha N. P.	ZSIC 14312	–	MN160599	MN167548	Biju et al. (2019)
143	<i>Microhyla fissipes</i> *	China, Taiwan, Kaohsiung, Zhongliao Mt.	ZMMU A5333	MN534695	MN534487, MN534588	MN534419	Gorin et al. (2020)
144	<i>Microhyla fodiens</i> *	Myanmar, Magway, Kan Pauk	ZMMU A5961	MK208927		MN534401	Gorin et al. (2020)
145	<i>Microhyla gadjahmadai</i> *	Indonesia, Sumatra, Lampung	MZB Amp 15291	AB634622	AB634680	–	Matsui et al. (2011)
146	<i>Microhyla heymonsi</i> *	China, Taiwan, Pingtung, Yongchin, Qi Kong	ZMMU A4975	MN534679	MN534471, MN534572	MN534407	Gorin et al. (2020)
147	<i>Microhyla irrawaddy</i> *	Myanmar, Magway, Pakkoku	ZMMU A5966	MK208928		MN534403	Gorin et al. (2020)
148	<i>Microhyla karunaratnei</i> *	Sri Lanka, Sinharaja FR	released	MN534738	MN534524, MN534629	MN534438	Gorin et al. (2020)

149	<i>Microhyla kuramotoi</i> *	Japan, Okinawa, Ishigaki Isl.	released	MN534700	MN534492, MN534593	MN534424	Gorin et al. (2020)
150	<i>Microhyla kodial</i> *	India, Karnataka, Mangaluru	–	–	MF919454	MH807431	Vineeth et al. (2018)
151	<i>Microhyla laterite</i> *	India, Karnataka, Udupi, Manipal	BNHS 5965	KT600670	KT600663	MH807432	Seshadri et al. (2016)
152	<i>Microhyla malang</i> *	Malaysia, Sarawak, Kubah NP	ZMMU A6043	MN534662	MN534454, MN534555	MN534396	Gorin et al. (2020)
153	<i>Microhyla mantheyi</i> *	Malaysia, Kuala Tahan	ZMMU NAP-6746	MN534666	MN534458, MN534559	MN534398	Gorin et al. (2020)
154	<i>Microhyla mihintalei</i> *	Sri Lanka, Rathambaldama	released	MN534726	MN534515, MN534619	MN534430	Gorin et al. (2020)
155	<i>Microhyla minuta</i> *	Vietnam, Dong Nai, Cat Tien NP	ZMMU A5048-96	MN534668	MN534460, MN534561	MN534400	Gorin et al. (2020)
156	<i>Microhyla mixtura</i> *	China, Sichuan, Wanyuan, Hua Mt.	CIB 20170526001	MH234529	MH234540	–	Zhang et al. (2018)
157	<i>Microhyla mukhlesuri</i> *	Malaysia, Tasik Pedu Lake, Kedah	ZMMU NAP-6829	MN534694	MN534486, MN534587	MN534417	Gorin et al. (2020)
158	<i>Microhyla mymensinghensis</i> *	Bangladesh, Mymensingh	IABHU-4129	MN534699	MN534491, MN534592	MN534423	Gorin et al. (2020)
159	<i>Microhyla nepenthicola</i> *	Malaysia, Borneo, Sarawak, Kubah NP	ZMMU A6028-1	MN534658	MN534450, MN534551	MN534393	Gorin et al. (2020)
160	<i>Microhyla nilphamariensis</i> *	Bangladesh, Dinajpur, Parbatipur	DB-Hi-FROG 12005	AB201176	AB201187	MH807435	Matsui et al. (2005)
161	<i>Microhyla okinavensis</i> *	Japan, Okinawa island, Yomitan son, Kina	ZMMU A6027-1	MN534704	MN534496, MN534597	MN534426	Gorin et al. (2020)
162	<i>Microhyla orientalis</i> *	Indonesia, Java, Yogyakarta	ZMMU A5067-2	MN534664	MN534456, MN534557	MN534397	Gorin et al. (2020)

163	<i>Microhyla ornata</i> *	Sri Lanka, Rathambaldama	released	MN534723	MN534512, MN534616	MN534428	Gorin et al. (2020)
164	<i>Microhyla palmipes</i> *	Indonesia, Bali, Bedegul	MZB Amp 16255	AB634612	AB634670	MN539668	Matsui et al. (2011)
165	<i>Microhyla pineticola</i> *	Vietnam, Lam Dong, Bidoup - Nui Ba NP, Giang Ly	ZMMU A5080-50	MN534673	MN534465, MN534566	MN534399	Gorin et al. (2020)
166	<i>Microhyla pulchra</i> *	Laos, Khammouan, Nakai-Nam Theun NBCA	ZISP FN-00154	MN534716	MN534507, MN534609	EF396021	Gorin et al. (2020)
167	<i>Microhyla rubra</i> *	India, Andhra Pradesh, Bapatla	ZMMU A5006-19	MK208936		MN534429	Poyarkov et al. (2019); Gorin et al. (2020)
168	<i>Microhyla sholigari</i> *	India, Karnataka, Udupi District, Manipal	ATREE MISH 3	KT600669	KT600676	MH807438	Seshadri et al. (2016)
169	<i>Microhyla superciliaris</i> *	Thailand, Songkhla	ZMMU A6024-1	MN534744	MN534530, MN534635	MN534441	Gorin et al. (2020)
170	<i>Microhyla taraiensis</i> *	Nepal, Mechi, Jamun Khadi, Jhapa	–	MF496241		–	Wang et al. (2018)
171	<i>Microhyla tetrix</i> *	Thailand, Suratthani, Khao Sok NP	ZMMU A6034	MN534742	MN534528, MN534633	MN534439	Gorin et al. (2020)
172	<i>Microhyla zeylanica</i> *	Sri Lanka, Central Province, Nuwara Eliya	released	MN534737	MN534523, MN534628	MN534437	Gorin et al. (2020)
173	<i>Microhyla</i> sp. 1*	Malaysia, Borneo, Sabah, Danum Valley	RMBR 2171	MN534660	MN534452, MN534553	MN534395	Gorin et al. (2020)
174	<i>Nanohyla annamensis</i> *	Vietnam, Lam Dong, Bidoup- Nui BaNP	ZMMU A5075-06	MN534748	MN534533, MN534639	MN534443	Gorin et al. (2020)
175	<i>Nanohyla annectens</i> *	Malaysia, Selangor, Genting	ZMMU A6042-1	MN534746	MN534531, MN534637	MN534442	Gorin et al. (2020)
176	<i>Nanohyla arboricola</i> *	Vietnam, Dak Lak, Chu Yang Sin NP	ZMMU A4845-60	MN534759	MN534543, MN534650	MN534446	Gorin et al. (2020)

177	<i>Nanohyla hongiaoensis</i> *	Vietnam, Lam Dong, Bi Doup-Nui Ba NP	CIB-VNMN 07617	MN475176		-	Hoang et al. (2020)
178	<i>Nanohyla marmorata</i> *	Vietnam, Kon Tum, Kon Plong	ZPMSU 04854	MN534750	MN534535, MN534641	MN534445	Gorin et al. (2020)
179	<i>Nanohyla nanapollexa</i> *	Vietnam, Kon Tum, Kon Plong	ZMMU A5635	MN534757	MN534541, MN534648	MN534444	Gorin et al. (2020)
180	<i>Nanohyla perparva</i> *	Indonesia, Kalimantan, Balikpapan	KUHE UN	AB634614	AB634672	-	Matsui et al. (2011)
181	<i>Nanohyla petrigena</i> *	Malaysia, Sarawak, Bukit Kana	KUHE 53743	AB634617	AB634675	-	Matsui et al. (2011)
182	<i>Nanohyla pulchella</i> *	Vietnam, Lam Dong, Bidoup - Nui Ba NP	ZMMU A5045	MN534765	MN534549, MN534656	MN534448	Gorin et al. (2020)
183	<i>Glyphoglossus capsus</i> *	Malaysia, Sarawak, Padawan, Gunung Penrissen MTs	UNIMAS MYS:9389	-	KJ488544	-	Das et al. (2014)
184	<i>Glyphoglossus guttulatus</i> *	Thailand, Kanchanaburi, Piloc	KUHE 35163	AB634627	AB634685	-	Matsui et al. (2011)
185	<i>Glyphoglossus minutus</i> *	Malaysia, Pahang, Temerloh	KUHE 52463	AB598316	AB598340	-	Matsui (2011)
186	<i>Glyphoglossus molossus</i> *	Thailand, Tak, Barrntak	KUHE 35182	AB201182	AB201193	-	Matsui et al. (2005)
187	<i>Glyphoglossus yunnanensis</i> *	China, pet trade	KUHE 44148	AB634626	AB634684	-	Matsui et al. (2011)
188	<i>Chaperina fusca</i> *	Malaysia, Sabah, Crocker	BORN 8478	AB598318	AB598342	AB611868	Matsui (2011)
189	<i>Dyscophus guineti</i> *	Pet trade	KUHE 33150	AB634648	AB634706	KM509260	Matsui et al. (2011)
190	<i>Gastrophryne carolinensis</i> *	USA, Florida, Camel Lake	CAS 214349	KM509133		KM509266	Peloso et al. (2016)
191	<i>Gastrophryne olivacea</i> *	USA, Texas, Dimmit	KUHE 33224	AB634650	AB634708	AB611899	Matsui et al. (2011)
192	<i>Kaloula baleata</i> *	Indonesia, Sumba	KUHE 32313	AB634629	AB634687	KM509289	Matsui et al. (2011)
193	<i>Kaloula rugifera</i> *	China	-	KP682314		-	Deng et al. (2015)
194	<i>Metaphrynella pollicaris</i> *	Malaysia, Pahang, Fraser's Hill	KUZ 21655	AB634634	AB634692	AB611930	Matsui et al. (2011)

195	<i>Metaphrynella sundana</i> *	Malaysia, Borneo, Sabah, Crocker	BORN 8191	AB634635	AB634693	AB611938	Matsui et al. (2011)
196	<i>Micryletta inornata</i> *	Thailand, Phrae, Mae Yom	KUHE 20497	AB598317	AB598341	KM509304	Matsui (2011)
197	<i>Micryletta nigromaculata</i> *	Vietnam, Hai Phong, Cat Ba NP	ZMMU A5934	-	MH756150	MN534449	Poyarkov et al. (2018a); Gorin et al. (2020)
198	<i>Micryletta steinegeri</i> *	China, Taiwan, Yunlin	KUHE 35937	AB634638	AB634696	-	Matsui et al. (2011)
199	<i>Mysticellus franki</i> *	India, Kerala, Suganthagiri	ZSI/WGRC/V/A/967	-	MK285340	MK285342	Garg and Biju, (2019)
200	<i>Phrynella pulchra</i> *	Malaysia, Trengganu, Hulu Trengganu	UKMHC 820	AB634636	AB634694	AB611972	Matsui et al. (2011)
201	<i>Rhacophorus schlegelii</i> *	Japan, Hiroshima	-	AB202078	AB202078	-	Sano et al. (2005)
202	<i>Uperodon taprobanicus</i> *	Sri Lanka	KUHE 37252	AB634633	AB634691	AB611925	Matsui et al. (2011)
203	<i>Alytes dickhilleni</i> *	Spain, Sierra Nevada, Parejo	-	AY333672	AY333710	EF407511	Fromhage et al. (2004)
204	<i>Alytes muletensis</i> *	Spain, Mallorca	ZFMK 44683	AY333671	AY333709	EF407510	Fromhage et al. (2004)
205	<i>Blommersia transmarina</i> *	Comoro Islands	ZSM 652 2000	AY341585	AY341639	EF396017	Fromhage et al. (2004)
206	<i>Blommersia wittei</i> *	Madagascar, Montagne d'Ambre	2002 876	AY341586	AY848105	EF396018	Fromhage et al. (2004)

Table S6. Calibration points for divergence time estimation. Node – tree node used for calibration, for node names see Figure S3; divergence time given in millions years (Ma).

Node	Cladogenetic event	Estimated date (Ma)	Standart deviation (Ma)	Prior distribution	Reference
17	<i>Microhyla</i> – <i>Glyphoglossus</i> assemblage basal split	44.54	7.01	normal	Kurabayashi et al. (2011)
30	Divergence between MRCA of <i>M. butleri</i> species group and other <i>Microhyla</i>	18.98	3.85	normal	Kurabayashi et al. (2011)
57	Split between MRCA of <i>M. achatina</i> and <i>M. fissipes</i> species groups	13.89	3.03	normal	Kurabayashi et al. (2011)
6	Split between <i>Gastrophryne carolinensis</i> and <i>G. olivacea</i>	1.7	0.4	lognormal	Holman (2003)
2	Split between <i>Alytes muletensis</i> and <i>A. dickhilleni</i>	[20 - 5]	-	uniform	Fromhage et al. (2004)
4	Split between <i>Blommersia transmarina</i> and <i>B. wittei</i>	[15 - 1]	-	uniform	Vences et al. (2003)

Table S7. Summary of PC scores and statistics for the Principal Components Analysis (PCA) consisting of members of the *Microhyla berdmorei* species complex. Abbreviations are listed in the materials and methods.

Factor	PCA 1	PCA 2
Eigenvalue	4.808694	2.513234
% Total variance	36.72%	27.85%
Cumulative Eigenvalue	4.808694	7.321928
Cumulative %	36.72%	64.57%
SVL	0.697105	-0.173057
RHL	0.263553	-0.748608
RHW	-0.119335	-0.471544
REL	-0.147059	-0.383686
RSL	-0.528401	-0.163475
RN-EL	-0.252375	-0.293183
RIND	-0.763593	0.438764
RIOD	-0.650369	0.02327
UEW	-0.329635	-0.101696
R3FDD	-0.732172	0.424847
RLAL	-0.542567	-0.560109
RFL	-0.010413	-0.769692
RHLL	-0.818255	-0.225875
RTL	-0.662761	-0.310687
RFL	-0.746768	0.002476
RIMTL	-0.512619	0.05505