

Supplementary material 1 Information on samples used in molecular phylogenetic analyses.

ID	Accession No.	GenBank Name	Species	Country	Province	Voucher No.	Reference
1	PV746783	<i>L. rubritaeniata</i>	<i>L. rubritaeniata</i>	Thailand	Udon Thani	YC 03754	This study
2	PV746784	<i>L. rubritaeniata</i>	<i>L. rubritaeniata</i>	Thailand	Udon Thani	YC 03755	This study
3	PP987938.1	<i>L. reevesii</i>	<i>L. rubritaeniata</i>	Cambodia	–	LSUHC 7980	Wanchai et al. (2024)
4	PP987937.1	<i>L. reevesii</i>	<i>L. rubritaeniata</i>	Cambodia	–	LSUHC 7981	Wanchai et al. (2024)
5	PP987943.1	<i>L. reevesii</i>	<i>L. rubritaeniata</i>	Laos	–	FMNH 255474	Wanchai et al. (2024)
6	PP987942.1	<i>L. reevesii</i>	<i>L. rubritaeniata</i>	Laos	–	FMNH 255475	Wanchai et al. (2024)
7	PP987939.1	<i>L. reevesii</i>	<i>L. rubritaeniata</i>	Cambodia	–	LSUHC 7979	Wanchai et al. (2024)
8	AB537553.1	<i>L. rubritaeniata</i>	<i>L. rubritaeniata</i>	Thailand	Nakhon Ratchasima	–	–
9	PP987941.1	<i>L. reevesii</i>	<i>L. reevesii</i>	China	–	LSUHC 4260	Wanchai et al. (2024)
10	PP987915.1	<i>L. reevesii</i>	<i>L. reevesii</i>	N. Vietnam	–	ROM 25608	Wanchai et al. (2024)
11	PP987914.1	<i>L. reevesii</i>	<i>L. reevesii</i>	N. Vietnam	–	ROM 25609	Wanchai et al. (2024)
12	PP987940.1	<i>L. reevesii</i>	<i>L. reevesii</i>	China	–	LSUHC 4261	Wanchai et al. (2024)
13	PP987916.1	<i>L. reevesii</i>	<i>L. reevesii</i>	N. Vietnam	–	ROM 25065	Wanchai et al. (2024)
14	PP988006.1	<i>L. belliana</i>	<i>L. belliana</i>	W. Malaysia	–	LSUHC 4844	Wanchai et al. (2024)
15	PP988005.1	<i>L. belliana</i>	<i>L. belliana</i>	W. Malaysia	–	LSUHC 4845	Wanchai et al. (2024)
16	PP988004.1	<i>L. belliana</i>	<i>L. belliana</i>	W. Malaysia	–	LSUHC 4847	Wanchai et al. (2024)
17	PP988003.1	<i>L. belliana</i>	<i>L. belliana</i>	W. Malaysia	–	LSUHC 4848	Wanchai et al. (2024)
18	PP988002.1	<i>L. belliana</i>	<i>L. belliana</i>	W. Malaysia	–	LSUHC 4858	Wanchai et al. (2024)
19	PP988001.1	<i>L. belliana</i>	<i>L. belliana</i>	W. Malaysia	–	LSUHC 6810	Wanchai et al. (2024)
20	PP987999.1	<i>L. belliana</i>	<i>L. belliana</i>	Malaysia	Langkawi	LSUHC 6835	Wanchai et al. (2024)
21	PP987998.1	<i>L. belliana</i>	<i>L. belliana</i>	Malaysia	Langkawi	LSUHC 7595	Wanchai et al. (2024)
22	PP987997.1	<i>L. belliana</i>	<i>L. belliana</i>	W. Malaysia	–	LSUHC 8736	Wanchai et al. (2024)
23	PP987994.1	<i>L. belliana</i>	<i>L. belliana</i>	Thailand	Phuket	MVZ 215479	Wanchai et al. (2024)
24	PP987992.1	<i>L. boehmei</i>	<i>L. boehmei</i>	Thailand	Songkhla	LSUHC 9210	Wanchai et al. (2024)
25	PP987991.1	<i>L. boehmei</i>	<i>L. boehmei</i>	Thailand	Songkhla	LSUHC 9211	Wanchai et al. (2024)
26	PP987990.1	<i>L. boehmei</i>	<i>L. boehmei</i>	Thailand	Songkhla	LSUHC 9212	Wanchai et al. (2024)
27	PP987986.1	<i>L. glaurung</i>	<i>L. glaurung</i>	Thailand	Ubon Ratchathani	THNHM 30905	Wanchai et al. (2024)

28	PP987985.1	<i>L. glaurung</i>	<i>L. glaurung</i>	Thailand	Ubon Ratchathani	THNHM 30906	Wanchai et al. (2024)
29	PP987984.1	<i>L. glaurung</i>	<i>L. glaurung</i>	Thailand	Ubon Ratchathani	THNHM 30910	Wanchai et al. (2024)
30	PP987983.1	<i>L. glaurung</i>	<i>L. glaurung</i>	Thailand	Ubon Ratchathani	THNHM 30911	Wanchai et al. (2024)
31	PP987982.1	<i>L. guentherpetersi</i>	<i>L. guentherpetersi</i>	Vietnam	–	LSUHC 8265	Wanchai et al. (2024)
32	PP987981.1	<i>L. guentherpetersi</i>	<i>L. guentherpetersi</i>	Vietnam	–	LSUHC 8288	Wanchai et al. (2024)
33	PP987980.1	<i>L. guentherpetersi</i>	<i>L. guentherpetersi</i>	Vietnam	–	ROM 27322	Wanchai et al. (2024)
34	PP987979.1	<i>L. guentherpetersi</i>	<i>L. guentherpetersi</i>	Vietnam	–	ROM 27323	Wanchai et al. (2024)
35	PP987977.1	<i>L. guttata</i>	<i>L. guentherpetersi</i>	Vietnam	–	LSUHC 8291	Wanchai et al. (2024)
36	PP987976.1	<i>L. guttata</i>	<i>L. guttata</i>	Vietnam	–	LSUHC 9236	Wanchai et al. (2024)
37	PP987975.1	<i>L. guttata</i>	<i>L. guttata</i>	Vietnam	–	LSUHC 9237	Wanchai et al. (2024)
38	PP987974.1	<i>L. guttata</i>	<i>L. guttata</i>	Vietnam	–	LSUHC 9238	Wanchai et al. (2024)
39	PP987973.1	<i>L. guttata</i>	<i>L. guttata</i>	Vietnam	–	LSUHC 9239	Wanchai et al. (2024)
40	PP987972.1	<i>L. guttata</i>	<i>L. guttata</i>	Vietnam	–	LSUHC 9240	Wanchai et al. (2024)
41	PP987971.1	<i>L. guttata</i>	<i>L. guentherpetersi</i>	Vietnam	–	ROM 26325	Wanchai et al. (2024)
42	PP987970.1	<i>L. guttata</i>	<i>L. guentherpetersi</i>	Vietnam	–	ROM 41567	Wanchai et al. (2024)
43	PP987969.1	<i>L. guttata</i>	<i>L. guentherpetersi</i>	Vietnam	–	ROM 41568	Wanchai et al. (2024)
44	PP987968.1	<i>L. guttata</i>	<i>L. guentherpetersi</i>	Vietnam	–	ROM 41569	Wanchai et al. (2024)
45	PP987967.1	<i>L. guttata</i>	<i>L. guentherpetersi</i>	Vietnam	–	ROM 41570	Wanchai et al. (2024)
46	PP987965.1	<i>L. ngovantrii</i>	<i>L. ngovantrii</i>	Vietnam	–	LSUHC 8254	Wanchai et al. (2024)
47	PP987964.1	<i>L. ngovantrii</i>	<i>L. ngovantrii</i>	Vietnam	–	LSUHC 8287	Wanchai et al. (2024)
48	PP987963.1	<i>L. ocellata</i>	<i>L. ocellata</i>	Thailand	Chiang Mai	LSUHC 9489	Wanchai et al. (2024)
49	PP987962.1	<i>L. ocellata</i>	<i>L. ocellata</i>	Thailand	Chiang Mai	LSUHC 9490	Wanchai et al. (2024)
50	PP987961.1	<i>L. peguensis</i>	<i>L. peguensis</i>	Myanmar	–	CAS 210246	Wanchai et al. (2024)
51	PP987960.1	<i>L. peguensis</i>	<i>L. peguensis</i>	Myanmar	–	CAS 210326	Wanchai et al. (2024)
52	PP987957.1	<i>L. peguensis</i>	<i>L. peguensis</i>	Myanmar	–	CAS 210798	Wanchai et al. (2024)
53	PP987950.1	<i>L. peguensis</i>	<i>L. peguensis</i>	Myanmar	–	LSUHC 13466	Wanchai et al. (2024)
54	PP987949.1	<i>L. peguensis</i>	<i>L. peguensis</i>	Myanmar	–	LSUHC 13467	Wanchai et al. (2024)
55	PP987948.1	<i>L. peguensis</i>	<i>L. peguensis</i>	Myanmar	–	LSUHC 13468	Wanchai et al. (2024)
56	PP987913.1	<i>L. triploida</i>	<i>L. triploida</i>	Malaysia	–	LSUHC 8711	Wanchai et al. (2024)
57	PP987912.1	<i>L. triploida</i>	<i>L. triploida</i>	Malaysia	–	LSUHC 8712	Wanchai et al. (2024)
58	PP987911.1	<i>L. triploida</i>	<i>L. triploida</i>	Malaysia	–	LSUHC 8713	Wanchai et al. (2024)

59	PP987910.1	<i>L. triploida</i>	<i>L. triploida</i>	Malaysia	–	LSUHC 8714	Wanchai et al. (2024)
60	PP987909.1	<i>L. triploida</i>	<i>L. triploida</i>	Malaysia	–	LSUHC 8715	Wanchai et al. (2024)
61	PP987908.1	<i>L. triploida</i>	<i>L. triploida</i>	Malaysia	Kedah	LSUHC 8734	Wanchai et al. (2024)
62	MN734692.1	<i>L. ocellata</i>	<i>L. ocellata</i>	Thailand	–	LOWS22	Wanchai et al. (2024)
63	MN734680.1	<i>L. ocellata</i>	<i>L. ocellata</i>	Thailand	–	LOTK14	Wanchai et al. (2024)
64	MN734667.1	<i>L. ocellata</i>	<i>L. ocellata</i>	Thailand	–	LOMW11	Wanchai et al. (2024)
65	MN734656.1	<i>L. ocellata</i>	<i>L. ocellata</i>	Thailand	–	LOMP10	Wanchai et al. (2024)
66	MN734647.1	<i>L. ocellata</i>	<i>L. ocellata</i>	Thailand	–	LOMN08	Wanchai et al. (2024)
67	MN734641.1	<i>L. ocellata</i>	<i>L. ocellata</i>	Thailand	–	LOMC11	Wanchai et al. (2024)
68	MN734631.1	<i>L. ocellata</i>	<i>L. ocellata</i>	Thailand	–	LOKY13	Wanchai et al. (2024)
69	MN734619.1	<i>L. ocellata</i>	<i>L. ocellata</i>	Thailand	–	LODK08	Wanchai et al. (2024)
70	MN734611.1	<i>L. ocellata</i>	<i>L. ocellata</i>	Thailand	–	LOCS13	Wanchai et al. (2024)
71	MN734599.1	<i>L. ocellata</i>	<i>L. ocellata</i>	Thailand	–	LOCM08	Wanchai et al. (2024)
72	MN105117.1	<i>L. peguensis</i>	<i>L. peguensis</i>	Thailand	Mae Hong Son	THNHM 28603	Promnun et al. (2021)
73	MN105116.1	<i>L. peguensis</i>	<i>L. peguensis</i>	Thailand	Mae Hong Son	THNHM 28602	Promnun et al. (2021)
74	KU187612.1	<i>Ctenophorus slateri</i>	<i>Ctenophorus slateri</i>	Australia	Northern Territory	NMVD74284	Melville et al. (2016)
75	KU187611.1	<i>Ctenophorus slateri</i>	<i>Ctenophorus slateri</i>	Australia	Northern Territory	NMVD74268	Melville et al. (2016)
76	KC875610.1	<i>Calotes versicolor</i>	<i>Calotes versicolor</i>	China	Hainan	CIB 095687	Huang et al. (2013)