

Supplementary Materials for

Herpetological Phylogeographic Analyses Support a Miocene Focal Point of Himalayan Uplift and Biological Diversification

Wei Xu^{†,‡}, Wen-Jie Dong^{†,‡}, Ting-Ting Fu^{†,‡}, Wei Gao^{†,‡}, Chen-Qi Lu^{†,‡}, Fang Yan[†], Yun-He Wu^{†,‡}, Ke Jiang[†], Jie-Qiong Jin[†], Hong-Man Chen[†], Ya-Ping Zhang^{†,||}, David M. Hillis^{§,*}, and Jing Che^{†,||,*}

Correspondence to: chej@mail.kiz.ac.cn; dhillis@austin.utexas.edu.

This PDF file includes:

Methods and Materials

Supplementary Text

Fig. S1 to S2

Table S1 to S5

Data S1 to S8

References

Methods and Materials

Data collection

The complete dataset for phylogenetic analyses is presented in **DataS5**. Of the included 1,628 species, 184 are distributed in the Himalaya, and 127 are endemic (limited to the Himalaya). Those fourteen families met the following criteria, as suggested in Xing and Ree [1]: (1) the clade contains substantial numbers of species distributed in the Himalaya; (2) sufficient molecular data were available or obtainable to infer a phylogeny that covered majority taxonomic diversity and geographic range of this clade; and (3) sufficient fossil data were available for molecular clock calibration of the clade's diversification. Thirty-five well-resolved clades with Himalaya species of those families are selected for biogeographic analysis (**Fig. 3**). We integrated closely related clades of the same family into a combined family-level tree, instead of building trees for each subgroup separately. This maximized use of shared fossil calibrations among genera; otherwise, further splitting of the trees would have reduced available fossil calibration points and thus increased the uncertainty of age estimates.

The DNA dataset for phylogenetic analysis included 29 loci with 8,156 sequences (**DataS5**). We collected 391 new sequences from 121 species, and downloaded the remaining sequences from GenBank (through August 2019). Total genomic DNA was extracted using a standard phenol/chloroform method [2] for the 121 species newly sampled in this study. Amplification consisted of an initial denaturation step at 95°C for 5 min, followed by 35 cycles of denaturation at 95°C for 1 min, annealing for 1 min, followed by extension at 72°C for 1 min. The final extension was set at 72°C for 10 min. PCR products were purified with a Gel Extraction Mini Kit (Watson BioTechnologies, Shanghai, China), and then sequenced in both directions with BigDye Terminator Cycle Sequencing Kit (v.2.0, Applied Biosystems, Foster City, CA, USA) using an ABI PRISM 3730 DNA Analyzer (Applied Biosystems). Primers and conditions for PCR amplification are listed in **Table S3**.

Our study was approved by the ethics committees of the Kunming Institute of Zoology, Chinese Academy of Sciences, China (permission for this study is BBCJ-2014-001).

Time calibrated phylogeny

All sequences were aligned using ClustalW with default settings as implemented in MEGA X [3]. Multiple loci were concatenated using SequenceMatrix [4]. The assembled supermatrices for

each family were used to construct phylogenetic trees under the maximum likelihood (ML) criterion, using IQTREE [5] in the IQTREE web server [6]. We used ModelFinder [7] to determine the best substitution model for each gene partition (**Table S4**). We calculated bootstrap proportions and other branch-support metrics (all based on 1,000 replicates) using the UFBoot [8] algorithm in IQTREE 1.5.5, UFBoot2 [9] in IQTREE 1.6.1, aLRT [10], and its nonparametric equivalent SH-aLRT [11]. The Bayesian measures of branch support reduce the bias of bootstrap support values in large datasets [12].

Fourteen time-calibrated trees were constructed using MCMCTREE [13]. The inferred IQTREE tree was used as the reference topology. We first used BASEML program (in PAML) to estimate the mean substitution rate under GTR + I substitution model, using a strict molecular clock. We assigned each tree a root age based on a published large-scale tree [14,15] or fossil records. The average estimated rates were then used to set the prior of overall substitution rate (*rgene gamma*) and rate-drift parameter (*sigma2 gamma*). We used 40 well-established fossil ages to calibrate the date of nodes (fossil details are presented in **Table S5** and graphically shown in **Data S6**). The minimum and maximum bounds of constraints were treated as soft, with a 2.5% probability that those bounds could be violated. The first 5,000,000 generations of the MCMC sample were treated as burn-in; we then then sampled every 1,000 generations for another 10,000,000 generations to create a sample of 10,000 solutions. We executed this analysis twice to check for convergence in the solution set, starting from randomly generated seeds.

Comparison between prior and posterior distributions are needed in any Bayesian analysis to determine whether signal is coming from the data *per se* or from the prior selection, especially for parameters of interest [16]. We compared time estimates of calibration nodes based on prior-only and data-informed distributions. Prior distributions were obtained with calibrations only, using no sequence data. Other parameters were the same in both analyses. All results were processed in R v4.0.1 [17] and were visualized using ggplot2 v3.3.1 [18].

Definition of biogeographic regions

We analyzed nine biogeographic regions. The Himalayan Mountain ranges region, following Boos and Kuang [19] and Ding et al. [20], is bounded to the west by Nanga Parbat, to the north by the northernmost bend of Indus river, and to the east by Namcha Barwa and the great bend of the Yarlung Tsangpo River. It is bordered on the northwest by the Karakoram and the Hindu

Kush ranges, and to the north the Himalaya are separated from the Tibetan Plateau by a 50–60 km wide tectonic valley called the Indus–Tsangpo Suture. To the south the arc of the Himalaya is ringed by the low Indo-Gangetic Plain. We included species distributed in northeast India, northern Myanmar and Ganges Delta in the Himalayan Mountain region because they are adjacent and have a similar mountain environment. Importantly, we strictly differentiate the Himalaya from high Tibetan Plateau due to their clear geological distinction in the spirit of Spicer [21]. The other regions we included were temperate/boreal East Asia (the eastern boreal part of Russia and temperate regions of eastern Asia, including Japan and Taiwan); Central-West Asia (including Pakistan, Uzbekistan, Tajikistan, and the Arabian Peninsula countries); Southeast Asia (including tropical regions of China, Malesia, and Papuaasia); Australasia (Australia, New Zealand, and the southwestern Pacific); South Asia (south of the Himalaya, including Sri Lanka); Africa; Europe; and the Americas (North America, Central America, and South America).

Ancestral range reconstruction

We reconstructed ancestral ranges as follows. First, to infer the differences between the dynamics of *in situ* diversification versus dispersal-associated diversification, we classified species into either Himalayan (state "A") or non-Himalayan (state "B") regions, based on their current known distributions (species that occurs both inside and outside of the Himalayan region were coded "AB"). We then fit six models (DEC, DEC+j, DIVALIKE, DIVALIKE+j, BAYAREALIKE, BAYAREALIKE+j) implemented in BioGeoBEARS [22] using *model-test* function [23] to test which models should be the best based on AICc weight. The best model was applied to infer the probabilities for the ancestral range of each node in the tree as being Himalayan or non-Himalayan. We also classified species into the nine regions to provide additional information about dispersal between the Himalaya and other adjacent regions.

Phylogeographic analysis: Local diversification and dispersal

Biotic assembly for a given region is the process of species accumulation, which is composed of both colonization via regional dispersal as well as *in situ* lineage diversification. Although extinction may affect overall diversification rate, observed *in situ* lineage diversification is all that can be estimated from extant taxa.

Using the ancestral range analysis, we categorized several biogeographic events on the phylogenetic tree (**Fig. S1**)[24]. We identified “*in situ* diversification events” whenever the ancestral node for a group of descendant Himalayan species was reconstructed in the Himalaya; the date of that ancestral node was taken as the date of the *in situ* diversification events. In contrast, we identified dispersal between areas if the range of a descendant node differed from the reconstructed range of the ancestral node. More specifically, a biogeographic event was identified as “dispersal into the Himalaya” in cases in which the ancestral range was reconstructed as other than the Himalaya, whereas the descendant node was in the Himalaya. In the case of biogeographic events associated with dispersal, the date of the dispersal event was recorded as the date of the older (ancestral) node. Some events could not be assigned unambiguously to either *in situ* diversification events or dispersal events because of ambiguity in the ancestral node assignments. In all cases, we refer to a node as being either a tip (that is, extant species) or an internal node (ancestral species). Some diversification events from clades outside our selected clades, but possibly related to the Himalaya, are separately defined as “ambiguous events” (see details in **Supplementary Text**).

We estimated the maximal number of observed dispersal events per Ma (MDisE) [25] or *in situ* diversification events per Ma (MDivE, extension of MDE) to infer general patterns of *in situ* diversification and biotic interchange. These MDE rates were calculated by summing potential dispersal or *in situ* diversification events over all data sets through time using time slices of one million years (based on the divergence time credibility intervals given in **Table S1** and **Table S2**). All dispersal and *in situ* diversification events (based on different nodes in the tree) were treated as independent. In addition to estimating events from the MCMCTREE results, we also conducted an MDE analysis based on results from BEAST to consider method sensitivity (see more details in **Supplementary Text**).

We estimated inflection points in the MDE curves from 67 Ma to the present to characterize major changes in diversification rates over time (using the *e.divisive* function of R-package ‘ecp’) [26, 27, 28]. We resampled 1,000 bootstrap pseudoreplicates from the raw credibility intervals (used for inferring the MDisE and MDivE rates above) using the *sample* function R 3.3.2 (**Supplementary Text**). We repeated the calculations to find the MDE origination, peaks, and inflection points for each bootstrap pseudosample, and used these samples to calculate

confidence intervals for the MDE curve attributes presented in **Table 2**(details see **Supplementary Text**).

Bootstrap analyses

The inflection points were identified using the *e.divisive* function in R-package *ecp* with the following parameters: maximum number of random permutations = 1,000, significance level = 0.001, k=2 (maximum possible inflection points are set to 2, corresponding with possible inflection points in those geological models), minimum number of observations between changes = 10 Ma. We estimated the origination, peak, and inflection points from each bootstrap pseudosample and repeated this calculation for 1,000 bootstrap pseudoreplicates (**Data S7**). We sorted these samples ascending and calculate the 99% confidence intervals of MDE curve attributes.

Testing the effect of “potential Himalayan species”

Some species are excluded from our analysis due to their questionable distribution in the Himalaya. Most of these are widespread species, with no molecular data published from Himalayan samples since their original description. We consider their presence in the Himalaya uncertain. Therefore, we considered them as non-Himalayan species in our biogeographic analysis, but labeled them “potential Himalayan species” (details see **Data S8**). It is possible that some of them might be confirmed as true Himalayan species in the future. Therefore, to examine the effects of their exclusion in our analyses, we used molecular data from regions outside the Himalaya and integrated these species into our MDE analysis to check if these exclusions changed any of our results.

Supplemental Text

Defining “ambiguous events” and effect

We selected well-resolved clades for analysis. Those clades with Himalayan species but poorly-resolved or with too few species (fewer than three species) were excluded (*Ophiophagus* for example, has only one species, *Ophiophagus hannah*), to minimize bias from extinction or poor sampling. Furthermore, Himalayan species in poorly-resolved clades (e.g., *Sphenomorphus*) have a highly uncertain phylogenetic position, so they were also excluded. The MDE trend of those

“ambiguous events” (**Fig. 4**) shows that they occupy only small fraction of all events. Generally, those events are likely dispersal events if those clades are truly monotypic taxa. Adding these events would lead to a similar trend but a somewhat earlier increased dispersal MDE curve.

Effect of “potential Himalayan species”

When “potential Himalayan species” were included in the analysis, the trends remain unchanged (**Fig. S2a**). The origination, peak, and time period of rapid increase were all unchanged. The integration of those species only changed the peak value of dispersal, which made it almost equivalent in scale with *in situ* diversification (**Fig. S2a**).

Repeat validation using BEAST

To test the robustness of the divergence time estimation, we added BEAST v 1.10.4 [29]. We used PartitionFinder2 [30] to find the best substitution model for each gene partition under BIC. The best-fit partitioning schemes determined by PartitionFinder2 was applied to the BEAST. We used the same calibration of MCMCTREE. BEAST analyses were run for 100 million generations, with samples taken every 10,000 generations under an uncorrelated lognormal relaxed clock and a Yule tree prior. Stationarity was assessed using TRACER 1.7.0 [31] with ESS values > 200 taken as evidence for convergence. Maximum clade credibility trees were obtained using TREEANNOTATOR 2.4.1 [32] applying a burn-in of 25%.

Biogeographic events detected from BEAST trees are generally similar to those obtained with MCMCTREE, including 133 *in situ* diversification events (mean age with 95% confidence interval: 16.15 Ma [21.90 Ma – 11.17 Ma]), 88 dispersal events (mean age with 95% confidence interval: 23.28 Ma [32.37 Ma – 16.12 Ma]), and 12 ambiguous events (mean age with 95% confidence interval: 30.29 Ma [42.17 Ma – 20.61 Ma]). A few questionable events are excluded due to their large 95% confidence intervals (some are more than 50 Ma). The MDE trend is also similar to the results with MCMCTREE (**Fig. 4**)

█ Himalayan *in situ* diversification
█ Dispersal into the Himalaya
█ Diversification unrelated to the Himalaya
 A: The Himalaya
 B: Regions outside the Himalaya

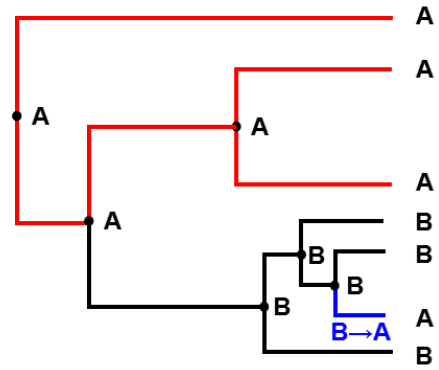


Fig. S1. Identification of *in situ* diversification events and dispersal events. An example phylogenetic tree is shown with the ancestral areas depicted for each node. A: the Himalaya; B: non-Himalayan regions. Red branches represent *in situ* diversification events, blue branches represent dispersal events, and black branches were not related to Himalayan diversification.

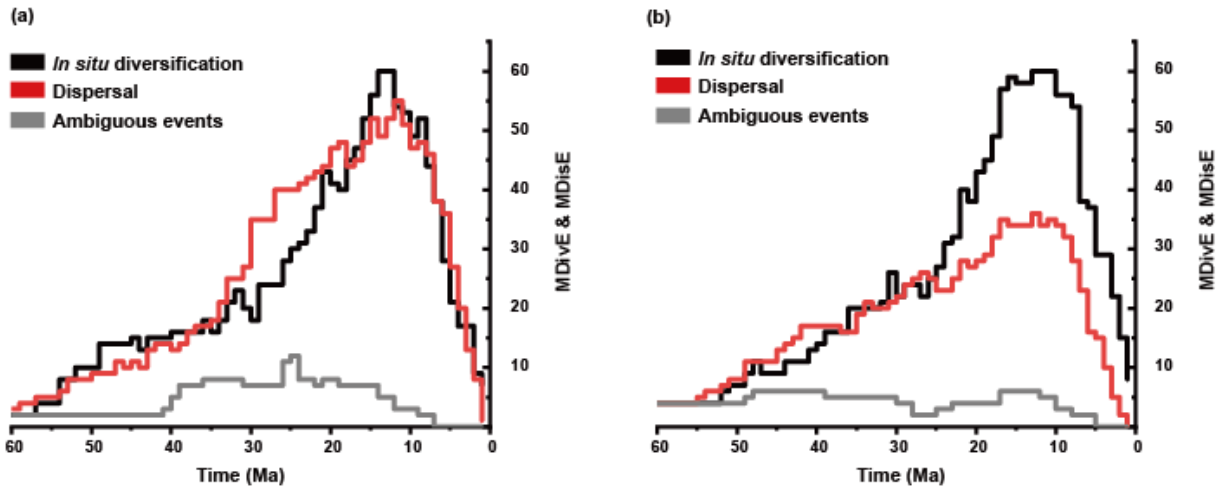


Fig. S2. (a): The rates of *in situ* diversification and dispersal of the Himalayan herpetofauna through time after adding those “potential Himalayan species.” MDivE = maximal number of observed *in situ* diversification events per Ma. MDisE = maximal number of observed dispersal events per Ma. (b): The rates of *in situ* diversification and dispersal of the Himalayan herpetofauna through time from BEAST. MDivE = maximal number of observed *in situ* diversification events per Ma. MDisE = maximal number of observed dispersal events per Ma.

Table S1.

Inferred *in situ* diversification events and dispersal events related to the Himalaya summarized from **Data S3**. Respective clade, median, upper and lower bounds of the 95% intervals for the age.

Clades	Median (Myr)	Upper (Myr)	Lower (Myr)	Events
Gekkonidae	9.11	12.86	6.04	<i>In situ</i> diversification
Gekkonidae	9.11	12.86	6.04	<i>In situ</i> diversification
Gekkonidae	20.26	25.86	15.81	<i>In situ</i> diversification
Gekkonidae	20.26	25.86	15.81	<i>In situ</i> diversification
Gekkonidae	23.39	29.38	18.91	Dispersal
Gekkonidae	25.58	31.08	20.48	<i>In situ</i> diversification
Gekkonidae	25.58	31.08	20.48	<i>In situ</i> diversification
Gekkonidae	30.01	35.82	24.58	<i>In situ</i> diversification
Gekkonidae	30.01	35.82	24.58	<i>In situ</i> diversification
Gekkonidae	31.49	37.28	26.08	<i>In situ</i> diversification
Gekkonidae	31.49	37.28	26.08	<i>In situ</i> diversification
Gekkonidae	22.87	28.25	18.07	<i>In situ</i> diversification
Gekkonidae	22.87	28.25	18.07	<i>In situ</i> diversification
Gekkonidae	18.94	23.8	14.65	<i>In situ</i> diversification
Gekkonidae	18.94	23.8	14.65	<i>In situ</i> diversification
Gekkonidae	9.18	14	5.34	<i>In situ</i> diversification
Gekkonidae	16.19	20.9	12.08	<i>In situ</i> diversification
Gekkonidae	16.19	20.9	12.08	<i>In situ</i> diversification
Gekkonidae	6.2	10.89	2.71	<i>In situ</i> diversification
Gekkonidae	6.2	10.89	2.71	<i>In situ</i> diversification
Gekkonidae	33.61	39.63	27.83	<i>In situ</i> diversification
Gekkonidae	36.49	42.83	30.42	<i>In situ</i> diversification
Gekkonidae	36.49	42.83	30.42	<i>In situ</i> diversification
Gekkonidae	3.64	5.93	2.02	<i>In situ</i> diversification
Gekkonidae	3.64	5.93	2.02	<i>In situ</i> diversification
Gekkonidae	41.81	48.53	35.29	<i>In situ</i> diversification
Gekkonidae	41.81	48.53	35.29	<i>In situ</i> diversification
Gekkonidae	37.76	44.67	31.11	<i>In situ</i> diversification
Gekkonidae	26.05	32.91	19.55	<i>In situ</i> diversification
Gekkonidae	17.13	23.38	11.83	<i>In situ</i> diversification
Gekkonidae	44.87	53.52	38.96	<i>In situ</i> diversification
Gekkonidae	44.87	53.52	38.96	<i>In situ</i> diversification
Gekkonidae	55.41	66.68	44.65	<i>In situ</i> diversification
Gekkonidae	55.41	66.68	44.65	<i>In situ</i> diversification

Gekkonidae	23.31	32.9	15.45	<i>In situ</i> diversification
Gekkonidae	23.31	32.9	15.45	<i>In situ</i> diversification
Gekkonidae	21.56	28.31	16.09	<i>In situ</i> diversification
Gekkonidae	21.56	28.31	16.09	<i>In situ</i> diversification
Gekkonidae	17.67	24.34	12.25	<i>In situ</i> diversification
Gekkonidae	17.67	24.34	12.25	<i>In situ</i> diversification
Gekkonidae	18.35	25.04	12.7	<i>In situ</i> diversification
Gekkonidae	18.35	25.04	12.7	<i>In situ</i> diversification
Gekkonidae	23.65	29.72	18.08	Dispersal
Gekkonidae	15.42	22.4	9.49	Dispersal
Gekkonidae	35.27	42.79	28.2	Dispersal
Gekkonidae	14.04	21.89	7.8	Dispersal
Gekkonidae	32.26	40.69	24.52	Ambiguous events
Gekkonidae	49.54	60.03	40.56	Ambiguous events
Gekkonidae	55.08	65.99	45.65	Ambiguous events
Gekkonidae	14.98	20.55	10.19	Dispersal
Dicroglossidae	11.19	16.66	6.74	Dispersal
Dicroglossidae	19.4	27.58	11.79	Dispersal
Dicroglossidae	12.09	16.54	8.53	Dispersal
Dicroglossidae	9.47	14.06	5.59	Dispersal
Dicroglossidae	9.47	14.06	5.59	Dispersal
Dicroglossidae	24.22	30.22	18.78	Dispersal
Dicroglossidae	0.45	1.12	0.08	<i>In situ</i> diversification
Dicroglossidae	0.45	1.12	0.08	<i>In situ</i> diversification
Dicroglossidae	3.4	5.25	2.03	Dispersal
Dicroglossidae	3.4	5.25	2.03	<i>In situ</i> diversification
Dicroglossidae	6.36	8.63	4.48	<i>In situ</i> diversification
Dicroglossidae	6.36	8.63	4.48	<i>In situ</i> diversification
Dicroglossidae	4.55	6.77	2.79	<i>In situ</i> diversification
Dicroglossidae	4.55	6.77	2.79	<i>In situ</i> diversification
Dicroglossidae	8.54	11.1	6.34	<i>In situ</i> diversification
Dicroglossidae	8.54	11.1	6.34	<i>In situ</i> diversification
Dicroglossidae	1.67	3.27	0.62	<i>In situ</i> diversification
Dicroglossidae	4.51	6.97	2.54	<i>In situ</i> diversification
Dicroglossidae	14.35	17.57	11.63	Dispersal
Dicroglossidae	45.83	53.34	37.33	Dispersal
Bufo	13.38	20.38	7.56	Dispersal
Bufo	6.71	10.42	3.9	Dispersal
Bufo	14.25	18.62	10.59	Dispersal
Bufo	14.85	19.77	10.27	Dispersal
Bufo	16.69	24.28	9.23	Ambiguous events

Bufonidae	1.74	3.6	0.65	<i>In situ</i> diversification
Bufonidae	1.74	3.6	0.65	<i>In situ</i> diversification
Bufonidae	7.53	12.06	4.32	Dispersal
Bufonidae	27.82	35.18	19.97	Ambiguous events
Pareidae	51.32	66.28	37.72	Dispersal
Megophryidae	25.73	29.68	21.2	Dispersal
Megophryidae	12.95	21.07	6.09	<i>In situ</i> diversification
Megophryidae	12.95	21.07	6.09	<i>In situ</i> diversification
Megophryidae	8.52	12.57	5.25	Dispersal
Megophryidae	10.26	14.45	6.69	<i>In situ</i> diversification
Megophryidae	11.63	15.78	8.06	<i>In situ</i> diversification
Megophryidae	11.63	15.78	8.06	<i>In situ</i> diversification
Megophryidae	8.63	13.31	4.23	<i>In situ</i> diversification
Megophryidae	13.31	17.69	9.56	<i>In situ</i> diversification
Megophryidae	13.31	17.69	9.56	<i>In situ</i> diversification
Megophryidae	11.98	16.58	8.01	<i>In situ</i> diversification
Megophryidae	11.98	16.58	8.01	<i>In situ</i> diversification
Megophryidae	9.86	14.34	5.98	<i>In situ</i> diversification
Megophryidae	9.86	14.34	5.98	<i>In situ</i> diversification
Megophryidae	4.82	8.97	2	<i>In situ</i> diversification
Megophryidae	4.82	8.97	2	<i>In situ</i> diversification
Megophryidae	16.16	20.85	11.69	<i>In situ</i> diversification
Megophryidae	16.16	20.85	11.69	<i>In situ</i> diversification
Megophryidae	20.48	24.77	16.15	<i>In situ</i> diversification
Megophryidae	20.48	24.77	16.15	<i>In situ</i> diversification
Megophryidae	16.48	21.24	11.93	<i>In situ</i> diversification
Megophryidae	16.48	21.24	11.93	<i>In situ</i> diversification
Megophryidae	12.9	17.65	8.64	<i>In situ</i> diversification
Megophryidae	12.9	17.65	8.64	<i>In situ</i> diversification
Megophryidae	10.12	15.06	5.71	<i>In situ</i> diversification
Megophryidae	10.12	15.06	5.71	<i>In situ</i> diversification
Megophryidae	10.59	15.52	6.15	<i>In situ</i> diversification
Megophryidae	10.59	15.52	6.15	<i>In situ</i> diversification
Megophryidae	22.6	26.81	18.17	<i>In situ</i> diversification
Megophryidae	25.85	29.62	21.55	Dispersal
Megophryidae	5.14	8.22	2.96	Dispersal
Megophryidae	11.17	15.84	7.5	<i>In situ</i> diversification
Megophryidae	12.74	17.45	9.03	<i>In situ</i> diversification
Megophryidae	12.74	17.45	9.03	<i>In situ</i> diversification
Megophryidae	11.14	15.99	7.78	<i>In situ</i> diversification
Megophryidae	11.14	15.99	7.78	<i>In situ</i> diversification

Megophryidae	10.43	14.91	6.81	<i>In situ</i> diversification
Megophryidae	10.43	14.91	6.81	<i>In situ</i> diversification
Megophryidae	7.47	11.54	4.29	<i>In situ</i> diversification
Megophryidae	7.47	11.54	4.29	<i>In situ</i> diversification
Megophryidae	5.07	8.72	2.43	<i>In situ</i> diversification
Megophryidae	14.27	19.49	10.18	Dispersal
Megophryidae	19.77	26.03	14.11	Dispersal
Megophryidae	18.12	24.42	11.92	Dispersal
Viperidae	3.73	6.16	2	Dispersal
Viperidae	15.37	20.32	10.91	Dispersal
Viperidae	24.86	29.43	20.49	Dispersal
Viperidae	9.75	12.41	7.49	Dispersal
Viperidae	18.51	22.32	15.08	Dispersal
Viperidae	22.68	26.94	18.74	Dispersal
Agamidae	13.88	22.51	7.76	<i>In situ</i> diversification
Agamidae	13.88	22.51	7.76	<i>In situ</i> diversification
Agamidae	51.25	59.79	40.79	Dispersal
Agamidae	34.2	42.93	25.99	Dispersal
Agamidae	12.87	17.36	9.18	Dispersal
Agamidae	31.86	38.17	26.06	Dispersal
Agamidae	54.67	62.68	46.62	Dispersal
Agamidae	43.83	56.1	31.97	<i>In situ</i> diversification
Agamidae	43.83	56.1	31.97	<i>In situ</i> diversification
Agamidae	37.67	51.35	25.64	<i>In situ</i> diversification
Agamidae	37.67	51.35	25.64	<i>In situ</i> diversification
Agamidae	40.63	53.48	29	<i>In situ</i> diversification
Agamidae	40.63	53.48	29	<i>In situ</i> diversification
Agamidae	34.77	48.74	23.56	<i>In situ</i> diversification
Agamidae	34.77	48.74	23.56	<i>In situ</i> diversification
Agamidae	38.66	52.33	26.49	Dispersal
Agamidae	9.04	12.97	5.9	Dispersal
Agamidae	22.01	33.17	12.63	<i>In situ</i> diversification
Agamidae	22.01	33.17	12.63	<i>In situ</i> diversification
Anguidae	27.97	37.27	19.92	Dispersal
Scincidae	38.51	44.75	31.65	Ambiguous events
Scincidae	32.27	39.52	24.87	Ambiguous events
Scincidae	32.27	39.52	24.87	Ambiguous events
Scincidae	51.42	56.62	44.32	Dispersal
Scincidae	19.81	26.46	13.57	Dispersal
Scincidae	30.49	36.42	24.97	Dispersal
Scincidae	26.62	33.98	18.79	Dispersal

Scincidae	30.49	38.71	21.96	Ambiguous events
Scincidae	25.32	32.66	18.61	Dispersal
Rhacophoridae	5.48	9.36	2.64	Dispersal
Rhacophoridae	41.45	46.72	35.66	Dispersal
Rhacophoridae	17.99	27.88	10.57	<i>In situ</i> diversification
Rhacophoridae	17.99	27.88	10.57	<i>In situ</i> diversification
Rhacophoridae	6.61	9.59	4	Dispersal
Rhacophoridae	8.34	11.69	4.87	Dispersal
Rhacophoridae	12.99	17.29	8.8	Dispersal
Rhacophoridae	9.21	14.69	5.01	Dispersal
Rhacophoridae	23.34	29.64	17.42	Dispersal
Rhacophoridae	5.02	7.27	3.25	Dispersal
Rhacophoridae	5.02	7.27	3.25	Dispersal
Rhacophoridae	14.4	19.98	9.14	Dispersal
Rhacophoridae	26.97	33.33	20.29	Dispersal
Rhacophoridae	43.42	49.03	36.74	Dispersal
Rhacophoridae	9.16	13.39	5.29	<i>In situ</i> diversification
Rhacophoridae	9.16	13.39	5.29	<i>In situ</i> diversification
Rhacophoridae	11.98	15.9	8.33	Dispersal
Rhacophoridae	15.79	21.03	10.33	Dispersal
Ranidae	14.49	20.45	9.08	Dispersal
Ranidae	27.57	32.88	21.7	Dispersal
Ranidae	5.46	10.92	1.8	Dispersal
Ranidae	36.76	41.27	32.36	Dispersal
Ranidae	7.66	14.04	2.74	<i>In situ</i> diversification
Ranidae	12.05	17.64	7.16	<i>In situ</i> diversification
Ranidae	12.05	17.64	7.16	<i>In situ</i> diversification
Ranidae	7.1	10.73	4.25	<i>In situ</i> diversification
Ranidae	7.1	10.73	4.25	<i>In situ</i> diversification
Ranidae	9.44	13.42	6.33	<i>In situ</i> diversification
Ranidae	9.44	13.42	6.33	<i>In situ</i> diversification
Ranidae	10.64	14.78	7.28	<i>In situ</i> diversification
Ranidae	10.64	14.78	7.28	<i>In situ</i> diversification
Ranidae	21.42	26.82	16.62	Dispersal
Ranidae	14.78	21.79	8.7	Dispersal
Ceratobatrachidae	19.9	28.49	12.83	<i>In situ</i> diversification
Ceratobatrachidae	19.9	28.49	12.83	<i>In situ</i> diversification
Ceratobatrachidae	13.79	20.82	8.12	<i>In situ</i> diversification
Ceratobatrachidae	13.79	20.82	8.12	<i>In situ</i> diversification
Ceratobatrachidae	3.26	8.19	0.5	<i>In situ</i> diversification
Ceratobatrachidae	3.26	8.19	0.5	<i>In situ</i> diversification

Elapidae	17.97	23.62	13.04	Dispersal
Elapidae	12.76	18.54	7.92	Dispersal
Elapidae	9.81	19.88	3.47	Dispersal
Elapidae	11.47	16.7	7.52	Dispersal
Elapidae	31.65	39.12	22.2	Ambiguous events
Colubridae	7.91	12.59	4.38	Dispersal
Colubridae	11.32	15.26	8.01	Dispersal
Colubridae	19.02	24.32	14.01	Dispersal
Colubridae	15.81	20.21	11.82	Dispersal
Colubridae	10.82	16.57	6.65	Dispersal
Colubridae	5.84	11.07	2.49	Dispersal
Colubridae	21.18	28.78	13.82	Dispersal
Colubridae	31.08	37.01	25.39	Dispersal
Colubridae	31.77	38.51	24.19	Ambiguous events
Colubridae	13.91	19.65	8.78	Dispersal
Colubridae	4.17	7.05	2.26	Dispersal
Colubridae	9.29	14.7	5.29	Dispersal
Colubridae	5.64	8.69	3.32	Dispersal
Colubridae	17.98	22.69	13.59	Dispersal
Colubridae	31.92	37.42	26.76	Dispersal
Colubridae	19.44	25.24	14.04	Ambiguous events
Colubridae	19.44	25.24	14.04	Ambiguous events
Colubridae	38.81	44.8	32.94	Dispersal
Colubridae	15.93	22.27	10.71	<i>In situ</i> diversification
Colubridae	15.93	22.27	10.71	<i>In situ</i> diversification
Colubridae	19.01	25.49	13.51	<i>In situ</i> diversification
Colubridae	19.01	25.49	13.51	<i>In situ</i> diversification
Colubridae	13.33	20.07	7.54	Ambiguous events
Colubridae	13.33	20.07	7.54	Ambiguous events
Colubridae	18.7	25.53	12.51	Ambiguous events
Colubridae	18.7	25.53	12.51	Ambiguous events
Colubridae	10.59	16.55	6.3	Dispersal

Table S2.

Inferred dispersal events between the Himalaya and surrounding regions summarized from **Data S4**. Respective clade, median, upper and lower bounds of the 95% intervals for the age of events in million years before present (Ma), as used for the calculation of the maximal number of dispersal (MDisE) per Ma. The arrows indicate dispersal direction.

Clades	Median (Myr)	Upper (Myr)	Lower (Myr)	Events
Gekkonidae	15.42	22.4	9.49	South Asia → The Himalaya
Gekkonidae	14.98	20.55	10.19	Southeast Asia → The Himalaya
Dicroglossidae	19.4	27.58	11.79	South Asia → The Himalaya
Dicroglossidae	6.37	9.83	3.82	South Asia → The Himalaya
Dicroglossidae	18.11	27.84	10.43	South Asia → The Himalaya
Bufoidae	13.38	20.38	7.56	Southeast Asia → The Himalaya
Bufoidae	16.69	24.28	9.23	South Asia → The Himalaya
Bufoidae	7.53	12.06	4.32	Europe → The Himalaya
Pareidae	51.32	66.28	37.72	Southeast Asia → The Himalaya
Megophryidae	25.73	29.68	21.2	Southeast Asia → The Himalaya
Megophryidae	22.6	26.81	18.17	Southeast Asia → The Himalaya
Megophryidae	1.12	2.56	0.35	East Asia → The Himalaya
Megophryidae	29.59	33.6	24.8	Southeast Asia → The Himalaya
Megophryidae	18.12	24.42	11.92	Southeast Asia → The Himalaya
Viperidae	15.37	20.32	10.91	Southeast Asia → The Himalaya
Viperidae	12.94	17.62	8.73	Southeast Asia → The Himalaya
Viperidae	17.27	21.87	13.07	Southeast Asia → The Himalaya
Viperidae	9.75	12.41	7.49	Southeast Asia → The Himalaya
Viperidae	12.65	16.81	9.1	Southeast Asia → The Himalaya
Viperidae	22.68	26.94	18.74	Southeast Asia → The Himalaya
Agamidae	51.25	59.79	40.79	South Asia → The Himalaya
Agamidae	16.34	23.39	10.3	Southeast Asia → The Himalaya
Agamidae	12.87	17.36	9.18	South Asia → The Himalaya
Agamidae	54.67	62.68	46.62	Southeast Asia → The Himalaya
Agamidae	38.66	52.33	26.49	Southeast Asia → The Himalaya
Agamidae	9.04	12.97	5.9	East Asia → The Himalaya
Agamidae	55.25	64.82	43.6	Central-West Asia → The Himalaya
Anguillidae	27.97	37.27	19.92	Southeast Asia → The Himalaya
Scincidae	40.35	48.48	31.3	Central-West Asia → The Himalaya
Scincidae	19.81	26.46	13.57	South Asia → The Himalaya

Scincidae	30.49	36.42	24.97	Southeast Asia → The Himalaya
Scincidae	26.62	33.98	18.79	Southeast Asia → The Himalaya
Scincidae	25.32	32.66	18.61	Southeast Asia → The Himalaya
Rhacophoridae	5.48	9.36	2.64	Southeast Asia → The Himalaya
Rhacophoridae	41.45	46.72	35.66	Southeast Asia → The Himalaya
Rhacophoridae	12.99	17.29	8.8	Southeast Asia → The Himalaya
Rhacophoridae	9.21	14.69	5.01	Southeast Asia → The Himalaya
Rhacophoridae	23.34	29.64	17.42	Southeast Asia → The Himalaya
Rhacophoridae	2.89	5.34	1.05	Southeast Asia → The Himalaya
Rhacophoridae	5.02	7.27	3.25	Southeast Asia → The Himalaya
Rhacophoridae	14.4	19.98	9.14	Southeast Asia → The Himalaya
Rhacophoridae	43.42	49.03	36.74	Southeast Asia → The Himalaya
Rhacophoridae	11.98	15.9	8.33	Southeast Asia → The Himalaya
Rhacophoridae	15.79	21.03	10.33	Southeast Asia → The Himalaya
Ranidae	27.57	32.88	21.7	Southeast Asia → The Himalaya
Ranidae	36.76	41.27	32.36	Southeast Asia → The Himalaya
Ranidae	7.51	11.42	4.01	Southeast Asia → The Himalaya
Ranidae	33.4	38.58	28.32	Southeast Asia → The Himalaya
Ranidae	21.42	26.82	16.62	Southeast Asia → The Himalaya
Elapidae	12.78	18.31	8.32	Southeast Asia → The Himalaya
Elapidae	9.81	19.88	3.47	Southeast Asia → The Himalaya
Colubridae	7.91	12.59	4.38	Southeast Asia → The Himalaya
Colubridae	9.78	14.49	5.8	Southeast Asia → The Himalaya
Colubridae	19.02	24.32	14.01	Southeast Asia → The Himalaya
Colubridae	14.19	18.78	9.99	Southeast Asia → The Himalaya
Colubridae	5.54	9.57	2.71	Southeast Asia → The Himalaya
Colubridae	4.17	7.05	2.26	Southeast Asia → The Himalaya
Colubridae	9.29	14.7	5.29	Southeast Asia → The Himalaya
Colubridae	5.64	8.69	3.32	Southeast Asia → The Himalaya
Colubridae	17.98	22.69	13.59	Southeast Asia → The Himalaya
Colubridae	23.49	28.77	18.64	Southeast Asia → The Himalaya
Colubridae	38.81	44.8	32.94	Southeast Asia → The Himalaya

Table S3.

PCR details used in this study.

Clades	Gene	Primer name	Primer sequence	Annealing temperature	Source	
<i>Amolops</i>	16S rRNA	16SAR	CGCCTGTTTAYC	55°C	[33]	
		16SBR	AAAAACAT			
			CCGGTYTGAACT			
	ND2	Met-LND2		CAGATCAYGT	49°C	[34]
				CAATGTTGGTTA		
				AAATCCTTCC		
	Tyr	Trp-HND2		AGGCTTTGAAGG	50°C	[34]
				CCTTTGGTC		
				TGCTGGGCRTCT		
	Tyr	Tyr1G		CTCCARTCCCA	50°C	[35]
				AGGCCTCYTRA		
				GGAAGGAATG		
	Tyr	Tyr1B		TCCTCCGTGGGC	50°C	[35]
				ACCCARTTCCC		
				TCATCTCCCGYC		
	RAG1	Tyr1D		AYCTTCTGGAT	50°C	[35]
				CTGGTCGTCAGA		
			L-RAG1Ran			
RAG1	Tyr1E		TCTTTCAGC	50°C	[36]	
			GCAAAACGTTGA			
			H-RAG1Ran			
RAG1	Tyr1F		GAGTGATAAC	50°C	[36]	
			GGAAATTGGTGG			
			L-RAG1Ranint			
RAG1	Tyr1G		AATCCTCAG	50°C	[36]	
			ATATAGATAGAG			
			H-RAG1Ranint			
RAG1	Tyr1H		CCTGAGGC	50°C	[36]	
			CGCCTGTTTAYC			
			AAAAACAT			
<i>Feihyla</i>	16S rRNA	16SAR	CGCCTGTTTAYC	55°C	[33]	
		16SBR	AAAAACAT			
			CCGGTYTGAACT			

			CAGATCAYGT	
			CGCCTGTTTAYC	
<i>Gracixalus</i>	16S	16SAR	AAAAACAT	[33]
	rRNA		CCGGTYTGAACT	55°C
		16SBR	CAGATCAYGT	[33]
			AAACTGGGATTA	
	L2519	GATACCCCACTA		
		T	55°C	[33]
		CCGGTYTGAACT		
		16SBR	CAGATCAYGT	[33]
<i>Kurixalus</i>	12-		GCTAGACCATKA	
	16S	H3296	TGCAAAAGGTA	[33]
	rRNA		CGCCTGTTTAYC	
		16SAR	AAAAACAT	[33]
		12/16S-696F	TATARCAATAGT	
			ACCGCAAG	This study
	12/16S-1563R	CGGTTAGGATAC		
		CGCGGCCGT	This study	
		AAACTGGGATTA		
	L2519	GATACCCCACTA		
		T	55°C	[33]
		CCGGTYTGAACT		
		16SBR	CAGATCAYGT	[33]
<i>Polypedates</i>	12-		GCTAGACCATKA	
	16S	H3296	TGCAAAAGGTA	[33]
	rRNA		CGCCTGTTTAYC	
		16SAR	AAAAACAT	[33]
		12/16S-696F	TATARCAATAGT	
			ACCGCAAG	This study
	12/16S-1563R	CGGTTAGGATAC	This study	

			CGCGGCCGT		
			AAACTGGGATTA		
		L2519	GATACCCCACTA		
			T	55°C	[33]
		16SBR	CCGGTYTGAACT		
			CAGATCAYGT		[33]
<i>Theلودerma</i>	12-	H3296	GCTAGACCATKA		
	16S		TGCAAAAGGTA		[33]
	rRNA	16SAR	CGCCTGTTTAYC		
			AAAAACAT		[33]
		12/16S-696F	TATARCAATAGT		
			ACCGCAAG		This study
		12/16S-1563R	CGGTTAGGATAC		
			CGCGGCCGT		This study
		16SAR	CGCCTGTTTAYC		
	16S		AAAAACAT	55°C	[33]
<i>Raorchestes</i>	rRNA	16SBR	CCGGTYTGAACT		
			CAGATCAYGT		[33]
			TCTGGRTGAGCA		
	ND1	ND1-F	TCAAACCTCT	50°C	This study
			TATCTTTCGGGC		
		ND1-R	ACATTTCCAT		This study
		AAACTGGGATTA			
		L2519	GATACCCCACTA		
			T	55°C	[33]
<i>Rhacophorus</i>	12-	16SBR	CCGGTYTGAACT		
	16S		CAGATCAYGT		[33]
	rRNA		GCTAGACCATKA		
		H3296	TGCAAAAGGTA		[33]
		16SAR	CGCCTGTTTAYC		[33]

Nanorana

		AAAAACAT	
	12/16S-696F	TATARCAATAGT ACCGCAAG	This study
	12/16S-1563R	CGGTTAGGATAC CGCGGCCGT	This study
	L-RAG1Ran	CTGGTCGTCAGA TCTTTCAGC	[36]
	H-RAG1Ran	GCAAAACGTTGA GAGTGATAAC	[36]
RAG1	L-RAG1Ranint	GGAAATTGGTGG AATCCTCAG	[36]
	H-RAG1Ranint	ATATAGATAGAG CCTGAGGC	[36]
	CJ-L001	GACCTACTGTCA CCAA	This study
	CJ-H004	CTGGTTTGTTGA GTTCTGTGA	This study
RAG2	CJ-L002	CATACCCTTGAA AGTAACA	This study
	CJ-H003	AYCACCCATATY RCTACCAAACC	This study
Rod	Rhod1A	ACCATGAACGGA ACAGAAGYCC	[35]
	Rhod1D	GTAGCGAAGAA RCCTTCAAMGTA	[35]
	Tyr1G	TGCTGGGCRTCT CTCCARTCCCA	[35]
Tyr	Tyr1B	AGGTCCTCYTRA GGAAGGAATG	[35]
	Tyr1D	TCCTCCGTGGGC	[35]

		ACCCARTTCCC	
	Tyr1F	TCATCTCCCGYC AYCTTCTGGAT	[35]
		ACCATGAACGGA	
	Rhod1A	ACAGAAGGYCC	[35]
Rod		TAGCGAAGAARC	50°C
	Rhod1D	CTTCAAMGTA	[35]
	Tyr1G	TGCTGGGCRTCT CTCCARTCCCA	[35]
	Tyr1B	AGGTCCTCYTRA GGAAGGAATG	[35]
Tyr		TCCTCCGTGGGC	50°C
	Tyr1D	ACCCARTTCCC	[35]
<i>Liurana</i>		TCATCTCCCGYC	
	Tyr1F	AYCTTCTGGAT	[35]
		CTGGTCGTCAGA	
	L-RAG1Ran	TCTTTCAGC	[36]
		GCAAAACGTTGA	50°C
	H-RAG1Ran	GAGTGATAAC	[36]
RAG1		GGAAATTGGTGG	
	L-RAG1Ranint	AATCCTCAG	[36]
		ATATAGATAGAG	
	H-RAG1Ranint	CCTGAGGC	[36]
		GAATYGGRGGW	
		CAACCAGTAGAA	
	D- CytbA-L	GACCC	[37]
<i>Bufo</i>	loop	GTCCATTGGAGG	55°C
		TTAAGATCTACC	
	ControlB-H	A	[37]
	ND1- L3878	GCCCCATTTGAC	50°C [38]

	ND2	CTCACAGAAGG ATTTTTCGTAGT	
	H4980	TGGGTTTGRTT AAGCTTTCGGGC	[39]
	L4437	CCATACC AAGGACCTCCTT	[39]
	L4221	GATAGGGA GGTATGGGCCCA	[38]
	H4419	AAAGCTT AAACTGGGATTA	[38]
	L2519	GATACCCCACTA T	55°C [33]
	16SBR	CCGGTYTGA CAGATCAYGT	[33]
<i>Duttaphrynus</i>	12- 16S	H3296 GCTAGACCATKA TGCAAAAGGTA	[33]
	rRNA 16SAR	CGCCTGTTTAYC AAAAACAT	[33]
	12/16S-696F	TATARCAATAGT ACCGCAAG	This study
	12/16S-1563R	CGGTTAGGATAC CGCGGCCGT	This study
		TYTCWACWAAY CAYAAAGAYAT	
	COI	Chmf4 CGG	46°C [40]
<i>Scutiger</i>		ACYTCRGGRTGR	
		Chmr4 CCRAARAATCA CTTCCATCCAAC	[40]
	Cytb	L141841 ATCTCAGCATGA TGAAA	50°C [41]

			ACAAGACCAATG	
			CTTTAGTTAAGC	
		SCU5	TAC	[41]
			AAACTGGGATTA	
		L2519	GATACCCCACTA	
			T	55°C [33]
		16SBR	CCGGTYTGA ACT	
			CAGATCAYGT	[33]
	12-		GCTAGACCATKA	
	16S	H3296	TGCAAAAGGTA	[33]
<i>Leptobrachium</i>	rRNA		CGCCTGTTTAYC	
		16SAR	AAAAACAT	[33]
			TATARCAATAGT	
		12/16S-696F	ACCGCAAG	This study
			CGGTTAGGATAC	
		12/16S-1563R	CGCGGCCGT	This study
			CAGAAGCGTGCC	
		HERP691	CGAAYA	54°C This study
			CCTCTGGATTGG	
	ND1-	HERP692	GYGTTC	This study
<i>Calotes</i>	ND2		AATGCCTGAYTT	
		HERP693	ACYGGA	This study
			CTGGAAGTCAGA	
		HERP694	AGTGGG	This study
			AGGACTYGAACC	
<i>Japalura sensu lato</i>		PTF	TCYACA	54°C This study
<i>(Ptyctolaemus,</i>	ND1-		GGTTGTGKCGTC	
<i>Diploderma, Japalura</i>	ND2	PTR	ATTTTA	This study
<i>sensu stricto, Mictopholis,</i>			TAACSGGTARCT	
<i>Pseudocalotes)</i>		PTNF	GAGCCA	This study

			TTTGATTTATTCC	
		PTNR	GCCYC	This study
			AAACTGGGATTA	
	12S	L2519	GATACCCCACTA	
	rRNA		T	55°C [33]
		H3296	GCTAGACCATKA	
			TGCAAAAGGTA	[33]
			CGCCTGTTTAYC	
	16S	16SAR	AAAAACAT	[33]
	rRNA		CCGGTYTGA ACT	55°C
		16SBR	CAGATCAYGT	[33]
			GACCTGTGATMT	
<i>Naja</i>			GAAAACCA YCGT	
		L14910	TGT	[42]
	Cytb		CTTTGGTTTACA	55°C
			AGAACAATGCTT	
		H16064	TA	[42]
			CACCTATGACTA	
			CCAAAAGCTCAT	
		ND4	GTAGAAGC	[43]
	ND4		ACCACGTTTAGG	55°C
			TTCATTTTCATTA	
		LEU	C	[43]
			TYTCWACWAAY	
			CAYAAAGAYAT	
<i>Dopasia</i>	COI	Chmf4	CGG	46°C [40]
			ACYTCRGGRTGR	
		Chmr4	CCRAARAATCA	[40]
			GACCTGTGATMT	
<i>Pareas</i>	Cytb	L14910	GAAAACCA YCGT	55°C [42]

		TGT	
		CTTTGGTTTACA	
		AGAACAATGCTT	
	H16064	TA	[42]
		CATGGACTGGGA	
C-	S77	TCAGTTATG	[44]
mos		CCTTGGGTGTGA	55°C
	S78	TTTTCTCACCT	[44]
		TTTAGGGCTTTG	
	Trpr3a	AAGGC	[45]
		AGTAGYAGGYG	
	LJXND1-ND2R	RCAGGTTGT	This study
<i>Asymblepharus</i>	ND1-	AACTTCCTCCCW	54°C
	ND2 LJXND1-ND2F	CTMACCYT	This study
		ATTTTTCGTAGT	
	H4980	TGGGTTTGRTT	[39]
		AAGCTTTCGGGC	
	L4437	CCATACC	[39]
		AAGCTTTCGGGC	
	ND2 L4437 *	CCATACC	[39]
		TAGGYGGCAGGT	50°C
	SphenoR	TGTAGCCC	[46]
		CTCTTDTTTGTR	
<i>Sphenomorphus&</i>	ND2sphR	GCTTTGAAGGC	[46]
<i>Scincella</i>	12S	GAGGGTGACGG	
	rRNA 12S.H1478	GCGGTGTGT	[33]
		AAACTGGGATTA	50°C
		GATACCCCACTA	
	12S.L1091	T	[33]
	16S 16SF.SKINK	TGTTTACCAAAA	50°C [47]

	rRNA	ACATAGCCTTTA GC TAGATAGAAACC	
	16SR.SKINK	GACCTGGATT	[47]
	HERP654	AAGCAGTTGGGC CCATACC	This study
	ND2	AGRGTGCCAATG	49°C
	HERP665	TCTTTGTGRTT AAYAATGATAA	This study
<i>Altiphylax</i>	RAG1 Rag1yff	YGGGGAAAT	This study
		ACAGCCAAAGTR	56°C
	RAG1 Rag1yfr	TTGAGTAT AGATGAGCATGC	This study
	PHOF2	AGGAGTATGA	[48]
PDC	TCCACATCCACA	55°C	
		GCAAAAAACTCC	
	PHOR1	T	[48]
	HERP654	AAGCAGTTGGGC CCATACC	This study
	ND2	AGRGTGCCAATG	49°C
	HERP665	TCTTTGTGRTT AAYAATGATAA	This study
<i>Cyrtodactylus</i>	RAG1 Rag1yff	YGGGGAAAT	This study
		ACAGCCAAAGTR	56°C
	RAG1 Rag1yfr	TTGAGTAT AGATGAGCATGC	This study
	PHOF2	AGGAGTATGA	[48]
PDC	TCCACATCCACA	55°C	
		GCAAAAAACTCC	
	PHOR1	T	[48]

		AGATGAGCATGC	
	PHOF2	AGGAGTATGA	[48]
	PDC	TCCACATCCACA 55°C	
		GCAAAAAACTCC	
<i>Hemidactylus</i>	PHOR1	T	[48]
		AAYAATGATAA	
	Rag1yff	YGGGGAAAT	This study
	RAG1	56°C	
		ACAGCCAAAGTR	
	Rag1yfr	TTGAGTAT	This study
		AAGCAGTTGGGC	
	HERP654	CCATACC	This study
<i>Hemiphyllodactylus</i>	ND2	49°C	
		AGRGTGCCAATG	
	HERP665	TCTTTGTGRTT	This study
		AAACTGGGATTA	
	L2519	GATACCCCACTA	
	12S	T	55°C
	rRNA	GCTAGACCATKA	[33]
	H3296	TGCAAAAGGTA	[33]
		CGCCTGTTTAYC	
	16SAR	AAAAACAT	[33]
	16S	55°C	
	rRNA	CCGGTYTGA ACT	
<i>Ovophis</i>	16SBR	CAGATCAYGT	[33]
		GACCTGTGATMT	
		GAAAACCA YCGT	
	L14910	TGT	[42]
	Cytb	55°C	
		CTTTGGTTTACA	
		AGAACAATGCTT	
	H16064	TA	[42]
	ND4 ND4	CACCTATGACTA 55°C	[43]

			CCAAAAGCTCAT	
			GTAGAAGC	
			CATTACTTTTAC	
	Leu		TTGGATTTGCAC	
			CA	[43]
			AAACTGGGATTA	
	12S	L2519	GATACCCCACTA	
	rRNA		T	55°C [33]
		H3296	GCTAGACCATKA	
			TGCAAAAGGTA	[33]
			CGCCTGTTTAYC	
	16S	16SAR	AAAAACAT	[33]
	rRNA		CCGGTYTGA	55°C
		16SBR	CCGGTYTGA	
			CAGATCAYGT	[33]
<i>Protobothrops</i>			GACCTGTGATMT	
			GAAAACCAYCGT	
	Cytb	L14910	TGT	55°C [42]
			CTTTGGTTTACA	
			AGAACAATGCTT	
		H16064	TA	[42]
			CATGGACTGGGA	
	C-	S77	TCAGTTATG	[44]
	mos		CCTTGGGTGTGA	55°C
		S78	TTTTCTCACCT	[44]
			AAACTGGGATTA	
	12S	L2519	GATACCCCACTA	
	rRNA		T	55°C [33]
<i>Trimeresurus</i>		H3296	GCTAGACCATKA	
			TGCAAAAGGTA	[33]
	16S	16SAR	CGCCTGTTTAYC	55°C [33]

rRNA		AAAAACAT	
	16SBR	CCGGTYTGA ACT CAGATCAYGT	[33]
		GACCTGTGATMT	
		GAAAACCA YCGT	
Cytb	L14910	TGT	[42]
		CTTTGGTTTACA	55°C
		AGAACAATGCTT	
	H16064	TA	[42]

Table S4.

Gene partition models inferred by IQTREE.

Family	Gene	Nucleotide substitution model
Agamidae	12s-16s	TIM2+F+I+G4
	<i>BDNF</i>	TIM3e+I+G4
	<i>C-mos</i>	K2P+G4
	<i>R35</i>	TIM3+F+G4
	<i>Rag1</i>	TIM+F+I+G4
	<i>Cytb</i>	GTR+F+I+G4
	<i>ND1-ND2</i>	GTR+F+I+G4
	<i>ND4</i>	GTR+F+I+G4
	<i>AKAP9</i>	HKY+F
	<i>ATPSb</i>	HKY+F
	<i>BACH1</i>	HKY+F
	<i>COI</i>	TPM2u+F+I+G4
	<i>EXPH5</i>	TIM2+F
Anguidae	<i>NKTR</i>	HKY+F
	<i>SELT</i>	HKY+F
	<i>UBN1</i>	TN+F+G4
	<i>Cytb</i>	TPM2u+F+I+G4
	<i>ND2</i>	TVM+F+I+G4
	<i>ND4</i>	TPM2u+F+I+G4
	12s-16s	GTR+F+I+G4
Bufonidae	<i>CXCR4</i>	TPM3u+F+I+G4
	<i>NXC1</i>	TIM3+F+I+G4
	<i>POMC</i>	TIM2+F+I+G4
	<i>Rag1</i>	TIM2+F+I+G4
	<i>ND2</i>	K2P+G4

	12s-16s	GTR+F+I+G4
Ceratobatrachidae	<i>POMC</i>	TN+F+G4
	<i>Rag1</i>	HKY+F+G4
	<i>Tyr</i>	TPM3u+F+I+G4
	12S	TIM2+F+I+G4
	<i>C-mos</i>	K3Pu+F+G4
Colubridae	<i>Cytb</i>	GTR+F+I+G4
	<i>ND2</i>	GTR+F+I+G4
	<i>ND4</i>	GTR+F+I+G4
	12s-16s	GTR+F+I+G4
Dicroglossidae	<i>Rag1</i>	HKY+F+I+G4
	<i>Rag2</i>	TIM3+F+I+G4
	<i>Rhod</i>	K2P+I+G4
	<i>Tyr</i>	TIM2e+I+G4
Elapidae	12s-16s	GTR+F+I+G4
	<i>C-mos</i>	TPM3u+F+G4
	<i>Cytb</i>	GTR+F+I+G4
	<i>ND4</i>	GTR+F+I+G4
	<i>Rag1</i>	TPM3u+F+G4
	<i>ND2</i>	K3Pu+F+I+G4
Geckkonidae	<i>Rag1</i>	TN+F+G4
	<i>PDC</i>	TIM2e+G4
	16s	GTR+F+I+G4
Megophryidae	<i>BDNF</i>	K2P+G4
	<i>COI</i>	TVM+F+I+G4
	<i>Rag1</i>	TIMe+G4
	<i>Rhod</i>	K2P+G4
Pareidae	<i>C-mos</i>	K2P+G4
	<i>Cytb</i>	GTR+F+I+G4

	<i>ND4</i>	GTR+F+I+G4
	12s-16s	GTR+F+I+G4
	<i>BDNF</i>	K2P+I
	<i>CMYC</i>	K3P+I
	<i>COI</i>	TPM2+F+I+G4
	<i>CXCR4</i>	TPM2u+F+I+G4
	<i>Cytb</i>	TPM2+F+I+G4
	<i>NCX1</i>	HKY+F+I
Ranidae	<i>ND2</i>	GTR+F+I+G4
	<i>ND3</i>	TIM2+F+I+G4
	<i>POMC</i>	HKY+F+G4
	<i>Rag1</i>	TN+F+G4
	<i>Rag2</i>	HKY+F+G4
	<i>RH1</i>	K2P+I
	<i>Rhod</i>	K2P+I+G4
	<i>SLC8A3</i>	HKY+F+I
	<i>Tyr</i>	TIM2e+I+G4
	12s-16s	GTR+F+I+G4
	<i>BDNF</i>	TIM2e+I+G4
	<i>COI</i>	TIM2+F+I+G4
	<i>ND1</i>	TPM2+F+I+G4
Rhacophoridae	<i>POMC</i>	TN+F+G4
	<i>Rag1</i>	TIM3+F+I+G4
	<i>Rhod</i>	TVM+F+I+G4
	<i>Tyr</i>	TIM2e+I+G4
	<i>Cytb</i>	TPM2u+F+I+G4
	12s-16s	GTR+F+I+G4
Scincidae	<i>BDNF</i>	K3P+I+G4
	<i>C-mos</i>	TPM2u+F+I+G4

	<i>Cytb</i>	GTR+F+I+G4
	<i>ND2</i>	GTR+F+I+G4
	<i>ND4</i>	GTR+F+I+G4
	<i>R35</i>	TVM+F+G4
	<i>Rag1</i>	GTR+F+G4
	12s-16s	TIM2+F+I+G4
	<i>Cytb</i>	GTR+F+I+G4
	<i>ND4</i>	GTR+F+I+G4
	<i>BDNF</i>	TIM2e+I+G4
Viperidae	<i>C-mos</i>	TPM3u+F+G4
	<i>jun</i>	HKY+F+G4
	<i>nt3</i>	GTR+F+I+G4
	<i>Rag1</i>	TPM3+F+G4

Table S5.

The details of each calibration used in this study. The calibration nodes numbers correspond with **Data S6**.

Calibration nodes no.	Description	Type	References
1	Second calibration for Natatanura from 59.1 Ma to 69.8 Ma	Second calibration	[14]
2	Stem of <i>Pelophylax</i> at least 32 Ma	fossil	[49]
3	Stem of <i>Rana temporaria</i> group at least 19 Ma	fossil	[50]
4	Stem of <i>Rana catesbeiana</i> group at least 15 Ma	fossil	[51]
5	Stem of <i>Rana pipiens</i> group at least 18 Ma	fossil	[52, 53]
6	Stem-Alethinophidia, 95% set around 145 Ma	fossil	[54, 55, 56, 57]
7	Stem-Colubroidea, 95% set around 145 Ma	fossil	[54, 55, 56, 57]
8	Stem-Boinae, 95% set around 145 Ma	fossil	[54, 55, 56, 57]

9	Stem-Elapidae, 95% set around 145 Ma	fossil	[54, 55, 56, 57]
10	Stem-Viperidae, 95% set around 61.5 Ma	fossil	[56]
11	Stem- <i>Sistrurus</i> , 95% set around 47.4 Ma	fossil	[56]
12	Oldest ' <i>Bufo</i> ', 55 Ma (L. Palaeocene)	fossil	[57]
13	<i>Rhinella marinus</i> (M), Mie Miocene (11 Ma)	fossil	[58]
14	A minimum age of 18 Ma for the stem origin of toads belonging to the <i>Bufo viridis</i> group	fossil	[49, 59, 60]
15	A minimum age of 9.6 Ma for the origin of toads belonging to the <i>Bufo bufo</i> group	fossil	[49]
16	Second calibration for Megophryidae from 115.6 Ma to 141.5 Ma	Second calibration	[61]
17	MRCA for the <i>Spea-Scaphiopus</i> split at 33.3 Ma based on the oldest fossil scaphiopodid originally assigned with considerable confidence to the genus <i>Scaphiopus</i> (and not <i>Spea</i>), <i>S. skinneri</i> Estes, 1970, from the early Oligocene (Rupelian stage, 33.9–28.1 Ma, more specifically the Orellan, 33.9–33.3 Ma).	fossil	[62]
18	MRCA for the Pelodytidae-Pelobatidae split at 50.3 Ma based on the recently described, earliest known fossil pelodytid, <i>Aerugoamnis paulus</i> from the lower Eocene	fossil	[63]

	(Wasatchian, 55.4–50.3 Ma) of the Green River formation, Wyoming, which was characterized based on a single almost complete, and mostly articulated specimen MRCA for the Pelobatidae-Megophryidae split at 46.2 Ma, based on the recently described oldest unequivocally assigned		
19	pelobatid species, <i>Eopelobates deani</i> , from the early middle Eocene (or more specifically the Bridgerian, 50.3–46.2 Ma) of the Green River Formation, Wyoming	fossil	[64]
	The oldest known anguid, with the most complete fossil record of any lizard, is		
20	<i>Odaxosaurus</i> , from the late Campanian of Canada, approximately 75 Ma.	fossil	[65]
	The earliest record of <i>Ophisaurus</i> in Europe is a parietal of <i>Ophisaurus</i> sp. from the late		
21	Eocene Newton Bone Bed (Osborne Member, ca. 35 Ma)	fossil	[66]
	The fossil and associated fossil material were found in the Split Rock Formation in		
22	the Granite Mountains of central Wyoming. The minimum chronostratigraphic age of	fossil	[67]
	<i>Elgaria</i> is 16.7 Ma		
23	root age: 123 Ma (124.5–121.4 Ma)	Second calibration	[68]
	stem age of <i>Sceloporus</i> : at least 16 Ma (20.4–16 Ma)		
24		fossil	[69]
	Crown age of Phrynosomatinae (Phrynosoma, <i>Callisaurus</i> , <i>Uma</i>): at least		
25	33.3 Ma	fossil	[70]

26	Crown-group age of Phrynosomatidae: at least 33.9 Ma	fossil	[70]
27	Crown age of <i>Anolis</i> : at least 15 Ma	fossil	[71]
28	Stem age of <i>Polychrus</i> : at least 33.9 Ma	fossil	[70]
29	Crown age of Iguanidae (<i>sensu stricto</i>): at least 16 Ma	fossil	[72, 73]
30	Crown age of Acrodonta(stem age of Chamaeleonidae): at least 48.6 Ma	fossil	[72, 73, 74]
31	Crown age of Agamidae (stem age of Uromastyx): at least 33.9 Ma	fossil	[73, 76]
32	Stem age of <i>Istiurus lesuerii</i> : at least 21 Ma	fossil	[73, 76]
33	Crown age Pleurodonta:at least 70 Ma	fossil	[77]
34	Crown age of Gekkota at least 54 Ma	fossil	[78]
35	Stem of Scincidae at least 70 Ma	fossil	[80, 81]
36	Stem mrca of Xantusiidae, Gerrhosauridae and Cordylidae at least 65.2 Ma	fossil	[81]
37	Upper value of 95% interval of node of the mrca of Gekkota	Second calibration	[82]
38	Divergence between <i>Sphaerodactylus elegans</i> and <i>S. roosevelti</i> at 20–15Ma	fossil	[83]
39	The divergence between <i>Woodworthia maculata</i> and <i>Oedura marmorata</i> at 19–16Ma	fossil	[83]
40	The most-recent common ancestor of Gekkota at 110–97 Ma	fossil	[84]

Data S1.

Calibrated divergence time tree files analyzed by MCMCTREE of 14 families (in newick format).

Agamidae

((((((((((((((((((Diploderma_brevipes:0.074229,Diploderma_luei:0.074229):0.029452,Diploderma_makii:0.103681):0.04265,Diploderma_polygonata:0.146331):0.03795,Diploderma_swinhonis:0.184281):0.043784,(Diploderma_flaviceps:0.157142,Diploderma_splendida:0.157142):0.070922):0.015732,((Diploderma_dymondi:0.110586,Diploderma_varcoae:0.110586):0.064689,(Diploderma_micangshanensis:0.13571,Diploderma_zhaoermii:0.13571):0.039565):0.068522):0.050489,Diploderma_iadinum:0.294286):0.027585,(((Diploderma_vela:0.081203,Diploderma_batangensis:0.081203):0.025091,Diploderma_yulongense:0.106294):0.140567,(Diploderma_laeviventris:0.170443,Diploderma_slowinskii:0.170443):0.076417):0.023941,(Diploderma_chapaensis:0.079921,Diploderma_yunnanense:0.079921):0.190879):0.051069):0.084967,(Pseudocalotes_bapoensis:0.254563,Pseudocalotes_brevipes:0.254563):0.152274):0.124952,(Acanthosaura_armata:0.264828,Acanthosaura_lepidogaster:0.264828):0.266961):0.03714,((Cristidorsa_planidorsata:0.13881,Cristidorsa_otai:0.13881):0.37372,Salea_horsfieldii:0.51253):0.056399):0.035155,((((((Calotes_calotes:0.182358,Calotes_htunwini:0.182358):0.05367,Calotes_ceylonensis:0.236027):0.03484,(Calotes_versicolor:0.079723,Calotes_irawadi:0.079723):0.191144):0.066547,((Calotes_jerdoni:0.163372,Calotes_medogensis:0.163372):0.108575,Calotes_minor:0.271947):0.065467):0.047453,((Calotes_emma:0.026353,Calotes_chincollium:0.026353):0.315693,Calotes_mystaceus:0.342046):0.042821):0.140073,((((((Sitana_laticeps:0.074378,Sitana_spinaecephalus:0.074378):0.054275,Sitana_sivalensis:0.128653):0.035155,Sitana_marudhamneydhal:0.163808):0.021143,(Sitana_ponticeriana:0.0820570013473034,Sitana_visiri:0.082057):0.102895):0.087281,Sarada_deccanensis:0.272233):0.150218,Otocryptis_beddomei:0.422451):0.102489):0.047832,(((Aphaniotis_fusca:0.273888,Coryphophylax_subcristatus:0.273888):0.151658,(Bronchocela_cristatella:0.314953,Gonocephalus_grandis:0.314953):0.110593):0.07911,(Lyriocephalus_scutatus:0.327699,Ceratophora_aspera:0.327699):0.176957):0.068116):0.031312):0.070299,((((((((Draco_obscurus:0.10198,Draco_teniopterus:0.10198):0.085852,Draco_blanfordii:0.187832):0.025104,(Draco_haematopogon:0.167935,Draco_melanopogon:0.167935):0.045001):0.03119,Draco_quinquefasciatus:0.244125):0.020618,Draco_maximus:0.264744):0.053891,Draco_maculatus:0.318635):0.055314,(((Draco_cornutus:0.167187,Draco_volans:0.167187):0.095257,Draco_bimaculatus:0.262444):0.049308,Draco_biaro:0.311752):0.062197):0.036828,Draco_dussumieri:0.410777):0.025923,Draco_lineatus:0.4367):0.10996,(((Japalura_variegata:0.347727,Pseudocalotes_austeniana:0.347727):0.058576,Japalura_andersoniana:0.406303):0.03201,(Japalura_tricarinata:0.376687,Japalura_kumaonensis:0.376687):0.061625):0.108348):0.031404,(Ptyctolaemus_collicristatus:0.386566,Ptyctolaemus_gularis:0.386566):0.191498):0.096319):0.109088,Mantheyus_phuwuanensis:0.783472):0.106602,((((((((Phrynocephalus_raddei:0.083081,Phrynocephalus_reticulatus:0.083081):0.07153,Phrynocephalus_rossikowi:0.154611):0.024651,Phrynocephalus_strauchi:0.179262):0.045876,(Phrynocephalus_helioscopus:0.161231,Phrynocephalus_persicus:0.161231):0.063907):0.015151,(((Phrynocephalus_przewalskii:0.042475,Phrynocephalus_frontalis:0.042475):0.020857,Phrynocephalus_versicolor:0.063332):0.060514,Phrynocephalus_guttatus:0.123846):0.07904,Phrynocephalus_axillaris:0.202886):0.037404):0.023118,Phrynocephalus_mystaceus:0.263407):0.021181,(((Phrynocephalus_vlangalii:0.042869,Phrynocephalus_erythrurus:0.042869):0.047565,Phrynocephalus_theobaldi:0.090434):0.027167,(Phrynocephalus_putjatia:0.036538,Phrynocephalus_guinanensis:0.036538):0.081063):0.021183,Phrynocephalus_forsythii:0.138785):0.145803):0.043853,(((Phrynocephalus_arabicus:0.154113,Phrynocephalus_maculatus:0.154113):0.103894,Phrynocephalus_scutellatus:0.258007):0.034803,(Phrynocephalus_interscapularis:0.212901,Phrynocephalus_ornatus:0.212901):0.07991):0.035

63):0.194001,Stellagama_stellio:0.522441):0.034133,((Paralaudakia_himalayana:0.204435,Paralaudakia_lehmanni:0.204435):0.061123,Paralaudakia_caucasia:0.265558):0.291016):0.046346,(((Acanthocercus_atricollis:0.17171,Xenagama_taylori:0.17171):0.176662,Pseudotrapelus_sinaitus:0.348373):0.156682,(Agama_agama:0.245285,Agama_anchietae:0.245285):0.25977):0.030672,((Trapelus_agilis:0.093841,Trapelus_mutabilis:0.093841):0.222546,Bufoniceps_laungwalaensis:0.316387):0.21934):0.067193):0.046354,(((Laudakia_tuberculata:0.220084,Laudakia_papenfussi:0.220084):0.247137,(Laudakia_sacra:0.073726,Laudakia_wui:0.073726):0.393494):0.085232,(Laudakia_nupta:0.448327,Laudakia_melanura:0.448327):0.104125):0.096822):0.240799):0.048057,Hydrosaurus_amboinensis:0.938131):0.026518,((((((((Tympanocryptis_tetraporphora:0.127828,Tympanocryptis_lineata:0.127828):0.066744,Pogona_vitticeps:0.194572):0.020892,(Diporiphora_nobbi:0.158108,Diporiphora_winneckeii:0.158108):0.057355):0.020825,Rankinia_diemensis:0.236289):0.020718,Gowidon_temporalis:0.257007):0.018083,(Chlamydosaurus_kingii:0.165121,Amphibolurus_muricatus:0.165121):0.109968):0.04146,(Ctenophorus_adelaidensis:0.247188,Ctenophorus_isolepis:0.247188):0.069362):0.037741,Intellagama_lesueurii:0.354291):0.021452,((Chelosania_brunnea:0.279199,Moloch_horridus:0.279199):0.059767,Hypsilurus_boydii:0.338966):0.036777):0.123379,Physignathus_cocincinus:0.499122):0.465527):0.085557,(Leiolepis_belliana:0.259154,Leiolepis_guttata:0.259154):0.791052):0.049546,((Uromastix_acanthinura:0.251193,Uromastix_aegyptia:0.251193):0.182597,Saara_hardwickii:0.433791):0.66596);

Anguidae

((((((((Dopasia_hainanensis:0.15496,Dopasia_sp:0.15496):0.034935,Dopasia_harti:0.189895):0.089765,Dopasia_gracilis:0.27966):0.091846,(Ophisaurus_ventralis:0.289145,Ophisaurus_attenuatus:0.289145):0.082361):0.044481,(Anguis_fragilis:0.27204,Pseudopus_apodus:0.27204):0.143948):0.041828,Hyalosaurus_koellikeri:0.457815):0.179639,(((Abroniam_graminea:0.293464,Mesaspis_monticola:0.293464):0.032031,Barisia_imbricata:0.325494):0.035709,Gerrhonotus_parvus:0.361203):0.062683,Elgaria_kingii:0.423886):0.213568);

Bufonidae

((((((((((((((((Bufo_aspinus:0.034532,Bufo_cryptotympanicus:0.034532):0.026912,Bufo_tuberospinus:0.061444):0.042135,Bufo_tuberculatus:0.103579002618313):0.021686,((Bufo_japonicus:0.080281,Bufo_torrenticola:0.080281):0.021912,Bufo_stejnegeri:0.102193):0.023072):0.015181,(Bufo_bankorensis:0.026894,Bufo_gargarizans:0.026894):0.113552):0.066838,(Bufo_bufo:0.022319,Bufo_verrucosissimus:0.022319):0.184965):0.087301,((Barbarophryne_brongersmai:0.252178,Epidalea_calamita:0.252178):0.028778,Sabahphrynus_maculatus:0.280956):0.01363):0.014149,(((Ingerophrynus_biporcatus:0.134079,Ingerophrynus_parvus:0.134079):0.022972,Ingerophrynus_philippinicus:0.157052):0.019457,Ingerophrynus_divergens:0.176509):0.027184,(Ingerophrynus_galeatus:0.133799,Ingerophrynus_macrotis:0.133799):0.069894):0.085938,(Didynamipus_sjostedti:0.261679,Schismaderma_carens:0.261679):0.027952):0.019103):0.00998,((((((((Duttaphrynus_brevirostris:0.067146,Duttaphrynus_melanostictus:0.067146):0.015038,Duttaphrynus_parietalis:0.082185):0.048002,(Duttaphrynus_atukoralei:0.048006,Duttaphrynus_scaber:0.048006):0.08218):0.01228,Duttaphrynus_himalayanus:0.142466):0.028046,(Duttaphrynus_crocus:0.148453,Duttaphrynus_stuarti:0.148453):0.022059):0.038558,((Duttaphrynus_hololius:0.086715,Duttaphrynus_stomaticus:0.086715):0.033945,Duttaphrynus_dhufarensis:0.12066):0.08841):0.022401,(Bufoideus_meghalayanus:0.166909,Xanthophryne_koynayensis:0.166909):0.064562):0.009916,Adenomus

_kelaartii:0.241387):0.022926,Pedostibes_tuberculosis:0.264313):0.036941,((Phrynoideis_asper:0.123844,Phrynoideis_juxtasper:0.123844):0.113195,Pedostibes_hosii:0.237039):0.064215):0.007345,Leptophryne_borbonica:0.308599):0.010116):0.00339,(((Ansonia_hanitschi:0.216217,Ansonia_leptopus:0.216217):0.051805,(Pelophryne_misera:0.151099,Pelophryne_signata:0.151099):0.116923):0.042513,(Ansonia_ornata:0.281423,Strauchbufo_raddei:0.281423):0.029112):0.011569):0.002563,((((Bufotes_baturae:0.0174239997397661,Bufotes_zamdaensis:0.017424):0.05791,(Bufotes_boulengeri:0.029109,Bufotes_siculus:0.029109):0.046225):0.014583,Bufotes_balearicus:0.089917):0.037274,((Bufotes_oblongus:0.015243,Bufotes_pewzowi:0.015243):0.060226,Bufotes_variabilis:0.075468):0.051722):0.04714,Bufotes_viridis:0.174331):0.150336):0.00496,((Nectophrynoideis_tornieri:0.111337,Nectophrynoideis_viviparus:0.111337):0.105278,Churamiti_maridadi:0.216614):0.113013):0.007554,((((Mertensophryne_micranotis:0.166108,Mertensophryne_uzunguensis:0.166108):0.054421,Poyntonophrynus_dombensis:0.220529):0.067291,(Sclerophrys_brauni:0.18704,Sclerophrys_garmani:0.18704):0.10078):0.022984,((Capensibufo_rosei:0.102099,Capensibufo_tradouwi:0.102099):0.157731,Vandijkophrynus_amatolicus:0.25983):0.050974):0.017133,((Nectophryne_afra:0.240898,Werneria_mertensiana:0.240898):0.035759,Wolterstorffina_parvipalmata:0.276657):0.05128):0.009244):0.023192,(((Anaxyrus_americanus:0.032126,Anaxyrus_terrestris:0.032126):0.134079,Anaxyrus_quercicus:0.166204):0.139675,((Incilius_alvarius:0.239402,Incilius_coccifer:0.239402):0.038774,Bufotes_latastii:0.278176):0.027703):0.032174,((Rhinella_marina:0.025028,Rhinella_schneideri:0.025028):0.232684,Rhinella_nattereri:0.257712):0.080341):0.02232):0.030105,(Peltophryne_lemur:0.32656,Rhaebo_haematiticus:0.32656):0.063918):0.037936,(Nannophryne_apolobambica:0.301935,Nannophryne_cophotis:0.301935):0.126478):0.053582,Dendrophryniscus_minutus:0.481996):0.049585,((Atelopus_peruensis:0.25548,Atelopus_spumarius:0.25548):0.203261,Osornophryne_guacamayo:0.458741):0.072839):0.070374,(Melanophryniscus_klappenbachi:0.071871,Melanophryniscus_stelzneri:0.071871):0.530082);

Ceratobatrachidae

((((((((Platymantis_indeprensus:0.029158,Platymantis_mimulus:0.029158):0.033786,Platymantis_naomii:0.062944):0.019221,Platymantis_pseudodorsalis:0.082165):0.015645,(Platymantis_cagayanensis:0.019479,Platymantis_taylori:0.019479):0.078332):0.015872,(Platymantis_dorsalis:0.085823,Platymantis_paengi:0.085823):0.02786):0.032329,Platymantis_spelaeus:0.146012):0.039644,(((Platymantis_luzonensis:0.030234,Platymantis_negrosensis:0.030234):0.044574,Platymantis_rabori:0.074808):0.017032,(Platymantis_bayani:0.061353,Platymantis_guentheri:0.061353):0.030488):0.025539,Platymantis_diesmosi:0.11738):0.068276):0.074103,((((Platymantis_hazelae:0.017886,Platymantis_panayensis:0.017886):0.045217,Platymantis_lawtoni:0.063103):0.011775,(Platymantis_polillensis:0.027232,Platymantis_sierramadrensis:0.027232):0.047647):0.008003,Platymantis_subterrestris:0.082882):0.016354,Platymantis_isarog:0.099236):0.09965,Platymantis_corrugatus:0.198886):0.043755,(((Platymantis_banahao:0.085272,Platymantis_insulatus:0.085272):0.027618,Platymantis_pygmaeus:0.11289):0.030219,Platymantis_levigatus:0.143109):0.099532):0.017119):0.095506,((((Cornufer_occidentalis:0.034194,Cornufer_pelewensis:0.034194):0.021478,Cornufer_papuensis:0.055672):0.05877,(Cornufer_boulengeri:0.051724,Cornufer_gilliardi:0.051724):0.062718):0.023316,(Cornufer_adiastolus:0.099893,Cornufer_akarithymus:0.099893):0.037865):0.017078,Cornufer_weberi:0.154836):0.039403,Cornufer_solomonis:0.194239):0.032265,Cornufer_parilis:0.226504):0.025935,(((Cornufer_bufonulus:0.108669,Cornufer_caesiops:0.108669):0.076067,Cornufer_minutus:0.184736):0.04114,((Cornufer_vertrebralis:0.058268,Cornufer_

wolfi:0.058268):0.124282,Cornufer_cheesemanae:0.18255):0.043326):0.026563):0.025293,((((C
ornufer_guppyi:0.03209,Cornufer_hedigeri:0.03209):0.121532,Cornufer_vitianus:0.153622):0.03
6336,Cornufer_myersi:0.189957):0.043956,Cornufer_guentheri:0.233914):0.017138,(Cornufer_b
ufoniformis:0.097105,Cornufer_malukuna:0.097105):0.153947):0.026681):0.077534):0.075404,((
(Alcalus_baluensis:0.132337,Alcalus_mariae:0.132337):0.084014,Alcalus_rajae:0.216351):0.095
242,Alcalus_tasanae:0.311593):0.119077):0.024441,(((Liurana_xizangensis:0.032609,Liurana_m
edogensis:0.032609):0.105273,Liurana_alpina:0.137882):0.061158,Liurana_vallecula:0.19904):0.
25607);

Colubridae

((Pseudoxenodon_stejnegeri:0.193649,(Pseudoxenodon_bambusicola:0.126207,(Pseudoxenodon_
karlschmidti:0.105897,Pseudoxenodon_macrops:0.105897):0.02031):0.067442):0.329329,(((Hyps
iglena_torquata:0.408453,(Thermophis_baileyi:0.057878,Thermophis_zhaoermii:0.057878):0.350
575):0.076305,(Thamnophis_sirtalis:0.416029,(((Herpetoreas_platyceps:0.186996,(Herpetoreas_b
urbrinki:0.1333,Hebius_parallelum:0.1333):0.053696):0.056524,(Hebius_craspedogaster:0.23020
6,(Trachischium_monticola:0.190114,(Trachischium_guentheri:0.159252,Trachischium_tenuiceps:
0.159252):0.030862):0.040092):0.013314):0.144621,(Amphiesma_stolatum:0.342912,(((Fowlea_
piscator:0.19437,Fowlea_schnurrenbergeri:0.19437):0.040626,(Atretium_yunnanensis:0.144214,(
Fowlea_flavipunctatus:0.104183,Xenochrophis_punctulatus:0.104183):0.040031):0.090782):0.08
4238,(Rhabdophis_himalayanus:0.234925,((Rhabdophis_subminiatus:0.17983,(Rhabdophis_adler
i:0.15128,Rhabdophis_nigrocinctus:0.15128):0.02855):0.013393,(Rhabdophis_tigrinus:0.164031,
(Rhabdophis_guangdongensis:0.099139,(Rhabdophis_pentasupralabialis:0.068931,(Rhabdophis_l
eonardi:0.056367,Rhabdophis_nuchalis:0.056367):0.012564):0.030208):0.064892):0.029192):0.0
41702):0.084309):0.023679):0.045229):0.027888):0.068729):0.02546,(((Calamaria_pavimentata:
0.148077,Calamaria_yunnanensis:0.148077):0.282847,(Sibynophis_bistrigatus:0.342688,(Sibyno
phis_chinensis:0.181469,(Sibynophis_collaris:0.092891,Sibynophis_triangularis:0.092891):0.088
578):0.161219):0.088235):0.05933,(((Ahaetulla_prasina:0.241556,(Ahaetulla_pulverulenta:0.219
426,(Ahaetulla_fronticincta:0.16471,Ahaetulla_nasuta:0.16471):0.054716):0.02213):0.17217,((Ch
rysopelea_paradisi:0.294125,Chrysopelea_taprobatica:0.294125):0.083693,((Dendrelaphis_bifren
alis:0.27137,Dendrelaphis_subocularis:0.27137):0.045157,((Dendrelaphis_caudolineatus:0.07792
7,Dendrelaphis_fuliginosus:0.077927):0.20938,(Dendrelaphis_formosus:0.264324,((Dendrelaphis
_striatus:0.166611,(Dendrelaphis_ngansonensis:0.041661,Dendrelaphis_cyanochloris:0.04166100
02315044):0.124949):0.068927,(Dendrelaphis_haasi:0.139101,(Dendrelaphis_marenae:0.001273,
Dendrelaphis_pictus:0.001273):0.137828):0.0964369996144772):0.028786):0.022983):0.029221):
0.061291):0.035908):0.049444,(((Archelaphe_bella:0.317692,Oreocryptophis_porphyraceus:0.31
7692):0.038448,((Elaphe_hodgsoni:0.262531,(Elaphe_taeniura:0.244662,(Elaphe_moellendorffi:0.
18103,Elaphe_cantoris:0.181030004778862):0.063632):0.01787):0.048248,((Elaphe_quatuorlinea
ta:0.070572,Elaphe_sauromates:0.070572):0.151625,((Elaphe_bimaculata:0.13451,Elaphe_dione:
0.13451):0.064013,(Elaphe_climacophora:0.184757,((Elaphe_carinata:0.068986,Elaphe_davidi:0.
068986):0.100033,(Elaphe_quadrivirgata:0.1448,Elaphe_schrenckii:0.1448):0.024219):0.015738):
0.013765):0.023675):0.088582):0.04536):0.047115,(((Ptyas_korros:0.297485,((Ptyas_carinata:0.2
11785,Ptyas_mucosa:0.211785):0.065746,((Ptyas_dhumnades:0.058366,Ptyas_nigromarginata:0.0
58366):0.195326,(Ptyas_fusca:0.178615,Ptyas_luzonensis:0.178615):0.075077):0.023839):0.0199
54):0.082962,(((Boiga_forsteni:0.149802,Boiga_cynodon:0.149802):0.167109,(Boiga_trigonata:0.

289911,(Boiga_ceylonensis:0.243756,(Boiga_barnesii:0.171844,Boiga_beddomei:0.171844):0.071912):0.046154):0.027001):0.036534,(Oligodon_sublineatus:0.283351,(((Oligodon_cruentatus:0.047791,Oligodon_theobaldi:0.047791):0.060435,(Oligodon_planiceps:0.055402,Oligodon_torquatus:0.055402):0.052823):0.076072,((Oligodon_cinereus:0.111973,(Oligodon_nagao:0.053061,Oligodon_sp:0.053061):0.058912):0.046082,(Oligodon_lipipengi:0.141933,(Oligodon_maculatus:0.083415,Oligodon_splendidus:0.083415):0.058517):0.016122):0.026243):0.053349,((Oligodon_ornatus:0.092199,Oligodon_lacroixi:0.092199):0.113684,((Oligodon_chinensis:0.041358,Oligodon_ormosanus:0.041358):0.079932,(Oligodon_cyclurus:0.103513,(Oligodon_octolineatus:0.095134,(Oligodon_taeinatus:0.076277,(Oligodon_fasciolatus:0.060182,(Oligodon_barroni:0.026354,Oligodon_ocellatus:0.026354):0.033827):0.016096):0.018856):0.008379):0.017778):0.084593):0.031763):0.045705):0.070094):0.027002):0.009429,((Coelognathus_radiatus:0.309945,(Coelognathus_helena:0.27488,(Coelognathus_erythrurus:0.182002,(Coelognathus_flavolineatus:0.131576,Coelognathus_subradiatus:0.131576):0.050426):0.092878):0.035065):0.068828,(Coluber_constrictor:0.372251,(((Gonyosoma_janseni:0.082514,Gonyosoma_oxyccephalum:0.082514):0.232649,(Gonyosoma_prasinum:0.216138,(Gonyosoma_boulengeri:0.084256,Gonyosoma_frenatum:0.084256):0.131881):0.099025):0.045582,(Lycodon_paucifasciatus:0.330888,((Lycodon_carinatus:0.207808,Lycodon_laoensis:0.207808):0.108759,((Lycodon_ruhstrati:0.257378,(Lycodon_dumerilii:0.180582,(Lycodon_muelleri:0.148105,(Lycodon_bibonius:0.037841,(Lycodon_alcalai:0.005561,Lycodon_chrysoprateros:0.005561):0.032281):0.110264):0.032476):0.076796):0.045754,((Lycodon_effraensis:0.256686,(Lycodon_jara:0.190153,(Lycodon_aulicus:0.097792,Lycodon_zawi:0.097792):0.092361):0.066533):0.028707,((Lycodon_synaptor:0.187747,(Lycodon_gongshan:0.125325,((Lycodon_butleri:0.0824,Lycodon_cavernicolus:0.0824):0.030815,Lycodon_fasciatus:0.113214000617504):0.012111):0.062422):0.07142,((Lycodon_stormi:0.188749,Lycodon_subcinctus:0.188749):0.031287,((Lycodon_futsingensis:0.079124,Lycodon_septentrionalis:0.079124):0.0607,(Lycodon_rufozonatus:0.108353,Lycodon_meridionalis:0.108352999994278):0.031471):0.080211):0.039131):0.026225):0.01774):0.013435):0.01432):0.029857):0.011506):0.006523):0.011104):0.013377):0.059916):0.027083):0.019964):0.01276);

Dicroglossidae

((((((((((((Fejervarya_multistriata:0.064752,Fejervarya_sakishimensis:0.064752):0.042469,Fejervarya_iskandari:0.107221):0.038855,Fejervarya_triora:0.146076):0.03003,Fejervarya_limnocharis:0.176106):0.062969,Fejervarya_cancrivora:0.239074):0.06576,(((Sphaerotheca_breviceps:0.019135,Sphaerotheca_pluvialis:0.019135):0.092758,Sphaerotheca_dobsonii:0.111893):0.082088,Sphaerotheca_rolandae:0.193981):0.110854):0.013196,(((Minervarya_pierrei:0.063672,Minervarya_syhadrensis:0.063672):0.057228,Minervarya_greenii:0.120901):0.032831,Minervarya_caperata:0.153731):0.164299):0.065577,((((Hoplobatrachus_crassus:0.09473,Hoplobatrachus_tigerinus:0.09473):0.030359,Hoplobatrachus_rugulosus:0.125088):0.071106,Hoplobatrachus_occipitalis:0.196194):0.046022,Euphlyctis_cyanophlyctis:0.242216):0.044648,Euphlyctis_hexadactylus:0.286864):0.047213,Nannophrys_ceylonensis:0.334077):0.04953):0.09867,(((Limnonectes_fujianensis:0.118888,Limnonectes_kuhlii:0.118888):0.115431,Limnonectes_fragilis:0.234319):0.036974,(Limnonectes_deinodon:0.221556,Limnonectes_limborgi:0.221556):0.049737):0.047372,(((Limnonectes_finchi:0.155458,Limnonectes_poilani:0.155458):0.047416,Limnonectes_grunniens:0.202873):0.03648,(Limnonectes_magnus:0.111681,Limnonectes_modestus:0.111681):0.127673):0.079312):0.163611):0.021098,((((((((Nanorana_arnoldi:0.004514,Nanorana_chayuensis:0.004514):0.014484,Nan

orana_maculosa:0.018998):0.014969,Nanorana_medogensis:0.033967):0.029611,(Nanorana_conaensis:0.045451,Nanorana_blanfordii:0.045451):0.018128):0.021771,((Nanorana_polunini:0.016705,Nanorana_rostandi:0.016705):0.028359,Nanorana_liebigii:0.045064):0.040285):0.039608,((Nanorana_pleskei:0.041094,Nanorana_ventripunctata:0.041094):0.034598,Nanorana_parkeri:0.075692):0.049265):0.018532,(((Nanorana_aenea:0.070351,Nanorana_unculuanus:0.070351):0.032384,(Nanorana_bourreti:0.030177,Nanorana_yunnanensis:0.030177):0.072558):0.021804,(Nanorana_quadranus:0.103542,Nanorana_taihangnica:0.103542):0.020998):0.018949):0.078439,(((Quasipaa_boulengeri:0.068885,Quasipaa_spinosa:0.068885):0.032745,Quasipaa_shini:0.10163):0.013537,Quasipaa_yei:0.115167):0.035918,Quasipaa_verrucospinosa:0.151085):0.070843):0.281447):0.06447,((((Occidozyga_laevis:0.25994,Occidozyga_martensii:0.25994):0.056097,Occidozyga_baluen sis:0.316037):0.062397,Occidozyga_lima:0.378434):0.079862,(Ingerana_borealis:0.181083,Ingerana_tenasserimensis:0.181083):0.277213):0.109549);

Elapidae

((((((((((((((((Hoplocephalus_bitorquatus:0.100408,Paroplocephalus_atriceps:0.100408):0.039832,(Notechis_scutatus:0.057908,Tropidechis_carinatus:0.057908):0.082332):0.03797,Austrelaps_sup erbus:0.178211):0.023795,Drysdalia_coronoides:0.202006):0.039266,Echiopsis_curta:0.241272):0.015764,Hemiaspis_dameli:0.257037):0.021134,(((Hydrelaps_darwiniensis:0.169631,Hydrophis_cyanocinctus:0.169631):0.014007,(Ephalophis_greya:0.116568,Parahydrophis_mertoni:0.116568):0.06707):0.035262,(Aipysurus_laevis:0.121515,Emydocephalus_annulatus:0.121515):0.097385):0.05927):0.026387,(((Parasuta_monachus:0.158849,Suta_suta:0.158849):0.061776,Elapognathus_coronatus:0.220625):0.025223,(Cryptophis_nigrescens:0.186564,Rhinoplocephalus_bicolor:0.186564):0.059283):0.039556,Cacophis_squamulosus:0.285404):0.019154):0.017921,((((Denisonia_devisi:0.213281,Pseudechis_australis:0.213281):0.054098,(Neelaps_calonotus:0.231136,Ver micella_intermedia:0.231136):0.036242):0.013263,(Oxyuranus_microlepidotus:0.18646,Pseudonaja_textilis:0.18646):0.094183):0.010902,(Aspidomorphus_muelleri:0.244635,Furina_diadema:0.244635):0.04691):0.013565,Acanthophis_praelongus:0.305109):0.007255,(Brachyurophissemifasciatus:0.251651,Simoselaps_anomalus:0.251651):0.060714):0.010114):0.019239,(Demansia_papue nsis:0.221266,Toxicocalamus_preussi:0.221266):0.120452):0.016507,Micropechis_ikaheka:0.358224):0.02155,Laticauda_colubrina:0.379774):0.039979,((((((((Bungarus_candidus:0.066612,Bungarus_multicinctus:0.066612):0.061165,Bungarus_niger:0.127777):0.051899,(Bungarus_caeruleus:0.127587,Bungarus_sindanus:0.127587):0.052088):0.052149,Bungarus_fasciatus:0.231825):0.047009,Bungarus_ceylonicus:0.278834):0.05211,(Bungarus_bungaroides:0.098076,Bungarus_slowi nskii:0.098076):0.232868):0.047785,Bungarus_flaviceps:0.378729):0.041024):0.008922,((((((((N aja_annulifera:0.03095,Naja_haje:0.03095):0.064507,Naja_nivea:0.095457):0.104735,((Naja_melanoleuca:0.128735,Naja_annulata:0.128735):0.025014,Naja_multifasciata:0.15375):0.046443):0.033648,(((Naja_ashei:0.04419,Naja_mossambica:0.04419):0.018505,Naja_nigricollis:0.062695):0.042683,Naja_katiensis:0.105377):0.057786,(Naja_nubiae:0.103062,Naja_pallida:0.103062):0.060101):0.070677):0.019048,(((Naja_atra:0.07887,Naja_kaouthia:0.07887):0.011773,(Naja_siamensis:0.046613,Naja_sumatrana:0.046613):0.04403):0.02406,Naja_naja:0.114703):0.138186):0.025765,Hemachatus_haemachatus:0.278653):0.056257,(Aspidelaps_scutatus:0.280203,Walterinnesia_egyptia:0.280203):0.054708):0.065365,(((Dendroaspis_angusticeps:0.316527,Ophiophagus_hannah:0.316527):0.035416,Elapsoidea_semiannulata:0.351943):0.026364,(Hemibungarus_calligaster:0.290603,Calliophis_bibroni:0.290603):0.087704):0.02197):0.028399):0.007257,((((Sinomicrurus

_maccllelandi:0.168413,Sinomicrurus_kelloggii:0.168413):0.081688,Sinomicrurus_japonicus:0.250101):0.117122,Micrurus_surinamensis:0.367222):0.041054,Micruroides_euryxanthus:0.408276):0.027656):0.021212,(((Calliophis_castoe:0.18369,Calliophis_nigrescens:0.18369):0.123815,Calliophis_melanurus:0.307506):0.10904,(Calliophis_bivirgata:0.284359,Calliophis_intestinalis:0.284359):0.132187):0.040598);

Gekkonidae

((Alsophylax_pipiens:0.759255,Microgecko_persicus:0.759255):0.065634,(((Calodactylodes_illingworthorum:0.746996,(Chondrodactylus_fitzsimonsi:0.646981,Homopholis_walbergii:0.646981):0.062535,(Phelsuma_inexpectata:0.18113,Phelsuma_rosagularis:0.18113):0.528386):0.03748):0.049408,(Dixonius_vietnamensis:0.663639,Nactus_vankampeni:0.663639):0.114176,(Gehyra_mutilata:0.670201,(((Hemiphyllodactylus_bintik:0.160727,Hemiphyllodactylus_harterti:0.160727):0.275982,(Hemiphyllodactylus_titiwangsaensis:0.28322,(Hemiphyllodactylus_larutensis:0.106881,Hemiphyllodactylus_teharik:0.106881):0.176339):0.153489):0.123737,(Hemiphyllodactylus_ganoklonis:0.27536,(Hemiphyllodactylus_insularis:0.21351,Hemiphyllodactylus_typus:0.21351):0.06185):0.170937,(Hemiphyllodactylus_aurantiacus:0.411384,(Hemiphyllodactylus_banaensis:0.17604,Hemiphyllodactylus_dushanensis:0.17604):0.207609,(Hemiphyllodactylus_chiangmaiensis:0.188825,(Hemiphyllodactylus_yunnanensis:0.149199,Hemiphyllodactylus_jinpingensis:0.149199):0.039626):0.075843,(Hemiphyllodactylus_longlingensis:0.217313,(Hemiphyllodactylus_zayuensis:0.149772,Hemiphyllodactylus_changningensis:0.149772):0.067541):0.047355):0.118981):0.027735):0.034913):0.114148):0.109755):0.107614):0.01859):0.017167,(((Lepidodactylus_orientalis:0.486626,(Lepidodactylus_lugubris:0.437388,Luperosaurus_cumingii:0.437388):0.049238):0.162517,(Gekko_monarchus:0.530417,(Gekko_vittatus:0.480955,(Gecko_smithi:0.194568,Gekko_gecko:0.194568):0.286386):0.049462):0.118726):0.144628,(((Altiphylax_stolickzai:0.261474,Altiphylax_medogensis:0.261474):0.28936,(Altiphylax_levitoni:0.495353,(Mediodactylus_russowii:0.425595,Tropiocolotes_nubicus:0.425595):0.069758):0.041088,(Cyrtopodion_mansarulus:0.285239,Cyrtopodion_scabrum:0.285239):0.118716,(Tenuidactylus_caspicus:0.365761,(Crossobamon_orientalis:0.322603,Cyrtopodion_aravallensis:0.322603):0.043158):0.038194):0.132485):0.014395):0.181732,((Hemidactylus_anamallensis:0.658436,(((Hemidactylus_aaronbaueri:0.320593,(Hemidactylus_depressus:0.226104,(Hemidactylus_triedrus:0.173678,(Hemidactylus_maculatus:0.10481,Hemidactylus_prashadi:0.10481):0.068868):0.052426):0.094489):0.136119,(Hemidactylus_leschenaulti:0.140406,Hemidactylus_flaviviridis:0.140406):0.295188,(Hemidactylus_frenatus:0.352722,(Hemidactylus_brookii:0.245837,(Hemidactylus_gracilis:0.154203,Hemidactylus_imbricatus:0.154203):0.091634):0.106885):0.082871):0.021119):0.072145,(((Hemidactylus_craspedotus:0.283712,Hemidactylus_platyurus:0.283712):0.052897,(Hemidactylus_karenorum:0.142528,Hemidactylus_giganteus:0.142528):0.11895,(Hemidactylus_garnotii:0.236527,(Hemidactylus_aquilonius:0.102022,Hemidactylus_bowringii:0.102022):0.134505):0.02495):0.075132):0.173431,(Hemidactylus_fasciatus:0.443659,(Hemidactylus_persicus:0.240134,Hemidactylus_robustus:0.240134):0.203525):0.047251,(Hemidactylus_angulatus:0.450801,(Hemidactylus_mabouia:0.338735,(Hemidactylus_palaichthus:0.275599,(Hemidactylus_brasilianus:0.191929,Hemidactylus_greeffii:0.191929):0.08367):0.063136):0.112066):0.040109):0.01913):0.018817):0.129579):0.027688,(((Cyrtodactylus_tibetanus:0.233137,Cyrtodactylus_zhaoermii:0.233137):0.320952,(((Cyrtodactylus_battalensis:0.176653,Cyrtodactylus_chamba:0.176653):0.038985,(Cyrtodactylus_himalayanus:0.18346,Cyrtodactylus_lawderanus:0.18346):0.032178):0.338451):0.061403,(((Cyrtodactylus_russelli:0.096623,

Cyrtodactylus_slowinskii:0.096623):0.36626,(Cyrtodactylus_fasciolatus:0.448682,(((Cyrtodactylus_annandalei:0.126573,Cyrtodactylus_feae:0.126573):0.250995,(Cyrtodactylus_sp_Khelong:0.260491,(Cyrtodactylus_gubernatoris:0.171309,Cyrtodactylus_sp_Sikkim:0.171309):0.089182):0.117077):0.040536,((Cyrtodactylus_cayuensis:0.036395,Cyrtodactylus_sp_Glow:0.036395):0.32851,(Cyrtodactylus_brevidactylus:0.336078,((Cyrtodactylus_kazirangaensis:0.228651,((Cyrtodactylus_ayeyarwadyensis:0.09184,Cyrtodactylus_tripuraensis:0.09184):0.097593,(Cyrtodactylus_khasiensis:0.161943,(Cyrtodactylus_guwahatiensis:0.06199,Cyrtodactylus_septentrionalis:0.06199):0.099953):0.027489):0.039219):0.086295,(Cyrtodactylus_sp_CHNG:0.300127,(Cyrtodactylus_nagalensis:0.255779,(Cyrtodactylus_gansi:0.239276,(Cyrtodactylus_jaintiaensis:0.206237,(Cyrtodactylus_sp_Mizoram:0.09114,Cyrtodactylus_montanus:0.09114):0.115096):0.033039):0.016503):0.044347):0.014819):0.021132):0.028826):0.0532):0.030577):0.014201):0.087908,((Cyrtodactylus_jarujini:0.326911,(Cyrtodactylus_angularis:0.295762,Cyrtodactylus_chanhomeae:0.295762):0.03115):0.165282,(((Cyrtodactylus_philippinicus:0.333988,(Cyrtodactylus_paradoxus:0.007877,Cyrtodactylus_chrysopylos:0.007877):0.326111):0.047213,((Cyrtodactylus_jellesmae:0.311848,(Cyrtodactylus_sadlieri:0.233526,Cyrtodactylus_sp_Timor:0.233526):0.078323):0.041523,(Cyrtodactylus_quadrivirgatus:0.328104,(Cyrtodactylus_rubidus:0.293205,(Cyrtodactylus_tiomansensis:0.242627,(Cyrtodactylus_semenanjungensis:0.060939,Cyrtodactylus_adleri:0.060939):0.181687):0.050578):0.0349):0.025267):0.02783):0.075856,((Cyrtodactylus_triedra:0.402873,(Cyrtodactylus_deccanensis:0.29326,Cyrtodactylus_collegalensis:0.29326):0.109614):0.036267,(((Cyrtodactylus_bintangtinggi:0.141595,Cyrtodactylus_pulchellus:0.141595):0.233879,(Cyrtodactylus_elok:0.21711,Cyrtodactylus_interdigitalis:0.21711):0.158365):0.042013,((Cyrtodactylus_hontreensis:0.242286,Cyrtodactylus_intermedius:0.242286):0.156054,((Cyrtodactylus_novaeguineae:0.296774,(Cyrtodactylus_loriae:0.245333,Cyrtodactylus_sermowaiensis:0.245333):0.051441):0.065898,(Cyrtodactylus_tigroides:0.283221,(Cyrtodactylus_peguensis:0.223462,Cyrtodactylus_oldhami:0.223462):0.059758):0.079451):0.035668):0.019148):0.021653):0.017917):0.035136):0.058598):0.064701):0.070631):0.046444):0.061204):0.0198):0.011318);

Megophryidae

((((((((((((((((((Megophrys_sangzhiensis:0.023862,Megophrys_spinata:0.023862):0.024713,Megophrys_binlingensis:0.048575):0.020433,(Megophrys_binchuanensis:0.055068,Megophrys_omeimontis:0.055068):0.013941):0.014207,Megophrys_jingdongensis:0.083215):0.011967,Megophrys_palpebralespinosa:0.095182):0.01349,Megophrys_wuliangshanensis:0.108672):0.016082,Megophrys_daweimontis:0.124755):0.03689,Megophrys_minor:0.161645):0.017186,(((Megophrys_brachykolos:0.067479,Megophrys_lini:0.067479):0.021585,Megophrys_jinggangensis:0.089064):0.021281,(Megophrys_boettgeri:0.023198,Megophrys_huangshanensis:0.023198):0.087147):0.013915,((Megophrys_baolongensis:0.047318,Megophrys_wushanensis:0.047318):0.037967,Megophrys_tuberogranulatus:0.085286):0.038974):0.054571):0.057888,(Ophryophryne_hansi:0.103829,Ophryophryne_microstoma:0.103829):0.13289):0.020592,(Megophrys_pachyproctus:0.129493,Megophrys_vegrandis:0.129493):0.127818):0.025881,((((((((Megophrys_mangshanensis:0.034481,Megophrys_maosonensis:0.034481):0.050702,Megophrys_major:0.085183):0.01744,Megophrys_flavipunctata:0.102623):0.013694,(Megophrys_glandulosa:0.086287,Megophrys_periosa:0.086287):0.030029):0.016793,(((Megophrys_medogensis:0.048168,Megophrys_robusta:0.048168):0.050447,Megophrys_zhangi:0.098615):0.021228,Megophrys_himalayana:0.119843):0.013266):0.0285,Megophrys_oreocrypta:0.16161):0.043168,(((Megophrys_ancrae:0.105861,Megophrys_serchhipii:0.10

5861):0.02312,(Megophrys_oropedion:0.101222,Megophrys_zunhebotensis:0.101222):0.027759):0.035818,Megophrys_megacephala:0.164799):0.039978):0.02118,Megophrys_parva:0.225957):0.032499,Megophrys_aceras:0.258456):0.024736):0.021564,(((Borneophrys_edwardinae:0.101334,Megophrys_ligayae:0.101334):0.048001,Megophrys_nasuta:0.149335):0.042604,Megophrys_stejnegeri:0.191939):0.086514,Megophrys_montana:0.278452):0.026303):0.015893,(((Megophrys_gigantica:0.050284,Megophrys_shapingensis:0.050284):0.029825,Megophrys_wawuensis:0.080108):0.186514,(Brachytarsophrys_carinense:0.083221,Brachytarsophrys_feae:0.083221):0.183401):0.054026):0.101913,((((((((Scutigera_boulengeri:0.011197,Scutigera_mammatus:0.011197):0.040164,Scutigera_liupanensis:0.051360009262562):0.010158,Scutigera_tuberculatus:0.061519):0.01181,Scutigera_glandulatus:0.073329):0.03839,Scutigera_occidentalis:0.111719):0.015692,(((Scutigera_nyingchiensis:0.050736,Scutigera_gongshanensis:0.050736):0.023991,Scutigera_spinosus:0.074728):0.029566,Scutigera_nepalensis:0.104294):0.010076,Scutigera_sikkimensis:0.11437):0.013042):0.015264,(Scutigera_chintingensis:0.111392,Scutigera_ningshanensis:0.111392):0.031283):0.055006,Scutigera_wuguanfui:0.197682):0.098171,(((Leptobrachium_hainanense:0.05584,Leptobrachium_ngoehense:0.05584):0.058829,Leptobrachium_banae:0.11467):0.103629,((Leptobrachium_boringii:0.085528,Leptobrachium_huashen:0.085528):0.095653,Leptobrachium_bompu:0.181181):0.037118):0.038042,((Leptobrachium_hasseltii:0.09162,Leptobrachium_hendricksoni:0.09162):0.105253,Leptobrachium_smithi:0.196873):0.059468):0.039511):0.059477,(Leptolalax_oshanensis:0.160979,Leptolalax_ventripunctatus:0.160979):0.194351):0.067232);

Pareidae

(((((((Pareas_formosensis:0.050645,Pareas_hamptoni:0.050645):0.231222995761871,((Pareas_atayal:0.111048,Pareas_iwasakii:0.111048):0.026257,Pareas_komaii:0.137305):0.144562):0.129184,((Pareas_boulengeri:0.182013,Pareas_chinensis:0.182013):0.155858,Pareas_stanleyi:0.337871):0.07318):0.044368,Pareas_margaritophorus:0.455418998137474):0.057758,Pareas_monticola:0.513178002717972):0.08866,((Pareas_carinatus:0.377818,Pareas_nuchalis:0.377818):0.154372,Aplopeltura_boa:0.532191):0.069647):0.051149,((Asthenodipsas_laevis:0.136827,Asthenodipsas_malaccanus:0.136827):0.420271,(Asthenodipsas_tropidonotus:0.185642,Asthenodipsas_vertrebralis:0.185642):0.371455):0.095889);

Ranidae

((((((((((((((((Hylarana_indica:0.046459,Hylarana_sreeni:0.046459):0.02851,Hylarana_caesari:0.074969):0.055357,Hylarana_magna:0.130326):0.013426,Hylarana_montana:0.143753):0.021781,Hylarana_flavescens:0.165534):0.020837,((Hylarana_aurantiaca:0.080828,Hylarana_urbis:0.080828):0.017451,(Hylarana_doni:0.065386,Hylarana_intermedia:0.065386):0.032892):0.088092):0.069762,(Hylarana_serendipi:0.192168,Hylarana_temporalis:0.192168):0.063965):0.057653,((((Hylarana_aurata:0.078696,Hylarana_volkerjane:0.078696):0.021944,Hylarana_supragrisea:0.10064):0.023581,Hylarana_milneana:0.12422):0.047927,(Hylarana_jimiensis:0.109959,Hylarana_arfaki:0.109959):0.062188):0.008603,(Hylarana_kreffti:0.05816,Hylarana_papua:0.05816):0.12259):0.016537,((Hylarana_garritor:0.098975,Hylarana_waliesia:0.098975):0.075671,Hylarana_daemeli:0.174645):0.022642):0.116499):0.014599,(((Hylarana_mortenseni:0.007282,Hylarana_faber:0.007282):0.219971995563745,(((Hylarana_maosonensis:0.038402,Hylarana_spinulosa:0.038402):0.029705,Hylarana_latouchii:0.068107):0.092623,Hylarana_cubitalis:0.16073):0.066525):0.04402,((Hylarana_bahuvistara:0.014455,Hylarana_malabaricus:0.014455):0.130477,Hylarana_nigrovittat

a:0.144932):0.040448,Hylarana_gracilis:0.18538):0.085894):0.038557,((Hylarana_attigua:0.154507,Hylarana_milleti:0.154507):0.071973,Hylarana_galamensis:0.22648):0.083352):0.018553):0.022978,(((Pelophylax_lateralis:0.171086,Hylarana_miopus:0.171086):0.070929,Hylarana_guentheri:0.242014):0.033688,Hylarana_humeralis:0.275702):0.027585,((Hylarana_erythraea:0.054623,Hylarana_tytleri:0.054623):0.138927,(Hylarana_macroductyla:0.116423,Hylarana_taipehensis:0.116423):0.077127):0.109737):0.048075):0.007304,(((((((Hylarana_grandocula:0.038167,Hylarana_similis:0.038167):0.037682,Hylarana_melanomenta:0.075849):0.057434,(Hylarana_mangyanum:0.057307,Hylarana_moellendorffi:0.057307):0.075976):0.074486,(Hylarana_picturata:0.091376,Hylarana_signata:0.091376):0.116392):0.026361,(Hylarana_banjarana:0.192993,Hylarana_siberu:0.192993):0.041137):0.033209,(((Hylarana_glandulosa:0.006796,Hylarana_baramica:0.006796):0.059468,Hylarana_laterimaculata:0.066264):0.134461,Hylarana_rawa:0.200725):0.066613):0.024167,(((Hylarana_amicola:0.090667,Hylarana_darlingi:0.090667):0.053301,Hylarana_albolabris:0.143968):0.056886,Hylarana_lepus:0.200854):0.090651):0.04151,(((((((Hylarana_chalconota:0.018626,Hylarana_megalonesa:0.018626):0.006451,Hylarana_eschatia:0.025076):0.038002,Hylarana_parvaccola:0.063079):0.082078,Hylarana_mocquardi:0.145156):0.047518,Hylarana_rufipes:0.192674):0.092409,Hylarana_nicobariensis:0.285083):0.047932):0.025652):0.00894,Hylarana_leptoglossa:0.367606):0.011184,((Babina_chapaensis:0.106296,Babina_okinavana:0.106296):0.067393,Babina_pleuraden:0.173688):0.205102):0.015981,((((Glandirana_emeljanovi:0.139745,Glandirana_rugosa:0.139745):0.05985,Glandirana_tientaiensis:0.199595):0.098721,(Sanguirana_luzonensis:0.1667,Sanguirana_sanguinea:0.1667):0.131616):0.046996,Abavorana_luctuosa:0.345312):0.049459):0.013845,((((((((Odorrana_amamiensis:0.03513,Odorrana_narina:0.03513):0.031073,Odorrana_supranarina:0.066203):0.052859,(Odorrana_swinhoana:0.044523,Odorrana_utsunomiyaorum:0.044523):0.074539):0.05008,(((Odorrana_exiliversabilis:0.043825,Odorrana_nasuta:0.043825):0.066413,Odorrana_tormota:0.110238):0.02447,(Odorrana_nasica:0.053895,Odorrana_versabilis:0.053895):0.080813):0.034434):0.026583,((((Odorrana_aureola:0.045005,Odorrana_livida:0.045005):0.030096,Odorrana_chloronota:0.075101):0.015305,(Odorrana_graminea:0.078031,Odorrana_leporipes:0.078031):0.012376):0.04022,Odorrana_hosii:0.130627):0.041131,(Odorrana_morafkai:0.139727,Odorrana_banaorum:0.139727):0.032031):0.023967):0.017045,Odorrana_tiannanensis:0.21277):0.026335,((((Odorrana_hejiangensis:0.013795,Odorrana_nanjiangensis:0.013795):0.055324,Odorrana_bacboensis:0.069119):0.051193,(Odorrana_fengkaiensis:0.02341,Odorrana_hainanensis:0.02341):0.096902):0.02612,(Odorrana_huanggangensis:0.044936,Odorrana_tianmuyii:0.044936):0.101496):0.024116,Odorrana_schmackeri:0.170548):0.068557):0.016412,((((Odorrana_andersonii:0.023563,Odorrana_jingdongensis:0.023563):0.019753,Odorrana_junlianensis:0.0433159995943308):0.022785,Odorrana_margaretae:0.066101):0.013762,Odorrana_kuangwuensis:0.079863):0.055335,(Odorrana_mutschmanni:0.084499,Odorrana_wuchuanensis:0.084499):0.050699):0.037918,(((Odorrana_anlungensis:0.075369,Odorrana_yizhangensis:0.075369):0.015689,Odorrana_lungshengensis:0.091058):0.05051,Odorrana_lipuensis:0.141567):0.031549):0.046597,(Odorrana_chapaensis:0.145767,Odorrana_geminata:0.145767):0.073946):0.035804):0.024355,Odorrana_ishikawae:0.279873):0.023115,Odorrana_absita:0.302988):0.079028,(((Rana_catesbeianus:0.161843,Rana_septentrionalis:0.161843):0.096886,(Rana_pipiens:0.177412,Rana_tlaloci:0.177412):0.081318):0.058739,(Rana_kukunoris:0.209132,Rana_temporaria:0.209132):0.108336):0.024366,Pseudorana_weiningensis:0.341834):0.040182):0.0266):0.026761,((Pelophylax_ridibundus:0.267273,Pelophylax_saharicus:0.267273):0.121221,Pelophylax_nigromaculatus:0.388494):0.046882):0.011757,((((((((Amolops_iriodes:0.019238,Amolops_mengyangensis:0.019238):0.01328,

Amolops_daorum:0.032518):0.055072,(Amolops_akhaorum:0.069636,Amolops_archotaphus:0.069636):0.017954):0.037051,(((Amolops_compotrix:0.040044,Amolops_cucae:0.040044):0.039348,Amolops_vitreus:0.079392):0.032659,Amolops_chunganensis:0.112051):0.012591):0.012894,((Amolops_bellulus:0.058083,Amolops_nyingchiensis:0.058083):0.052814,Amolops_aniqiaoensis:0.110896):0.026639):0.033933,((((Amolops_jinjiangensis:0.021779,Amolops_tuberodepressus:0.021779):0.017018,Amolops_loloensis:0.038797):0.013546,Amolops_mantzorum:0.052343):0.07308,Amolops_liangshanensis:0.059651):0.057053,(Amolops_granulosus:0.008827,Amolops_lifanensis:0.008827):0.107877):0.027541,Amolops_chayuensis:0.144245):0.027223):0.024131,((Amolops_viridimaculatus:0.076585,Amolops_beibengensis:0.076585):0.043919,Amolops_medogensis:0.120505):0.075094):0.023611,(((Amolops_sp.:0.070998,Amolops_gyirongensis:0.070998):0.023378,Amolops_wangyufani:0.094376):0.012049,Amolops_deng:0.106426):0.112784):0.114817,((((Amolops_indoburmanensis:0.115254,Amolops_afghanus:0.115254):0.064079,Amolops_marmoratus:0.179333):0.034874,Amolops_yarlungzangbo:0.214207):0.038116,Amolops_panghai:0.252323):0.081704):0.018944,(Amolops_larutensis:0.259894,Amolops_cremnobatus:0.259894):0.093076):0.025588,((((Amolops_ricketti:0.054304,Amolops_albispinus:0.054304):0.049632,Amolops_wuyiensis:0.103936):0.133322,(Amolops_daiyunensis:0.079541,Amolops_hongkongensis:0.079541):0.157717):0.065708,(Amolops_hainanensis:0.140627,Amolops_torrentis:0.140627):0.16234):0.041795,Amolops_spinapectoralis:0.344761):0.033797):0.068576):0.016422,((((Meristogenys_dyscritus:0.068077,Meristogenys_maryatiae:0.068077):0.018227,Meristogenys_stigmachilus:0.086304):0.011159,Meristogenys_poecilus:0.097463):0.011106,(Meristogenys_amoropalamus:0.084831,Meristogenys_stenocephalus:0.084831):0.023738):0.231069,(Huia_cavitympanum:0.0935900013751984,Huia_masonii:0.093589):0.246048):0.027229,((Clinotarsus_alticola:0.147843,Clinotarsus_curtipes:0.147843):0.16937,Huia_melasma:0.317213):0.049653):0.09669):0.05106,((Stauroids_guttatus:0.133828,Stauroids_natator:0.133828):0.049804,Stauroids_latopalmatum:0.183631):0.330985);

Rhacophoridae

((((((((((((((((((((Raorchestes_luteolus:0.039224,Raorchestes_travancoricus:0.039224):0.078659,(Raorchestes_agasthyaensis:0.057299,Raorchestes_kadalarensis:0.057299):0.060583):0.011013,Raorchestes_chlorosomma:0.128896):0.023342,(((Raorchestes_kaikatti:0.045451,Raorchestes_kakachi:0.045451):0.036441,Raorchestes_sushili:0.081892):0.035215,Raorchestes_anili:0.117107):0.03513):0.023252,(((Raorchestes_beddomii:0.051797,Raorchestes_theuerkaufi:0.051797):0.058988,Raorchestes_munnarensis:0.110785):0.009511,Raorchestes_resplendens:0.120296):0.0232,Raorchestes_dubois:0.143497):0.031993):0.016945,(((Raorchestes_chalazodes:0.030836,Raorchestes_flaviocularis:0.030836):0.019813,Raorchestes_ochlandrae:0.050649):0.105645,(Raorchestes_mahari:0.04021,Raorchestes_uthamani:0.04021):0.116084):0.036141):0.040888,((Raorchestes_blandus:0.147332,Raorchestes_arceos:0.147332):0.037926,Raorchestes_chotta:0.185257):0.048065):0.023935,((((Raorchestes_glandulosus:0.07336,Raorchestes_jayarami:0.07336):0.026669,Raorchestes_bobingeri:0.100029):0.029463,Raorchestes_akroparallagi:0.129492):0.03997,(Raorchestes_graminirupes:0.080313,Raorchestes_johnceei:0.080313):0.089149):0.012694,Raorchestes_crustai:0.182156):0.038448,Raorchestes_nerostagona:0.220604):0.036653):0.035286,((((((((Raorchestes_menglaensis:0.056806,Raorchestes_parvulus:0.056806):0.027918,Raorchestes_gryllus:0.084724):0.01057,Raorchestes_longchuanensis:0.095295):0.039324,((Raorchestes_bombayensis:0.069776,Raorchestes_leucolatus:0.069776):0.019843,Raorchestes_tuberohumerus:0.089619):0.044999):

0.024457,Raorchestes_ghatei:0.159075):0.034731,((Raorchestes_hassanensis:0.051004,Raorchestes_ponmudi:0.051004):0.041384,Raorchestes_flaviventris:0.092389):0.101418):0.0121,Raorchestes_indigo:0.205906):0.020747,Raorchestes_echinatus:0.226654):0.011413,((((Raorchestes_aureus:0.057913,Raorchestes_lechiya:0.057913):0.055562,Raorchestes_signatus:0.113475):0.022165,(Raorchestes_chromasynchysi:0.060257,Raorchestes_silentvalley:0.060257):0.075383):0.015682,(Raorchestes_primarrumpfi:0.055661,Raorchestes_tinniens:0.055661):0.09566):0.043736,(((Raorchestes_charius:0.065508,Raorchestes_honnametti:0.065508):0.042623,Raorchestes_griet:0.108131):0.019773,Raorchestes_coonoorensis:0.127903):0.046938,Raorchestes_markii:0.174842):0.020216):0.043009):0.054477):0.033894,(((((((Pseudophilautus_amboli:0.01198,Pseudophilautus_leucorhinus:0.01198):0.03794,Pseudophilautus_wynaadensis:0.04992):0.036579,Pseudophilautus_kani:0.0865):0.061954,Pseudophilautus_folicola:0.148454):0.035476,((Pseudophilautus_limbus:0.132027,Pseudophilautus_zorro:0.132027):0.037128,(Pseudophilautus_schneideri:0.085003,Pseudophilautus_simba:0.085003):0.084152):0.014775):0.027367,((((Pseudophilautus_asankai:0.024861,Pseudophilautus_hoffmanni:0.024861):0.074865,Pseudophilautus_pleurotaenia:0.099726):0.038674,Pseudophilautus_ocularis:0.1384):0.02627,(Pseudophilautus_decoris:0.030508,Pseudophilautus_mittermeieri:0.030508):0.134161):0.017971,Pseudophilautus_tanu:0.18264):0.028657):0.023768,(((((((Pseudophilautus_hankeni:0.032732,Pseudophilautus_dilmah:0.032732):0.01603,Pseudophilautus_schmarda:0.048763):0.055179,Pseudophilautus_lunatus:0.103941):0.017938,Pseudophilautus_sarasinorum:0.12188):0.008333,((Pseudophilautus_alto:0.089686,Pseudophilautus_stuarti:0.089686):0.017031,Pseudophilautus_popularis:0.106717):0.023495):0.023988,Pseudophilautus_cavirostris:0.154201):0.011903,Pseudophilautus_bambaradeniyai:0.166103):0.03241,((Pseudophilautus_mooreorum:0.043738,Pseudophilautus_poppiae:0.043738):0.075407,Pseudophilautus_stellatus:0.119145):0.079368):0.036553):0.015802,((Pseudophilautus_microtympanum:0.058305,Pseudophilautus_steineri:0.058305):0.065143,Pseudophilautus_papillosus:0.123448):0.12742):0.07557):0.010244,Mercurana_myristicapalustris:0.336682):0.027413,Beddomixalus_bijui:0.364095):0.040705,((((Kurixalus_baliogaster:0.020296,Kurixalus_bisacculus:0.020296):0.035805,Kurixalus_odontotarsus:0.056101):0.059284,(Kurixalus_naso:0.05482,Kurixalus_verrucosus:0.05482):0.060564):0.070441,((Kurixalus_banaensis:0.114474,Kurixalus_viridescens:0.114474):0.051778,Kurixalus_motokawai:0.166252):0.019573):0.051377,(((Kurixalus_berylliniris:0.069776,Kurixalus_effingeri:0.069776):0.022275,Kurixalus_wangi:0.09205):0.06831,Kurixalus_idiootocus:0.160361):0.076842):0.057831,Kurixalus_appendiculatus:0.295033):0.109766):0.009731,(Nasutixalus_jerdonii:0.179873,Nasutixalus_medogensis:0.179873):0.234658):0.017578,((((((((Philautus_juliandringi:0.087469,Philautus_umbra:0.087469):0.023355,Philautus_mjobergi:0.110824):0.032214,(Philautus_amoenus:0.098163,Philautus_nephophilus:0.098163):0.044875):0.031373,Philautus_kakipanjang:0.174411):0.019853,(((Philautus_acutirostris:0.014316,Philautus_worcesteri:0.014316):0.099187,Philautus_surdus:0.113502):0.072107,(Philautus_petersi:0.139612,Philautus_refugii:0.139612):0.045998):0.008654):0.021992,(Philautus_davidlabangi:0.063086,Philautus_disgregus:0.063086):0.153169):0.018102,(((Philautus_abditus:0.091823,Philautus_vermiculatus:0.091823):0.038435,(Philautus_acutus:0.055953,Philautus_aurantium:0.055953):0.074305):0.013763,(Philautus_bunitus:0.021947,Philautus_kerangae:0.021947):0.122074):0.090337):0.013103,Philautus_aurifasciatus:0.247461):0.011503,(Philautus_macroscelis:0.142054,Philautus_everetti:0.142054):0.11691):0.009721,((Philautus_hosii:0.103654,Philautus_ingeri:0.103654):0.1086,Philautus_tectus:0.212255):0.05643):0.046021,Philautus_cornutus:0.314705):0.117404):0.021569,((((((((((((Rhacophorus_dugritei:0.012047,Rhacophorus_hui:0.012047):0.026007,Rhacophorus_minimus:0.038055):0.

005323,Rhacophorus_hongchibaensis:0.043378):0.012292,((Rhacophorus_hungfuensis:0.019356, Rhacophorus_wui:0.019356):0.026606,Rhacophorus_puerensis:0.045962):0.009708):0.021342,Rhacophorus_schlegelii:0.077012):0.015215,((Rhacophorus_duboisii:0.0209,Rhacophorus_omeimontis:0.0209):0.045188,Rhacophorus_burmanus:0.066088):0.026139):0.011588,(Rhacophorus_smaragdinus:0.083406,Rhacophorus_arboreus:0.083406):0.020409):0.016942,((Rhacophorus_lishuensis:0.021939,Rhacophorus_zhoukaiyae:0.021939):0.039123,Rhacophorus_dorsoviridis:0.061062):0.059695):0.010891,Rhacophorus_moltrechti:0.131648):0.026436,Rhacophorus_feae:0.158085):0.013122,((Rhacophorus_nigropunctatus:0.071193,Rhacophorus_pinglongensis:0.071193):0.03698, Rhacophorus_chenfui:0.108173):0.063033):0.01857,Rhacophorus_dennysi:0.189777):0.05424,Rhacophorus_vampyrus:0.244017):0.044545,(Rhacophorus_achantharrhena:0.085892,Rhacophorus_dulitensis:0.085892):0.20267):0.033881,((((Rhacophorus_belalongensis:0.051207,Rhacophorus_gauni:0.051207):0.011577,Rhacophorus_gadingensis:0.062784):0.024186,Rhacophorus_bimaculatus:0.08697):0.041157,(Rhacophorus_angulirostris:0.084695,Rhacophorus_penanorum:0.084695):0.043432):0.14018,(((Rhacophorus_fasciatus:0.017671,Rhacophorus_harrissoni:0.017671):0.025379,Rhacophorus_rufipes:0.04305):0.165251,Rhacophorus_monticola:0.208301):0.034643,Rhacophorus_cyanopunctatus:0.242944):0.025363):0.054136):0.030746,(((((((Rhacophorus_norhayatii:0.060592,Rhacophorus_reinwardti:0.060592):0.030747,Rhacophorus_borneensis:0.091339):0.038516,Rhacophorus_bipunctatus:0.129854):0.020592,(Rhacophorus_kio:0.078887,Rhacophorus_helena:0.078887):0.071559):0.014421,Rhacophorus_rhodopus:0.164866999091148):0.084251,((Rhacophorus_malabaricus:0.103441,Rhacophorus_pseudomalabaricus:0.103441):0.071118,Rhacophorus_pardalis:0.174559):0.043236,(Rhacophorus_annamensis:0.10372,Rhacophorus_exechopygus:0.10372):0.114075):0.031324):0.022998,((Rhacophorus_bengkuluensis:0.120572,Rhacophorus_catamitus:0.120572):0.084479,(Rhacophorus_indonesiensis:0.165388,Rhacophorus_robertingeri:0.165388):0.039663):0.034265,Rhacophorus_poecilnotus:0.239316):0.0328):0.015419,((((Rhacophorus_orlovi:0.092067,Rhacophorus_tuberculatus:0.092067):0.102882,Rhacophorus_calcanus:0.194949):0.019419,(Rhacophorus_baluensis:0.163841,Rhacophorus_nigropalmatus:0.163841):0.050528):0.019066,Rhacophorus_translineatus:0.233435):0.016366,Rhacophorus_lateralis:0.249801):0.037735):0.065652):0.057508,((((((((Polypedates_leucomystax:0.028919,Polypedates_teraiensis:0.028919):0.021283,Polypedates_megacephalus:0.050201):0.011762,Polypedates_impresus:0.061964):0.060358,(Polypedates_braueri:0.063324,Polypedates_mutus:0.063324):0.036733,Polypedates_macrodis:0.100056):0.022266):0.024021,(Polypedates_cruciger:0.091527,Polypedates_maculatus:0.091527):0.054816):0.014417,Polypedates_discantus:0.16076):0.017091,Polypedates_pseudocruciger:0.177851):0.023157,Polypedates_colletti:0.201008):0.069579,Polypedates_otlophus:0.270587):0.02932,((Taruga_fastigo:0.05932,Taruga_longinasus:0.05932):0.022993,Taruga_eques:0.082313):0.217594):0.069435,((Ghatixalus_asterops:0.139811,Ghatixalus_variabilis:0.139811):0.041462,Ghatixalus_magnus:0.181274):0.188069):0.023127,((Feihyla_hansena:0.143975,Feihyla_vittata:0.143975):0.157705,Feihyla_palpebralis:0.30168):0.034161,Feihyla_kajau:0.335841):0.056629):0.018227):0.011945,((Chiromantis_petersii:0.08395,Chiromantis_xerampelina:0.08395):0.094454,Chiromantis_rufescens:0.178403):0.091318,(Chiromantis_doriae:0.121793,Chiromantis_nongkhorensis:0.121793):0.147928):0.152921):0.011585,Gracixalus_medogensis:0.434226):0.019451):0.01693,((((Gracixalus_quangi:0.053458,Gracixalus_supercornutus:0.053458):0.043391,Gracixalus_gracilipes:0.096849):0.032292,Gracixalus_seesom:0.129141):0.048054,Gracixalus_quyeti:0.177194):0.078506,Gracixalus_lumarius:0.2557):0.046469,((Gracixalus_nonggangensis:0.052751,Gracixalus_waza:0.052751):0.063093,Gracixalus_sapaensis:0.115844):0.014359,(

Gracixalus_jinxiuensis:0.109225,Gracixalus_jinggangensis:0.109225):0.020978):0.171966):0.168439):0.009446,((((((((Theلودerma_baibungense:0.0916459981703758,Theلودerma_pyaukkya:0.091646):0.028175,Theلودerma_asperum:0.119821):0.029204,Theلودerma_licin:0.149025):0.009238,Theلودerma_petilum:0.158264):0.030163,Theلودerma_albopunctatum:0.188427):0.051885,(Theلودerma_phrynoderma:0.129856,Theلودerma_ryabovi:0.129856):0.028084,Theلودerma_moloch:0.15794):0.082371):0.042025,Theلودerma_leporosum:0.282337):0.026304,((((((((Theلودerma_laeve:0.121659,Theلودerma_truongsonense:0.121659):0.029374,Theلودerma_nebulosum:0.151033):0.036269,Theلودerma_anna:0.187302):0.057331,(Theلودerma_bicolor:0.151719,Theلودerma_corticale:0.151719):0.053409,Theلودerma_gordoni:0.205128):0.039505):0.016924,Theلودerma_rhododiscus:0.261557):0.013489,Theلودerma_palliatum:0.275046):0.014293,(Theلودerma_lateriticum:0.145131,Theلودerma_lacustrinum:0.145131):0.144208):0.019302):0.022418,(Theلودerma_horridum:0.08133,Theلودerma_stellatum:0.08133):0.055693,Theلودerma_vietnamense:0.137023):0.194036):0.031181,(Nyxixalus_pictus:0.204058,Nyxixalus_spinosus:0.204058):0.046637,Nyxixalus_margaritifer:0.250696):0.111544):0.117813):0.019894,((((Liuixalus_calcarius:0.022565,Liuixalus_ocellatus:0.022565):0.011682,Liuixalus_romeri:0.034247):0.009876,Liuixalus_shiwandashan:0.044123):0.014417,Liuixalus_feii:0.05854):0.012924,Liuixalus_hainanus:0.071464):0.428483):0.044736,(((Buergeria_oxyccephala:0.178761,Buergeria_robusta:0.178761):0.054573,Buergeria_buergeri:0.233333):0.097542,Buergeria_japonica:0.330875):0.213808);

Scincidae

((Typhlosaurus_lomia:0.203951,Acontias_meleagris:0.203951):0.508416,((((Eumeces_schneideri:0.233269,Scincus_mitranus:0.233269):0.238766,(Ophiomorus_punctatissimus:0.418765,Eurylepis_taniolata:0.418765):0.053269):0.036706,(Chalcides_ocellatus:0.118784,(Chalcides_sexlineatus:0.071672,Chalcides_viridanus:0.071672):0.047112):0.286159,(Feylinia_polylepis:0.307215,Scelotes_mirus:0.307215):0.07393,(Madascincus_melanopleura:0.315113,Amphiglossus_reticulatus:0.315113):0.066031):0.023799):0.103797):0.038083,((Brachymeles_miriamae:0.285945,(Brachymeles_bonitae:0.16073,(Brachymeles_talinis:0.109124,(Brachymeles_gracilis:0.077319,Brachymeles_bicolor:0.077319):0.031805):0.051607):0.125214):0.233641,(Plestiodon_chinensis:0.266953,((Plestiodon_fasciatus:0.051654,Plestiodon_kishinouyei:0.051654):0.139112,(Plestiodon_laticeps:0.142318,(Plestiodon_egregius:0.113775,Plestiodon_skiltonianus:0.113775):0.028543):0.048449):0.045382,(Plestiodon_quadri-lineatus:0.202906,(Plestiodon_stimpsonii:0.097382,(Plestiodon_elegans:0.08119,(Plestiodon_marginatus:0.051842,Plestiodon_tamdaoensis:0.051842):0.029348):0.016192):0.043739,(Plestiodon_barbouri:0.125793,(Plestiodon_latiscutatus:0.107976,(Plestiodon_japonicus:0.025624,(Plestiodon_capito:0.007416,Plestiodon_tunganus:0.007416):0.018208):0.082352):0.017817):0.015329):0.061785):0.033242):0.030805):0.252632):0.027238):0.066988,((Ristella_rurkii:0.54598,(Tribolonotus_novaeguineae:0.524623,((Mesoscincus_schwartzei:0.419002,(Lamprolepis_smaragdina:0.341903,((Lygosoma_koratense:0.1939,Lygosoma_quadupes:0.1939):0.109336,(Lygosoma_albopunctatum:0.253215,(Lygosoma_punctata:0.227771,(Lygosoma_bowringii:0.190314,Lygosoma_lineolatum:0.190314):0.037457):0.025443):0.050021):0.038667):0.077099):0.056996,((Emoia_caeruleocauda:0.249456,(Emoia_cyanura:0.187752,Emoia_atrocostata:0.187752):0.061704):0.110098,((Leptosiphos_vigintiserierum:0.290563,(Carlia_fusca:0.164809,Lygisaurus_novaeguineae:0.164809):0.125754):0.032192,(Eugongylus_rufescens:0.294058,(Nannoscincus_mariei:0.230909,(Oligosoma_lichenigera:0.160789,Oligosoma_aeneum:0.160789):0.07012):0.06315):0.028696):0.0368):0.116443):0.020624,((Tiliqua_scincoides:0.30919,Egernia_stokesi

i:0.30919):0.157675,(((Trachylepis_perrotetii:0.285623,Mabuya_mabouya:0.285623):0.04425,(Heremites_vittatus:0.197695,Heremites_auratus:0.197695):0.132178):0.030352,(Eutropis_dissimilis:0.304851,(Dasia_olivacea:0.232587,(Dasia_grisea:0.177753,Dasia_vittata:0.177753):0.054834):0.072265):0.055373):0.040968,(Eutropis_longicaudata:0.362188,((Eutropis_multifasciata:0.266171,(Eutropis_macrophthalma:0.149736,Eutropis_rudis:0.149736):0.116436):0.068925,(Eutropis_tytleri:0.325061,((Eutropis_macularia:0.036768,Eutropis_rugifera:0.036768):0.268144,((Eutropis_multicarinata:0.129777,(Eutropis_cumingi:0.088597,Eutropis_indepressa:0.088597):0.04118):0.140281,((Eutropis_carinata:0.198088,(Eutropis_beddomei:0.080887,(Eutropis_nagarjunensis:0.042418,Eutropis_trivittata:0.042418):0.038469):0.117201):0.056924,((Eutropis_bibronii:0.178977,Eutropis_quadricarinata:0.178977):0.058597,(Eutropis_madaraszi:0.185763,(Eutropis_allapallensis:0.104907,Eutropis_clivicola:0.104907):0.080856):0.051811):0.017438):0.015046):0.034854):0.020149):0.010034):0.027092):0.039005):0.065672):0.029756):0.028001):0.021358):0.032038,(Sphenomorphus_praesignis:0.527611,(((Asymblepharus_nyingchiensis:0.245778,Asymblepharus_medogensis:0.245778):0.157691,(Ablepharus_pannonicus:0.305691,(Asymblepharus_alaicus:0.246246,Asymblepharus_sp:0.246246):0.059445):0.097778):0.110728,(((Tropidophorus_baconi:0.206808,Tropidophorus_grayi:0.206808):0.122512,(Tropidophorus_cocincinensis:0.242411,Tropidophorus_microlepis:0.242411):0.086909):0.049632,(Tropidophorus_brookei:0.20076,(Tropidophorus_beccarii:0.153797,(Tropidophorus_misaminus:0.074171,Tropidophorus_partelloi:0.074171):0.079626):0.046962):0.178192):0.107143,((Isopachys_anguinoides:0.405989,(Tythoscincus_aesculeti cola:0.378345,(Sphenomorphus_stellatus:0.268706,((Tythoscincus_atrigularis:0.182867,Tythoscincus_hallieri:0.182867):0.044777,(Tythoscincus_parvus:0.14421,Sphenomorphus_buenloicus:0.14421):0.083434):0.041062):0.109638):0.027645):0.053339,((Larutia_seribuatensis:0.432162,(((Sphenomorphus_indicus:0.322728,Sphenomorphus_maculatus:0.322728004582405):0.049744,(Sphenomorphus_simus:0.3368,((Sphenomorphus_cyanolaemus:0.077137,Sphenomorphus_sabanus:0.077137):0.185154,(Sphenomorphus_multisquamatus:0.185532,Sphenomorphus_variegatus:0.185532):0.076759):0.074509):0.035672):0.051513,((Scincella_reevesii:0.376797,((Insulasaurus_arborens:0.233323,(Insulasaurus_wrighti:0.179217,Insulasaurus_victoria:0.179217):0.054106):0.106205,(Lipinia_pulchella:0.29429,(Lipinia_noctua:0.227152,Papuascincus_stanleyanus:0.227152):0.067138):0.045238):0.037269):0.022002,(Scincella_doriae:0.385144,(Lipinia_vittigera:0.364168,(Scincella_rupicola:0.351437,((Scincella_vandenburghi:0.258603,(Scincella_huanrenensis:0.092033,Scincella_tsinlingensis:0.092033):0.166569):0.065368,(Scincella_lateralis:0.279777,(Scincella_assata:0.198374,(Scincella_cherriei:0.092925,Scincella_potanini:0.0929250024995804):0.105449):0.081403):0.044194):0.027466):0.012731):0.020976):0.013655):0.025186):0.008177):0.012345,((Sphenomorphus_concinnatus:0.34042,(Sphenomorphus_melanopogon:0.298693,((Sphenomorphus_jobiensis:0.187414,Sphenomorphus_muelleri:0.187414):0.087727,((Sphenomorphus_solomonis:0.06082,Sphenomorphus_scutatus:0.06082):0.174739,(Sphenomorphus_fasciatus:0.097528,(Sphenomorphus_leptofasciatus:0.068629,(Sphenomorphus_cranei:0.029803,Sphenomorphus_mairdroni:0.029803):0.038826):0.028899):0.138031):0.039582):0.023552):0.041727):0.060049,(((Lerista_neander:0.258977,Ctenotus_labillardieri:0.258977):0.067384,((Anomalopus_swansoni:0.255416,Calyptotis_scutirostrum:0.255416):0.058513,(Hemiergis_peronii:0.279576,(Eulamprus_kosciuskoi:0.139008,Eulamprus_quoyii:0.139008):0.140568):0.034353):0.012431):0.056993,(Otosaurus_cumingi:0.358792,((Sphenomorphus_diwata:0.255039,(Sphenomorphus_acutus:0.241044,(Parvoscincus_steerei:0.159998,Parvoscincus_tagapayo:0.159998):0.081046):0.013996):0.042291,((Tropidophorus_berdmorei:0.188915,(Tropidophorus_laticutatus:0.091164,Tropidophorus_matsuii:

0.091164):0.097752):0.051102,((Tropidophorus_murphyi:0.107893,(Tropidophorus_baviensis:0.064144,Tropidophorus_hainanus:0.064144):0.043749):0.101941,(Tropidophorus_sinicus:0.185532,(Tropidophorus_robinsoni:0.123048,Tropidophorus_thai:0.123048):0.062483):0.024302):0.030184):0.057313):0.061462):0.024561):0.017115):0.044039):0.014821):0.026766):0.028104):0.013413):0.050408):0.035794):0.098555);

Viperidae

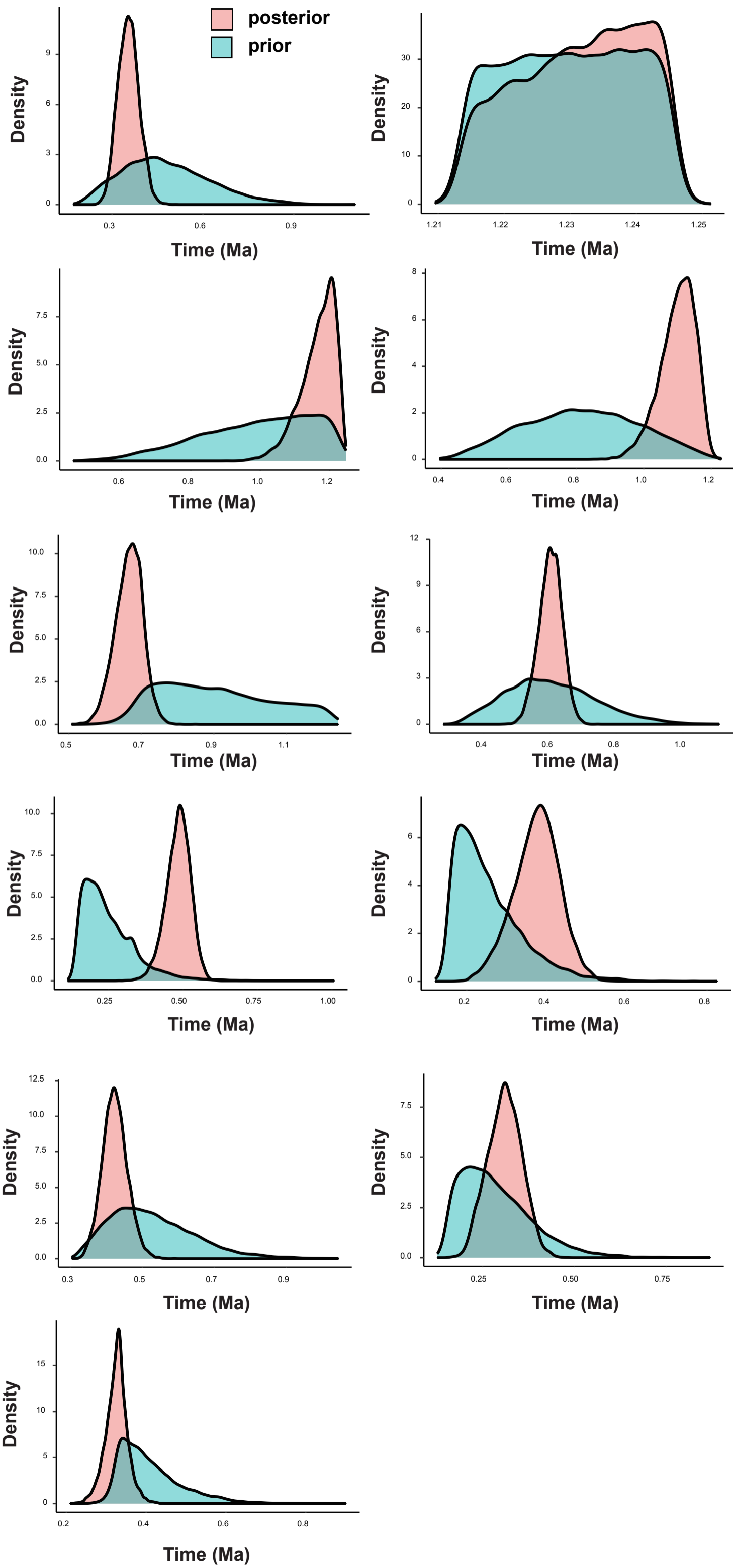
((((((((((((((Protobothrops_elegans:0.067677,Protobothrops_mucrosquamatus:0.067677):0.014036,(Protobothrops_maolanensis:0.050089,Protobothrops_trungkhanhensis:0.050089):0.031623):0.054702,(Protobothrops_flavoviridis:0.036487,Protobothrops_tokarensis:0.036487):0.099928):0.007474,(((Protobothrops_jerdonii:0.037299,Protobothrops_xiangchengensis:0.037299):0.05249,Protobothrops_dabieshanensis:0.089789):0.028843,Protobothrops_cornutus:0.118632):0.025257):0.042039,Protobothrops_mangshanensis:0.185928):0.026276,((Protobothrops_himalayanus:0.079082,Protobothrops_kaulbacki:0.079082):0.074663,Protobothrops_sieversorum:0.153745):0.058459):0.036404,(((Ovophis_convictus:0.129411,Ovophis_monticola:0.129411):0.043336,Ovophis_zayuensis:0.172747):0.010407,(Ovophis_makazayazaya:0.137348,Ovophis_tonkinensis:0.137348):0.045806):0.065454):0.030122,((((Gloydius_monticola:0.067493,Gloydius_huangi:0.067493):0.01537,Gloydius_rubromaculatus:0.082863):0.016442,(Gloydius_angusticeps:0.078024,Gloydius_strauchii:0.078024):0.021281):0.012634,(Gloydius_liupanensis:0.092725,Gloydius_qinlinensis:0.092725):0.019214):0.024424,((Gloydius_blohmhoffi:0.045877,Gloydius_tsushimaensis:0.045877):0.053494,(Gloydius_brevicaudus:0.018939,Gloydius_ussuriensis:0.018939):0.080432):0.036992):0.008804,((((Gloydius_intermedius:0.016254,Gloydius_shedaoensis:0.016254):0.018075,Gloydius_halys:0.034328):0.004653,Gloydius_stejnegeri:0.038982):0.007399,Gloydius_cognatus:0.046381):0.098785996981144):0.133563):0.021975,((((((((Bothrops_asper:0.088421,Bothrops_brazili:0.088421):0.035317,(Bothrops_erythromelas:0.091421,Bothrops_jararaca:0.091421):0.032318):0.011829,Bothrops_chloromelas:0.135568):0.022821,Bothrops_ammodytoides:0.158388):0.018907,Bothrops_pictus:0.177296):0.060457,(Atropoides_picadoi:0.143439,Cerrophidion_tzotzilorum:0.143439):0.04255,(Porthidium_ophryomegas:0.124876,Porthidium_yucatanicum:0.124876):0.061113):0.051763):0.013191,(((Mixcoatlus_browni:0.111687,Mixcoatlus_melanurus:0.111687):0.015369,Mixcoatlus_barbouri:0.127056):0.051709,Ophryacus_undulatus:0.178765):0.072178):0.014011,((Bothriechis_lateralis:0.136536,Bothriechis_nigroviridis:0.136536):0.081809,Bothriechis_schlegelii:0.218346):0.046609):0.011645,((((Crotalus_basiliscus:0.110042,Crotalus_pricei:0.110042):0.023255,(Crotalus_eno:0.101112,Crotalus_willardi:0.101112):0.032185):0.01599,(Crotalus_adamanteus:0.114667,Crotalus_ruber:0.114667):0.03462):0.022214,Crotalus_cerastes:0.1715):0.026574,(Sistrurus_catenatus:0.146901,Sistrurus_miliarius:0.146901):0.051174):0.060429,(Agkistrodon_contortrix:0.144917,Agkistrodon_piscivorus:0.144917):0.113587):0.018096):0.007024,Lachesis_acrochorda:0.283624):0.01708):0.006967,(Ovophis_okinavensis:0.140521,Trimeresurus_gracilis:0.140521):0.16715):0.014563,((((((((Trimeresurus_erythrurus:0.017731,Trimeresurus_purpureomaculatus:0.017731):0.010122,Trimeresurus_cantori:0.027852):0.009196,Trimeresurus_andersonii:0.037049):0.029261,Trimeresurus_albolabris:0.06631):0.015621,Trimeresurus_septentrionalis:0.08193):0.015616,(Trimeresurus_fasciatus:0.048057,Trimeresurus_insularis:0.048057):0.049489):0.068704,((Trimeresurus_macrops:0.050043,Trimeresurus_venustus:0.050043):0.025566,Trimeresurus_kanburiensis:0.075609):0.090641):0.018822,((((Trimeresurus_gumprechtii:0.053008,Trimeresurus_stejnegeri:0.053008):0.029021,Trimeresurus_truongsonensis:0.082029):0.011609,Trimeresurus_

surus_vogeli:0.093639):0.023666,Trimeresurus_yunnanensis:0.117304):0.009162,Trimeresurus_medoensis:0.126466):0.058606):0.00961,Trimeresurus_sichuanensis:0.194682):0.015301,(((Trimeresurus_flavomaculatus:0.02389,Trimeresurus_mcgregori:0.02389):0.083327,(Trimeresurus_schultzei:0.08427,Trimeresurus_sumatranus:0.08427):0.022947):0.01919,Trimeresurus_malcolmi:0.126406):0.039775,Trimeresurus_hageni:0.166181):0.043802):0.016792,((Trimeresurus_popeiorum:0.074359,Trimeresurus_sabahi:0.074359):0.110693,Trimeresurus_tibetanus:0.185051):0.041724):0.055712,(((Trimeresurus_borneensis:0.126783,Trimeresurus_wiroti:0.126783):0.058094,Trimeresurus_puniceus:0.184877):0.051404,((Trimeresurus_gramineus:0.09954,Trimeresurus_trigonocephalus:0.09954):0.057734,Trimeresurus_malabaricus:0.157274):0.079007):0.046206):0.039747):0.047264,(((Hypnale_hypnale:0.124461,Hypnale_zara:0.124461):0.051554,Hypnale_nepa:0.176016):0.086055,Calloselasma_rhodostoma:0.26207):0.090027,(((Tropidolaemus_subannulatus:0.181675,Tropidolaemus_wagleri:0.181675):0.116911,Deinagkistrodon_acutus:0.298586):0.026586,Garrhthius_chaseni:0.325172):0.026925):0.017401):0.044439,Azemiops_feae:0.413937):0.076838,((((((((((((Vipera_dinniki:0.004376,Vipera_renardi:0.004376):0.010058,Vipera_lotievi:0.014433):0.014156,Vipera_eriwanensis:0.02859):0.019292,Vipera_ursinii:0.047882):0.009325,Vipera_orlovi:0.057206):0.021506,(Vipera_anatolica:0.061283,Vipera_kaznakovi:0.061283):0.01743):0.023703,(((Vipera_berus:0.017635,Vipera_barani:0.017635):0.0151,Vipera_nikolskii:0.032736):0.032401,Vipera_seoanei:0.065137):0.037279):0.05538,(Vipera_aspis:0.085084,Vipera_latastei:0.085084):0.072711):0.034899,(Vipera_ammodytes:0.077665,Vipera_transcaucasiana:0.077665):0.115029):0.081541,((Daboia_mauritanica:0.153101001127243,Daboia_palaestinae:0.153101):0.055699,Daboia_siamensis:0.2088):0.065435):0.028376,((((Montivipera_albizona:0.031112,Montivipera_wagneri:0.031112):0.009687,Montivipera_bornmuelleri:0.040798):0.023297,Montivipera_xanthina:0.064095):0.03855,(Montivipera_latifii:0.02616,Montivipera_raddei:0.02616):0.076485):0.067347,(Macrovipera_lebetina:0.035178,Macrovipera_schweizeri:0.035178):0.134815):0.132619):0.036368,(((Pseudocerastes_persicus:0.10702,Pseudocerastes_urarachnoides:0.10702):0.058245,Pseudocerastes_fieldi:0.165265):0.075247,Eristicophis_macmahoni:0.240512):0.098467):0.065213,((((Echis_leucogaster:0.033682,Echis_pyramidum:0.033682):0.062176,Echis_borkini:0.095858):0.024117,Echis_khosatzkii:0.119975):0.099633,(Echis_coloratus:0.103214,Echis_omanensis:0.103214):0.116393):0.027481,(Echis_jogeri:0.096743,Echis_ocellatus:0.096743):0.150345):0.016766,Echis_carinatus:0.263854):0.120908,(((Causus_resimus:0.142287,Causus_rhombeatus:0.142287):0.019133,Causus_defilippii:0.16142):0.05938,Causus_lichtensteini:0.220801):0.124122,((Cerastes_cerastes:0.13493,Cerastes_gasperettii:0.13493):0.078572,Cerastes_vipera:0.213501):0.131421):0.039839):0.019431):0.012482,((((((((Bitis_cornuta:0.069743,Bitis_rubida:0.069743):0.049242,Bitis_atropos:0.118985):0.050894,Bitis_xeropaga:0.16988):0.061481,(Bitis_caudalis:0.08039,Bitis_peringueyi:0.08039):0.150971):0.043845,((Bitis_gabonica:0.032677,Bitis_rhinoceros:0.032677):0.090733,Bitis_nasicornis:0.12341):0.151796):0.021336,Bitis_worthingtoni:0.296541):0.03016,Bitis_arietans:0.326701):0.060597,(((Atheris_nitschei:0.122891,Atheris_desaixi:0.122891):0.03023,(Atheris_squamigera:0.060738,Atheris_hispida:0.060738):0.092383):0.022425,((Atheris_ceratophora:0.03995,Atheris_matildae:0.03995):0.091442,Atheris_barbouri:0.131392):0.044154):0.030024,Atheris_chlorechis:0.20557):0.181728):0.029377):0.012456,Proatheris_superciliaris:0.42913):0.061644);

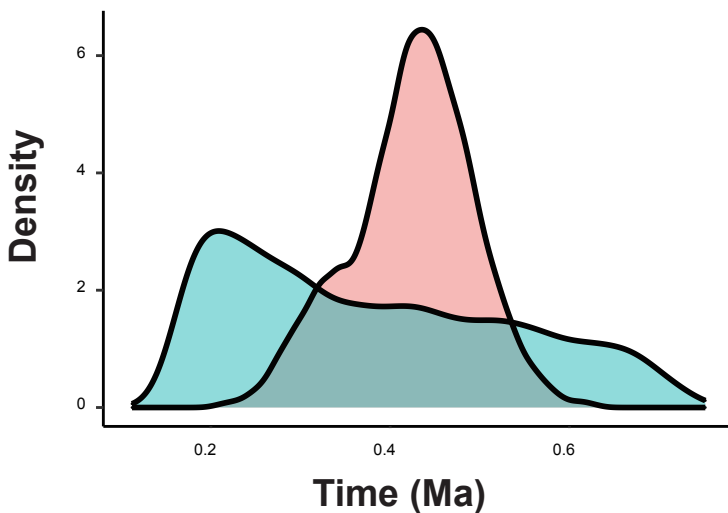
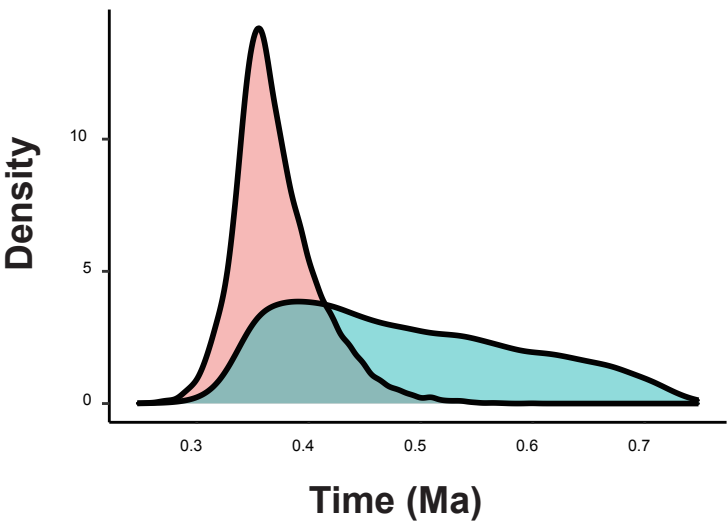
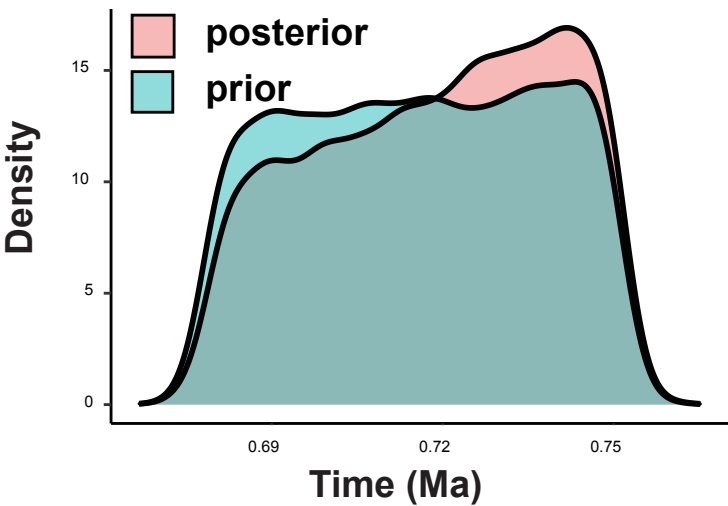
Data S2.

Densities for calibrated nodes from **Table S5**. “Prior” means the marginal prior, and “Posterior” means the marginal posterior. For the majority of calibrated nodes, the incomplete overlap of prior and posterior distributions suggested the data contain sufficient information to overrule the priors for these parameters.

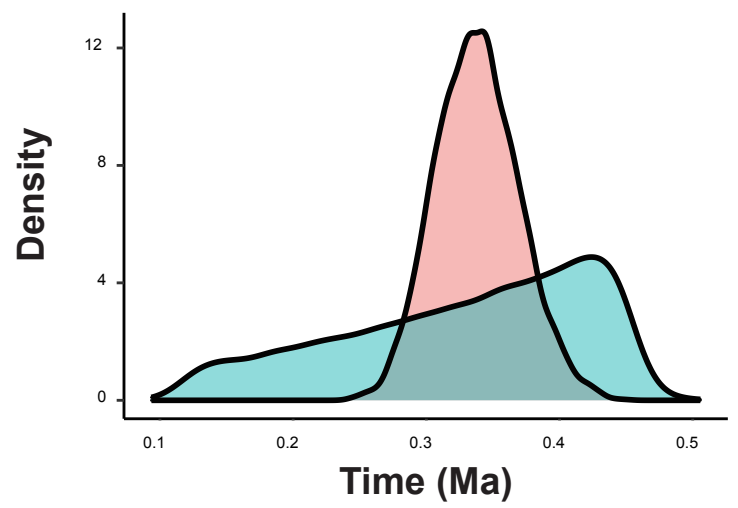
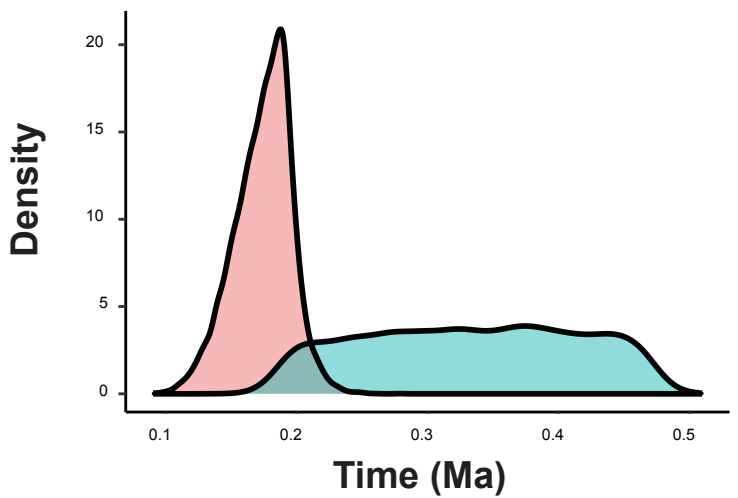
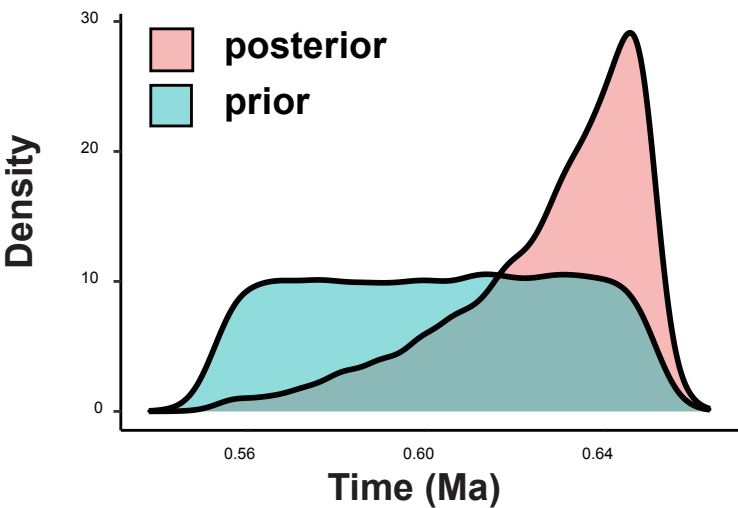
Agamidae



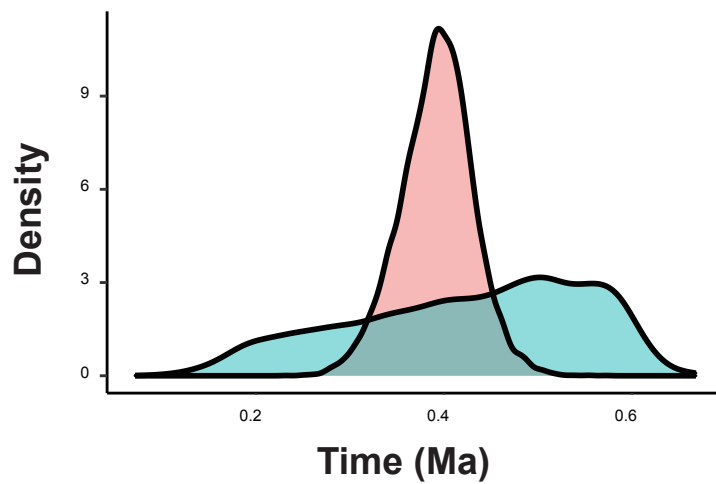
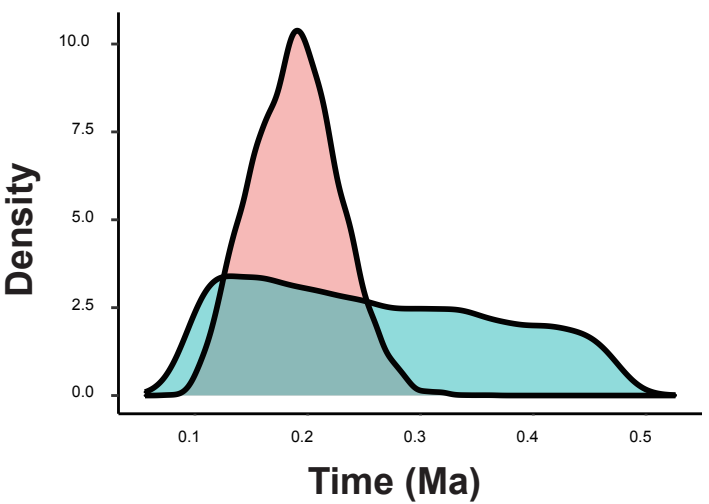
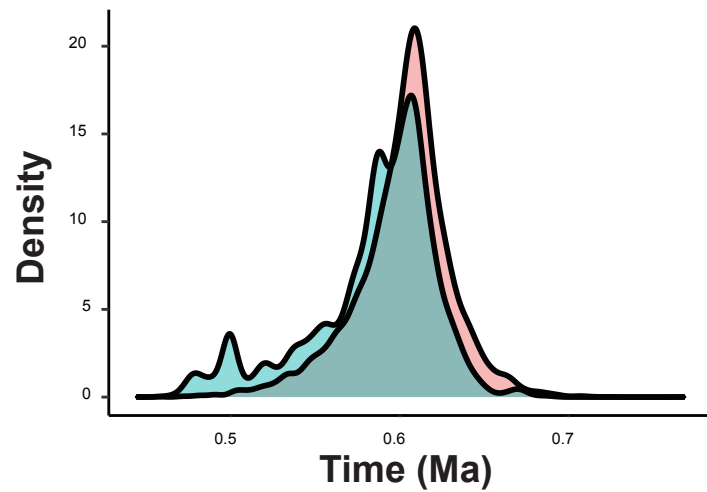
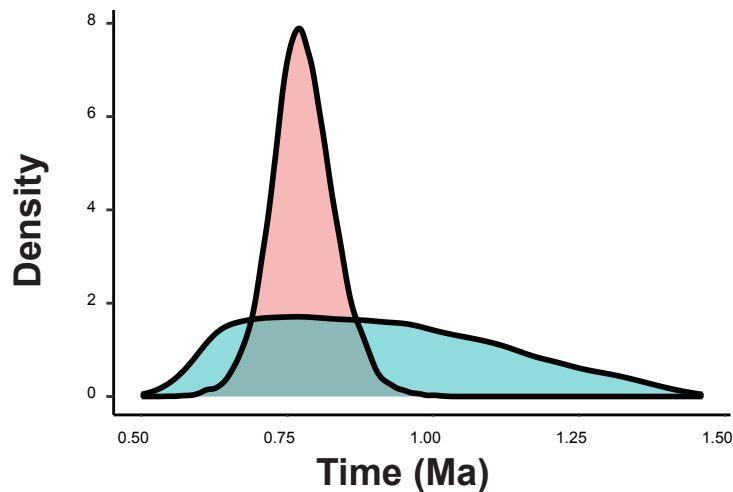
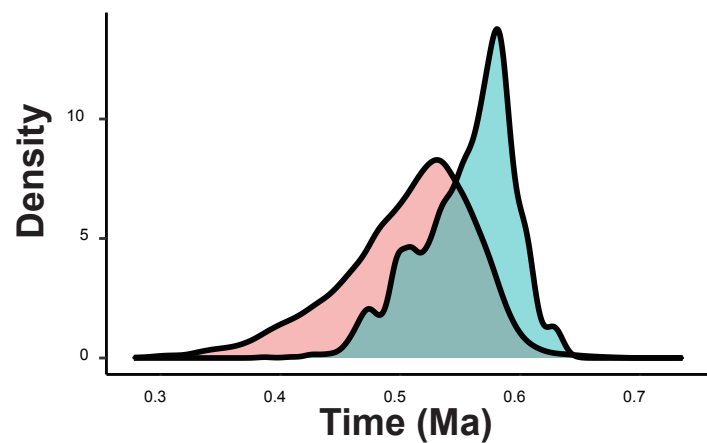
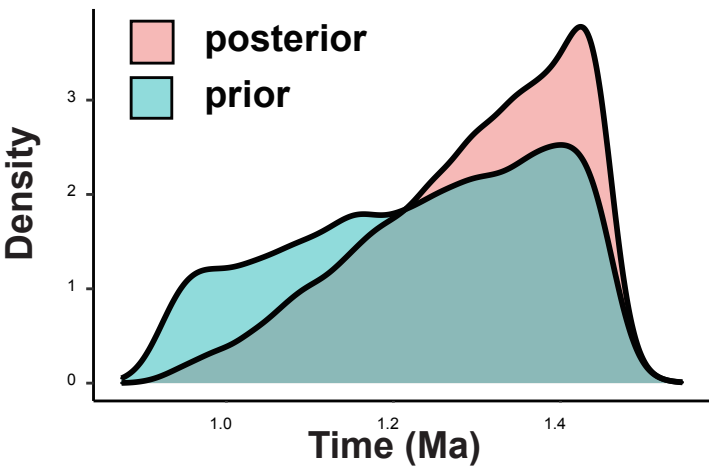
Anguidae



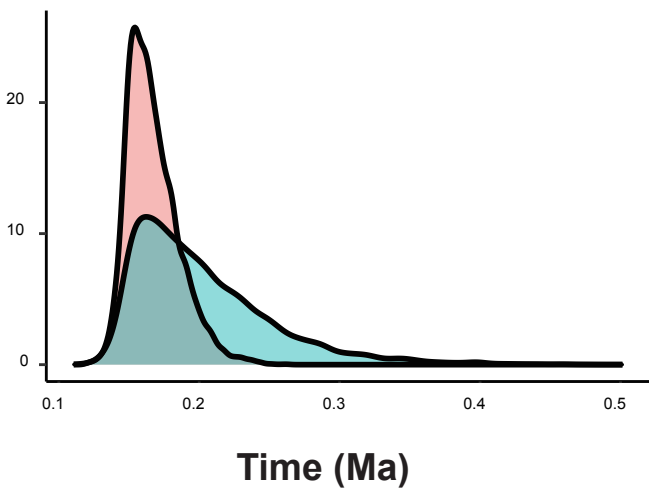
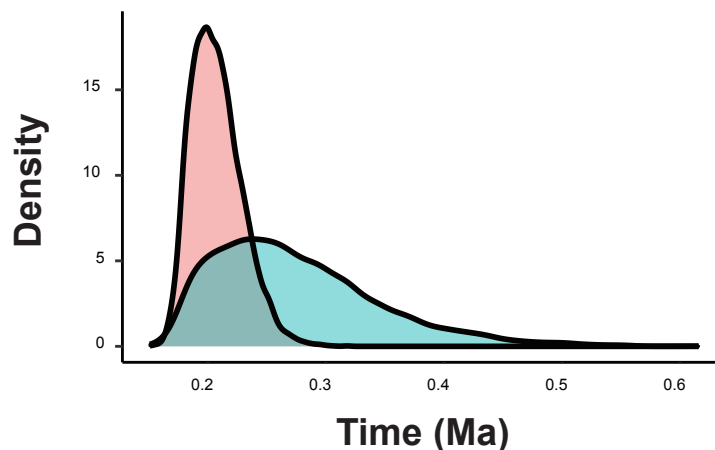
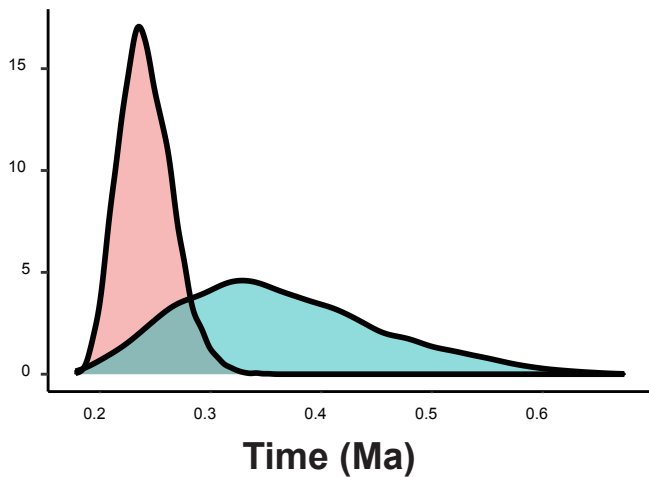
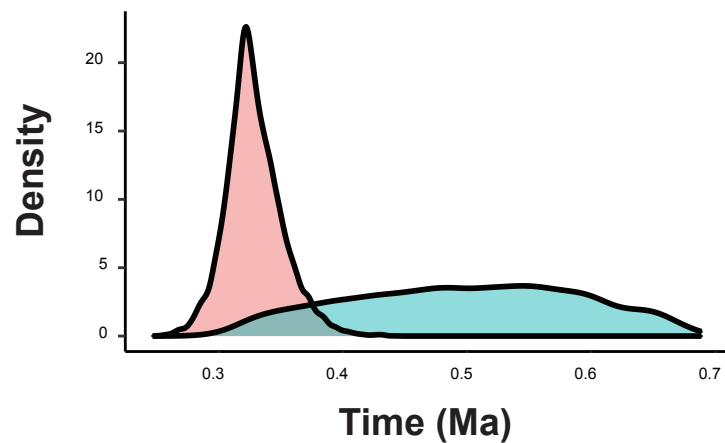
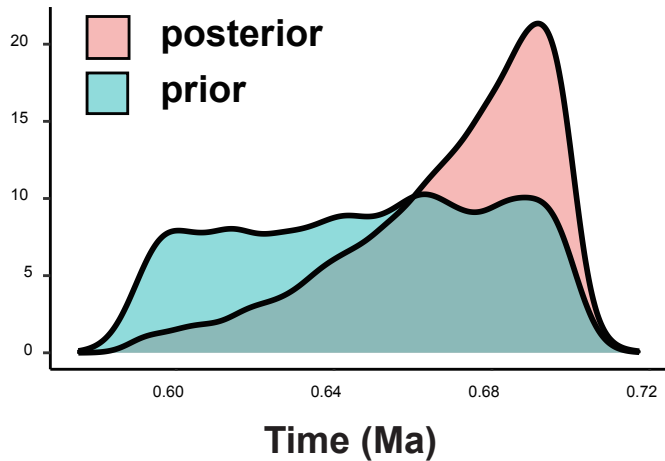
Bufo



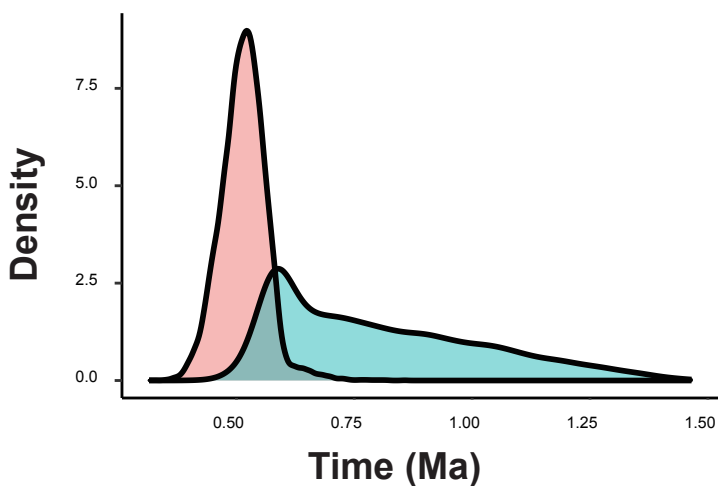
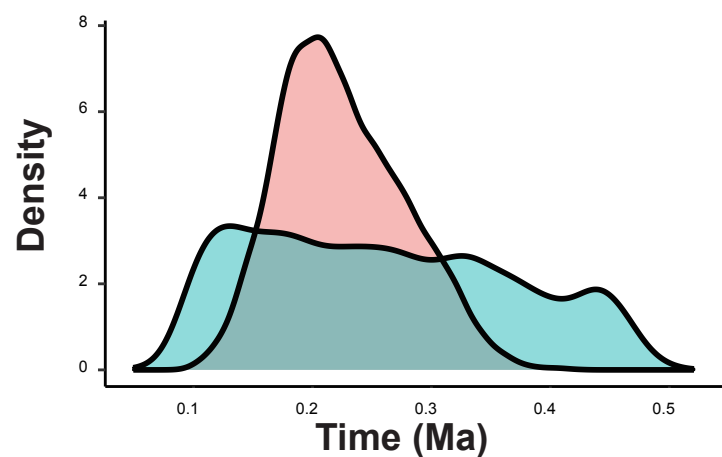
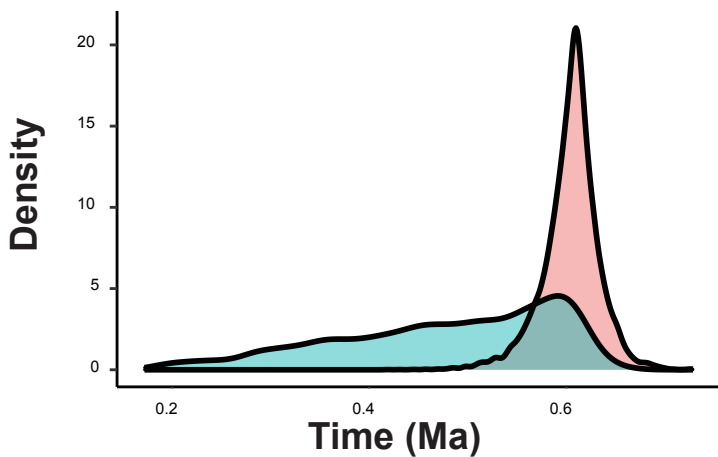
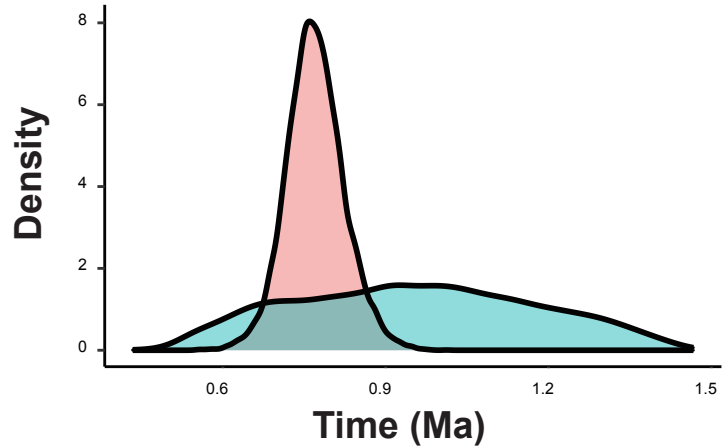
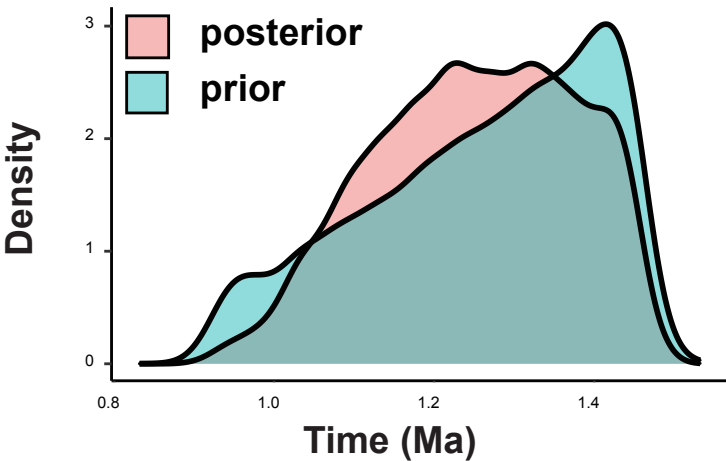
Colubridae



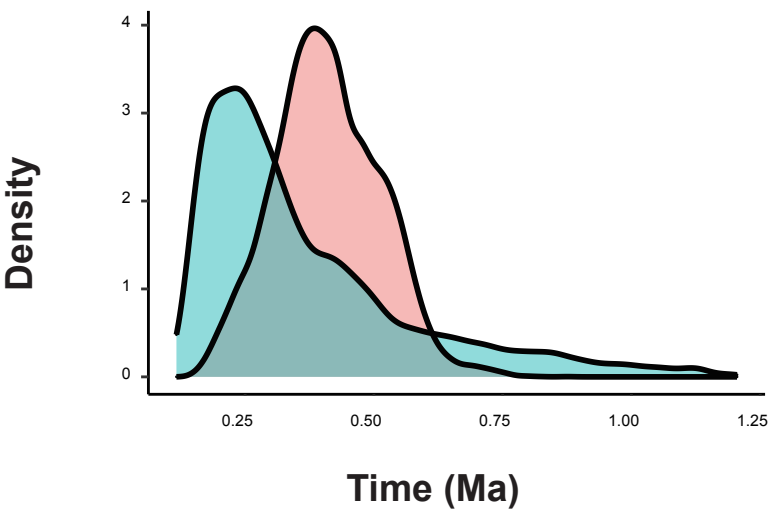
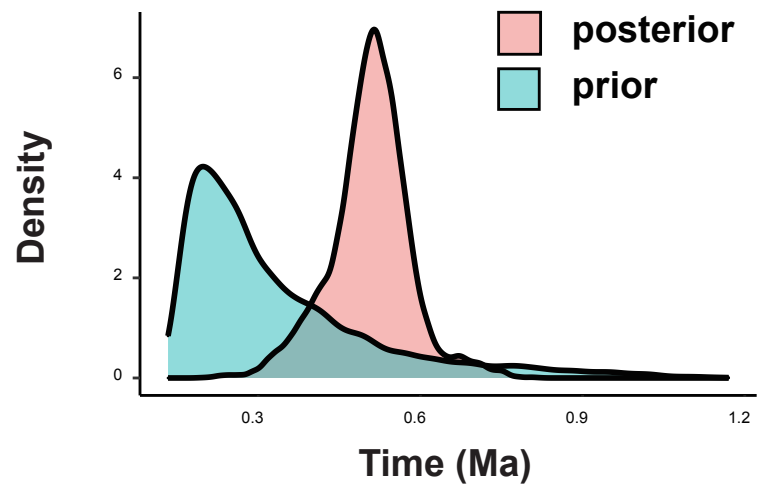
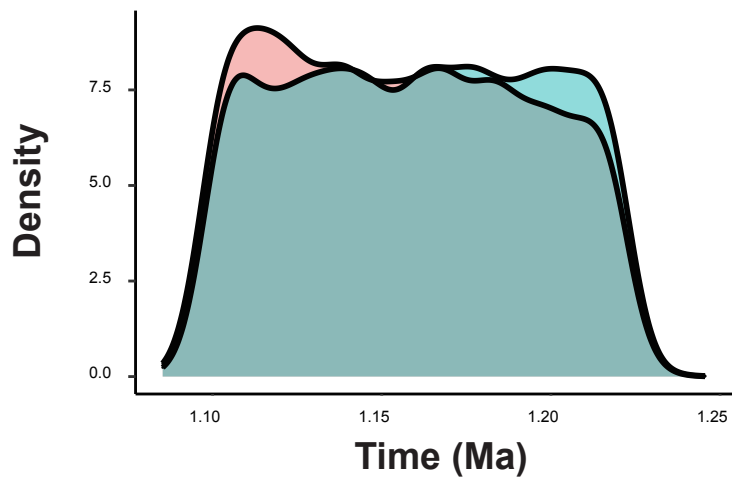
Dicroglossidae



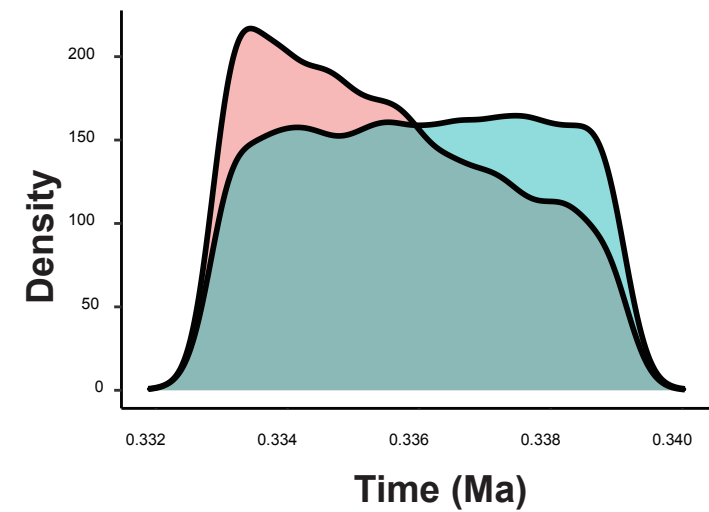
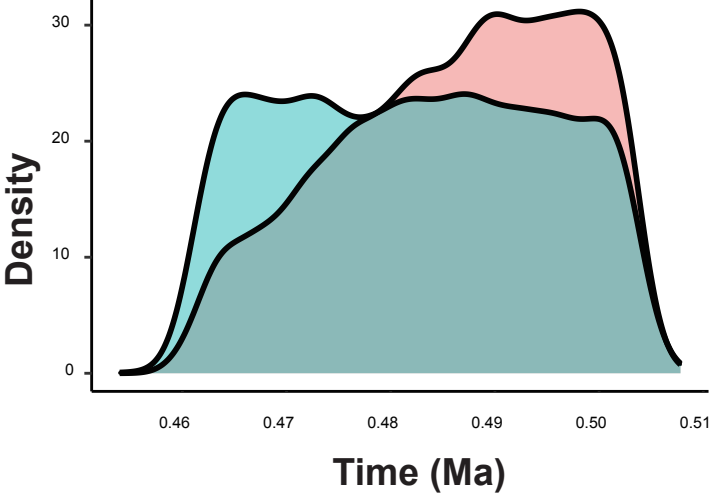
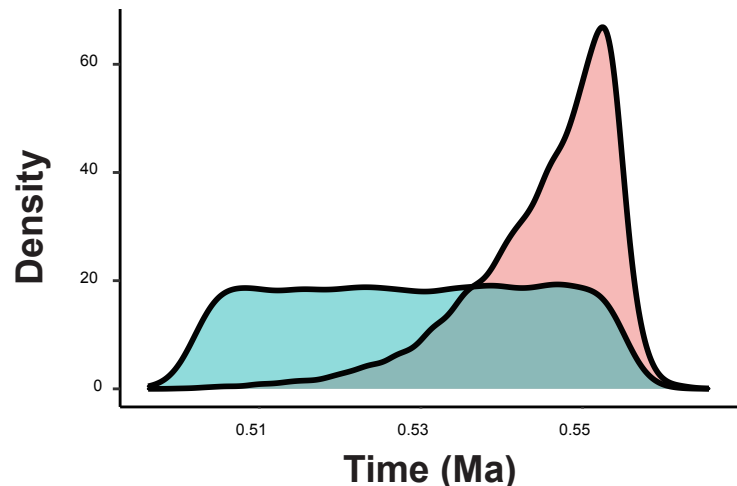
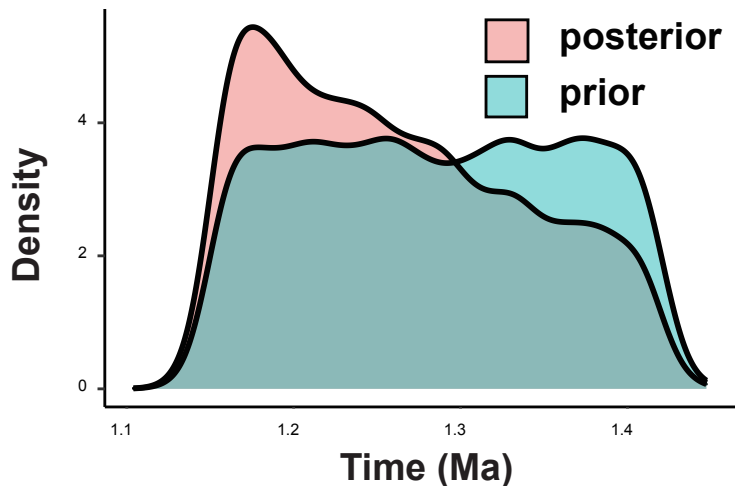
Elapidae



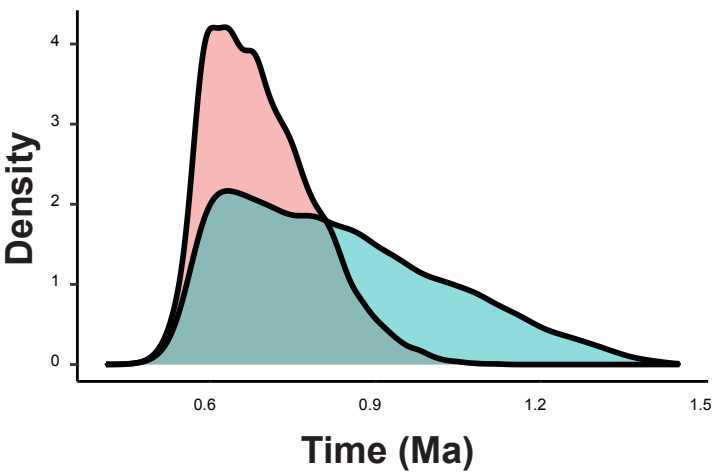
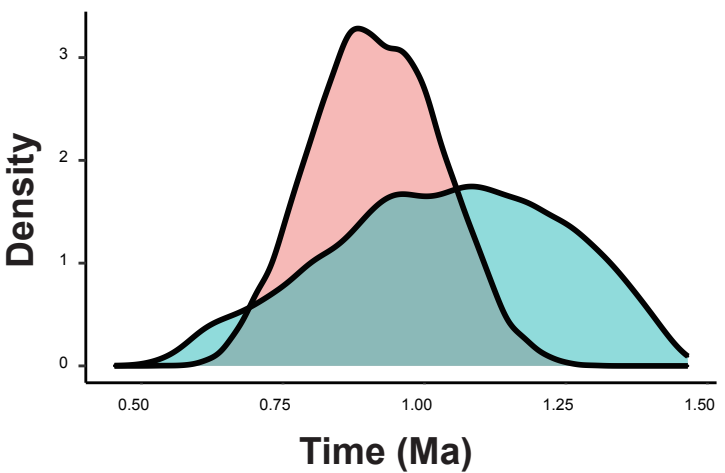
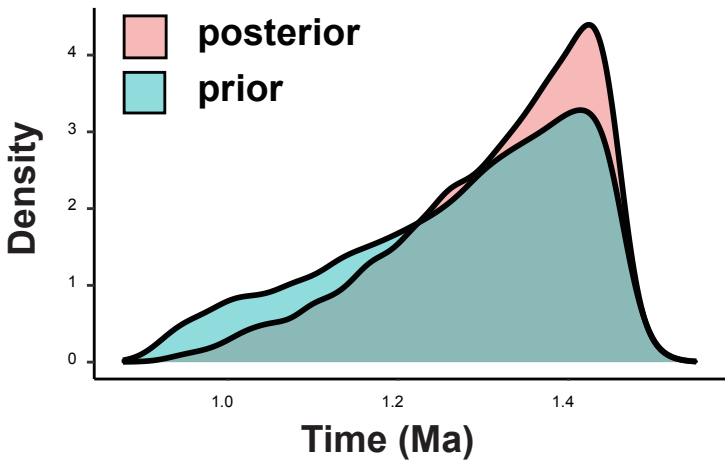
Gekkonidae



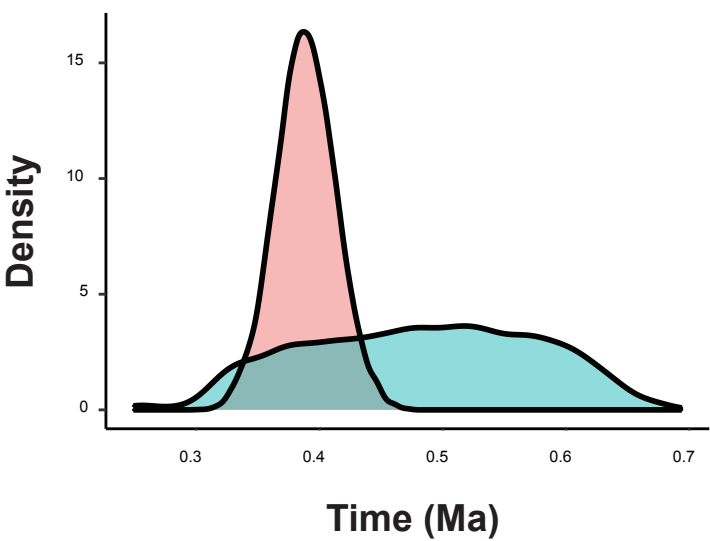
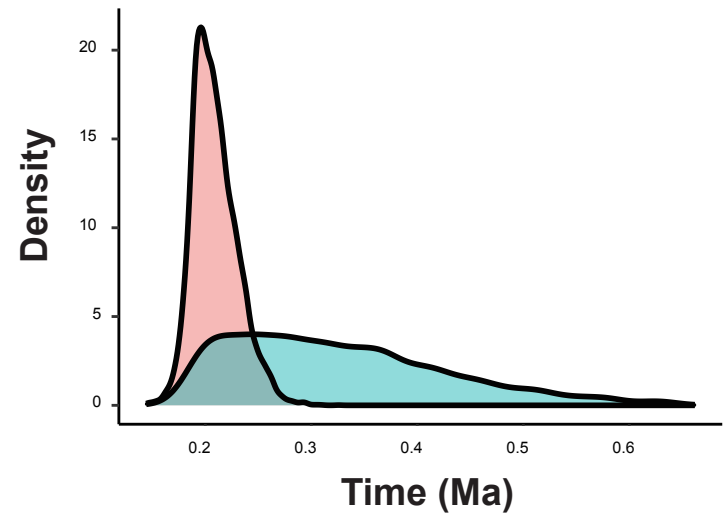
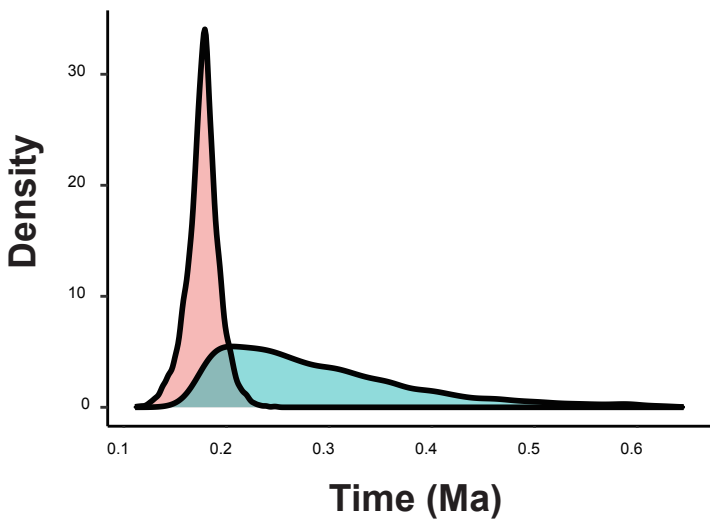
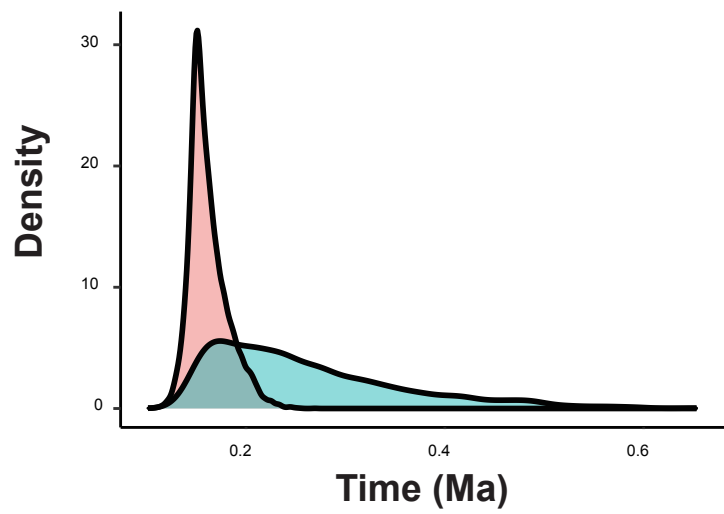
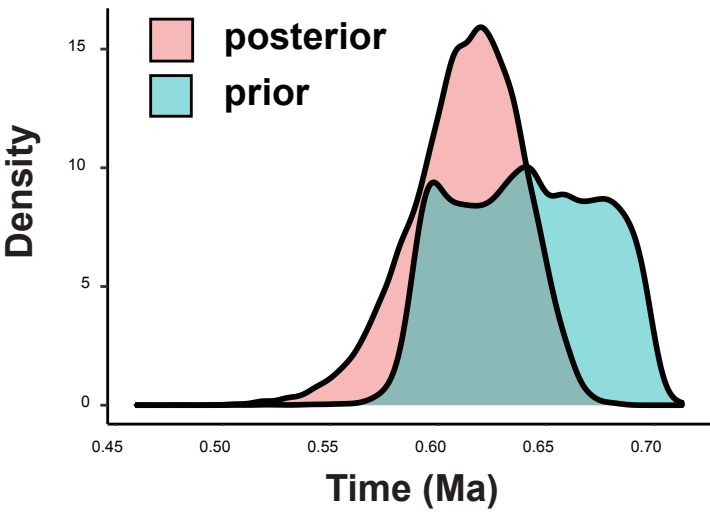
Megophryidae



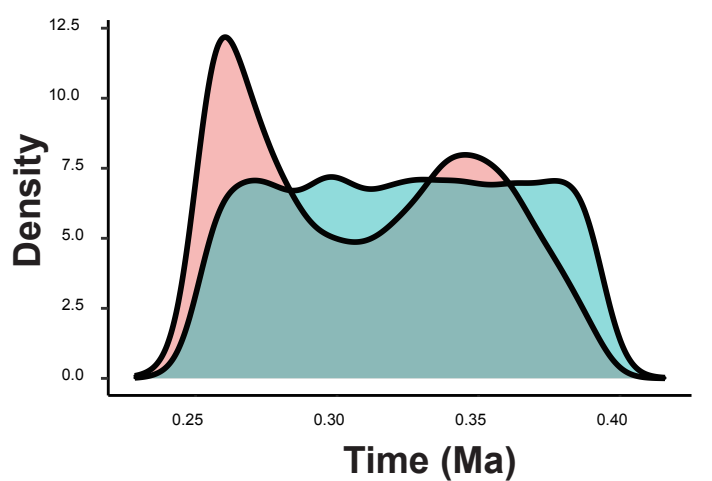
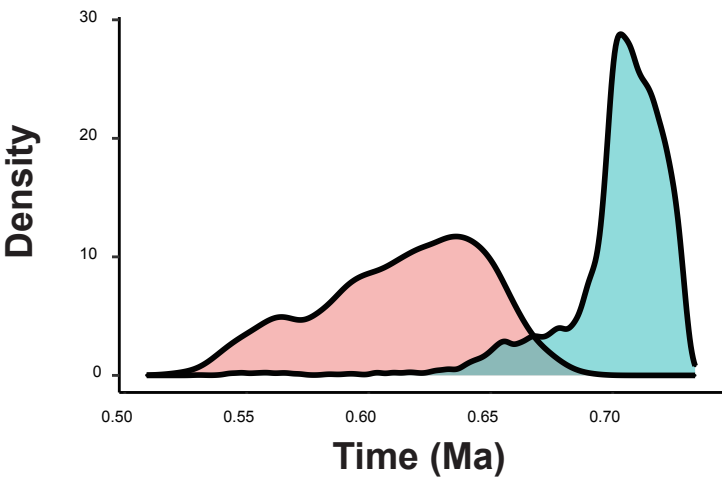
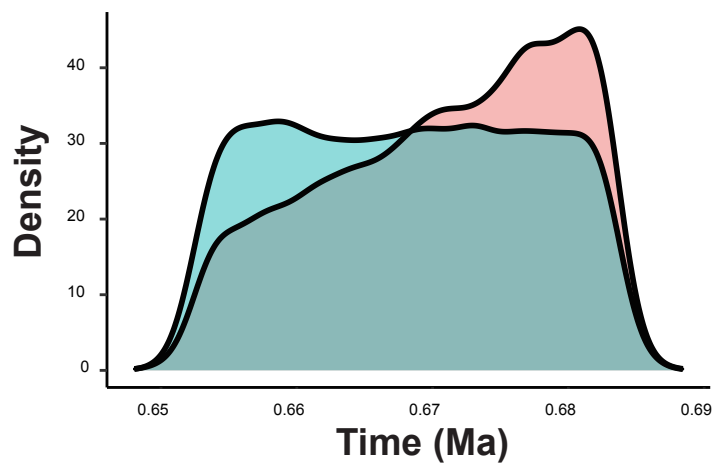
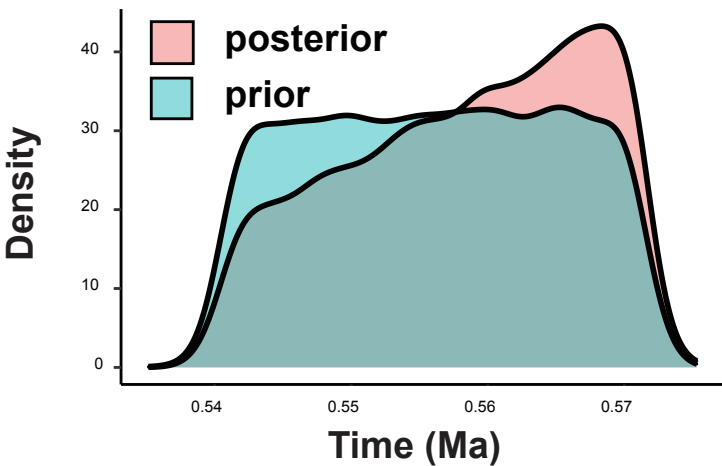
Pareidae



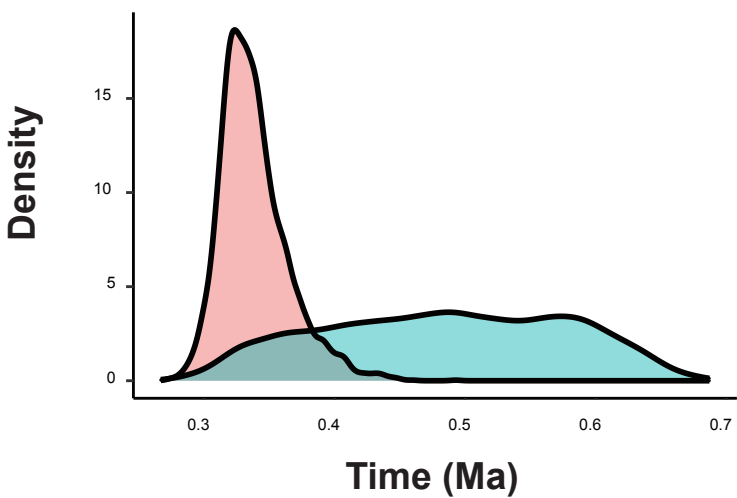
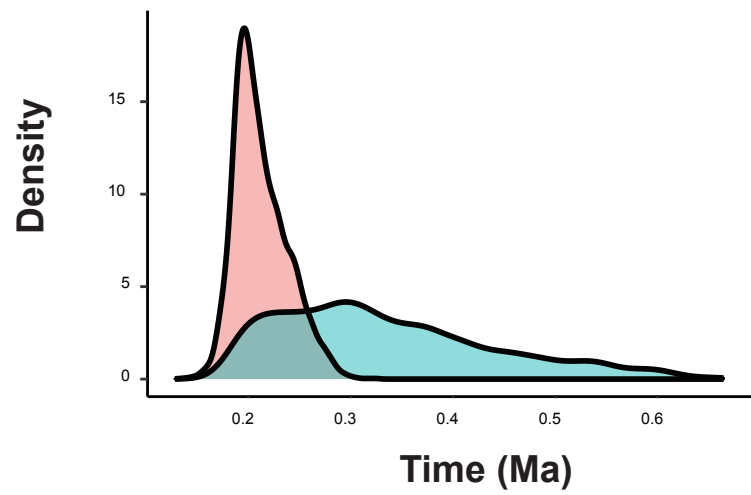
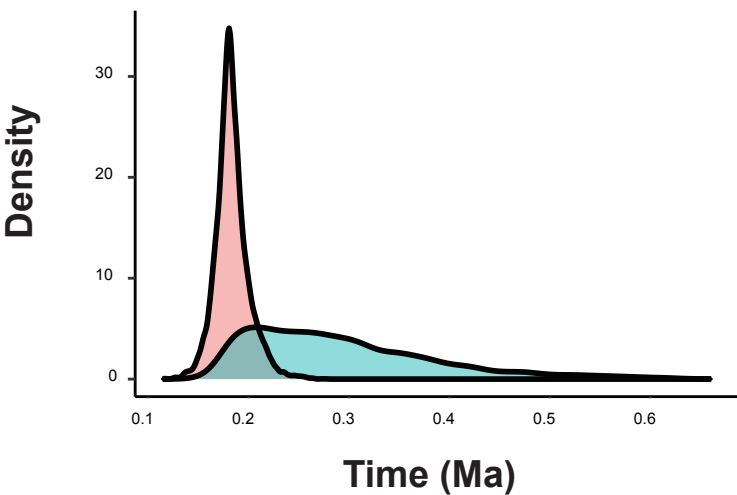
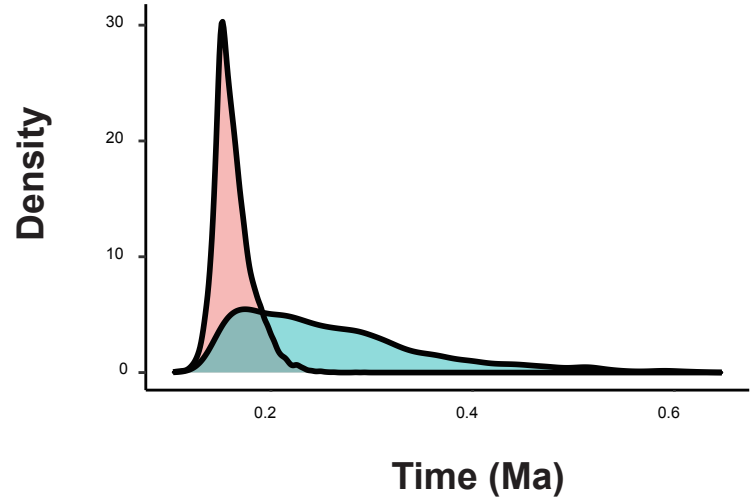
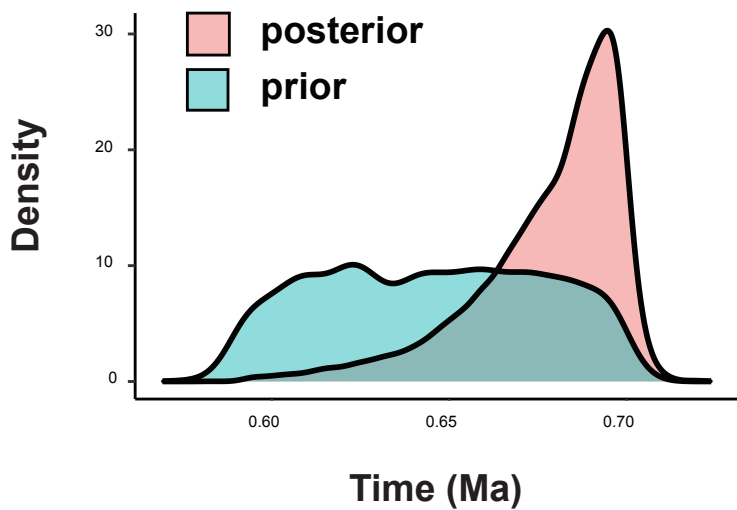
Ranidae



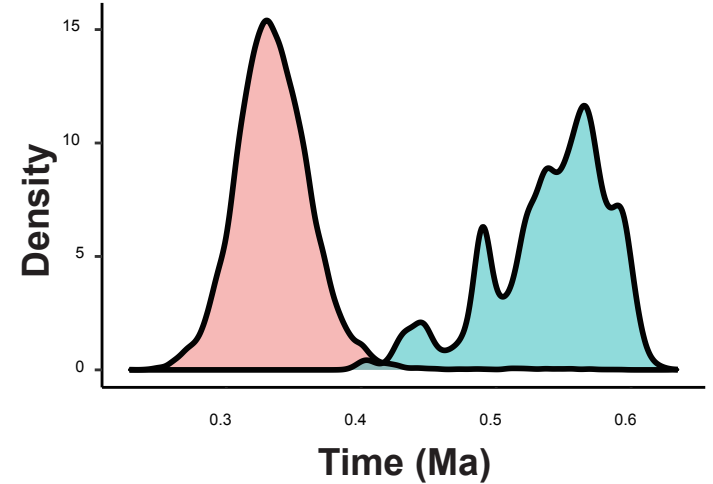
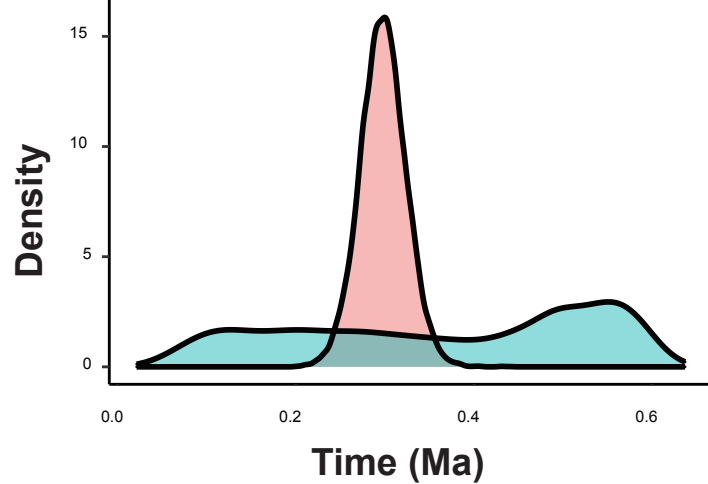
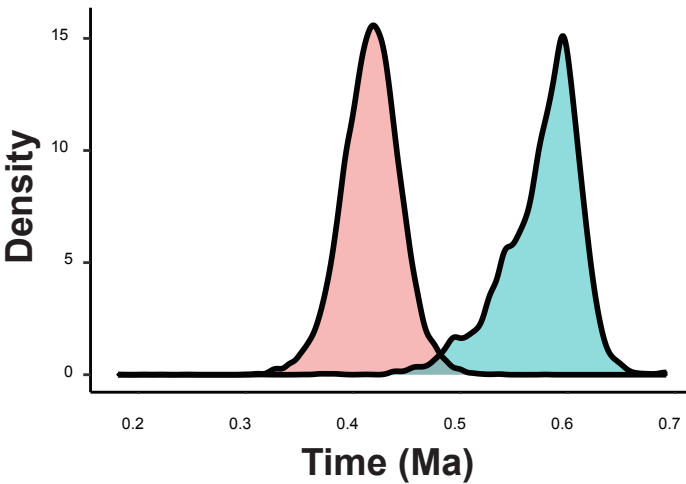
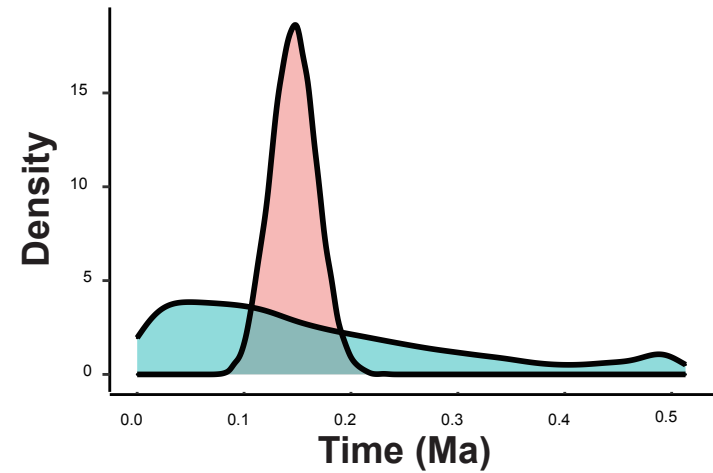
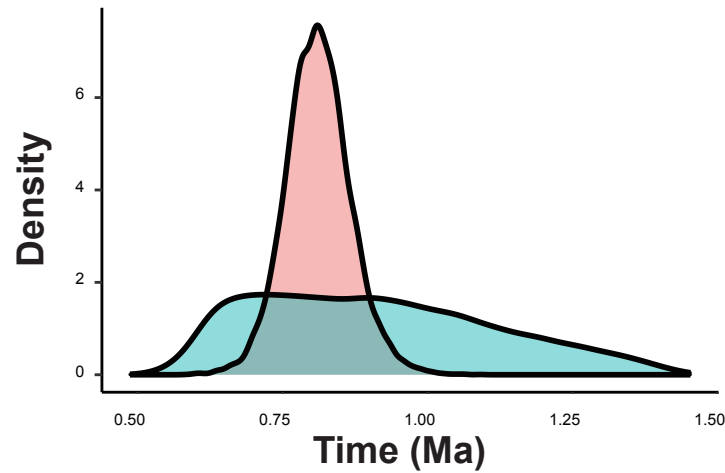
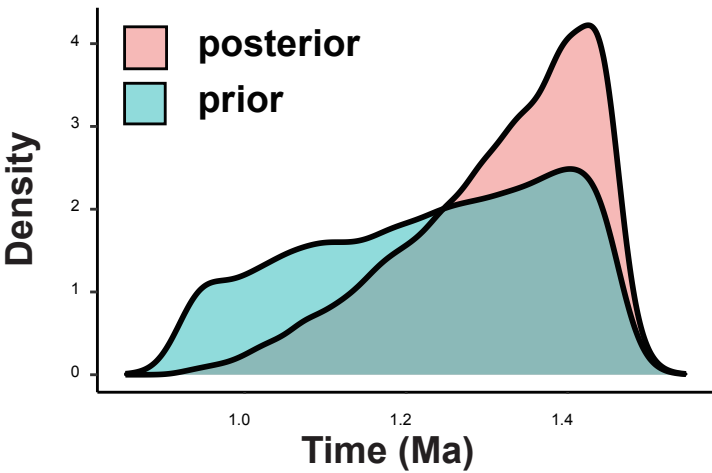
Scincidae



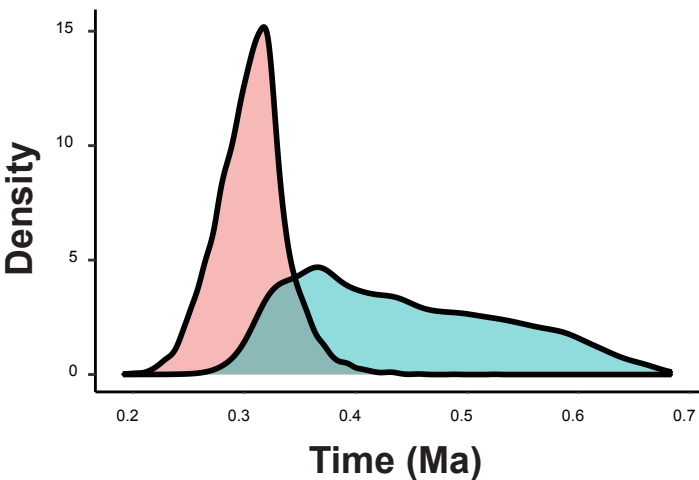
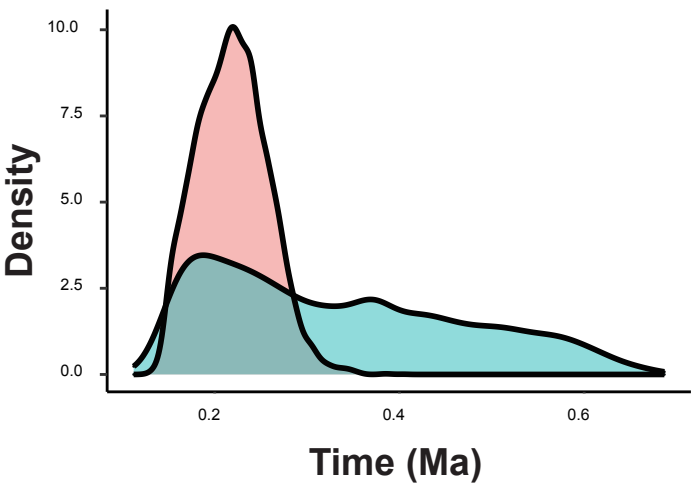
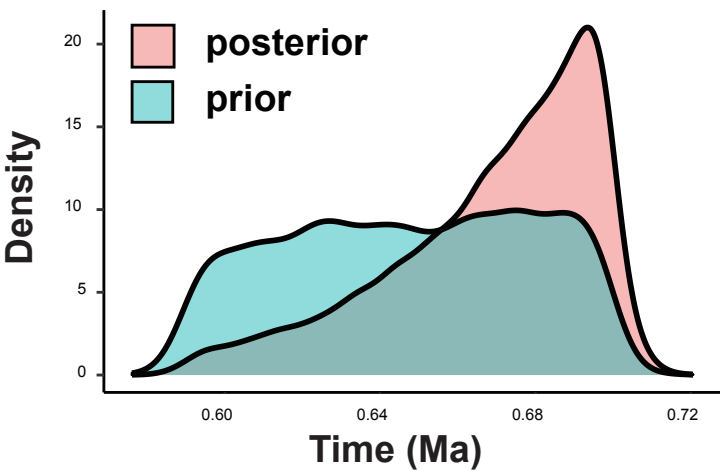
Rhacophoridae



Viperidae



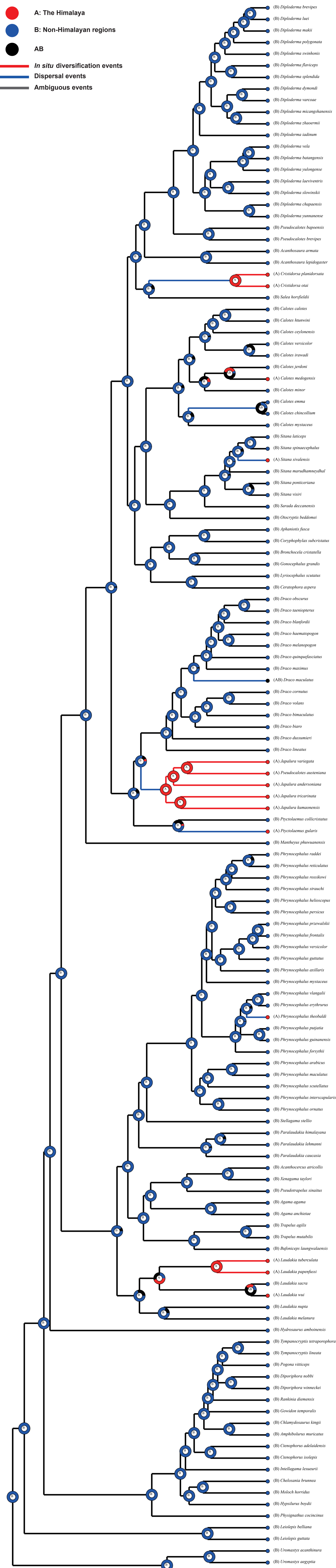
Ceratobatrachidae



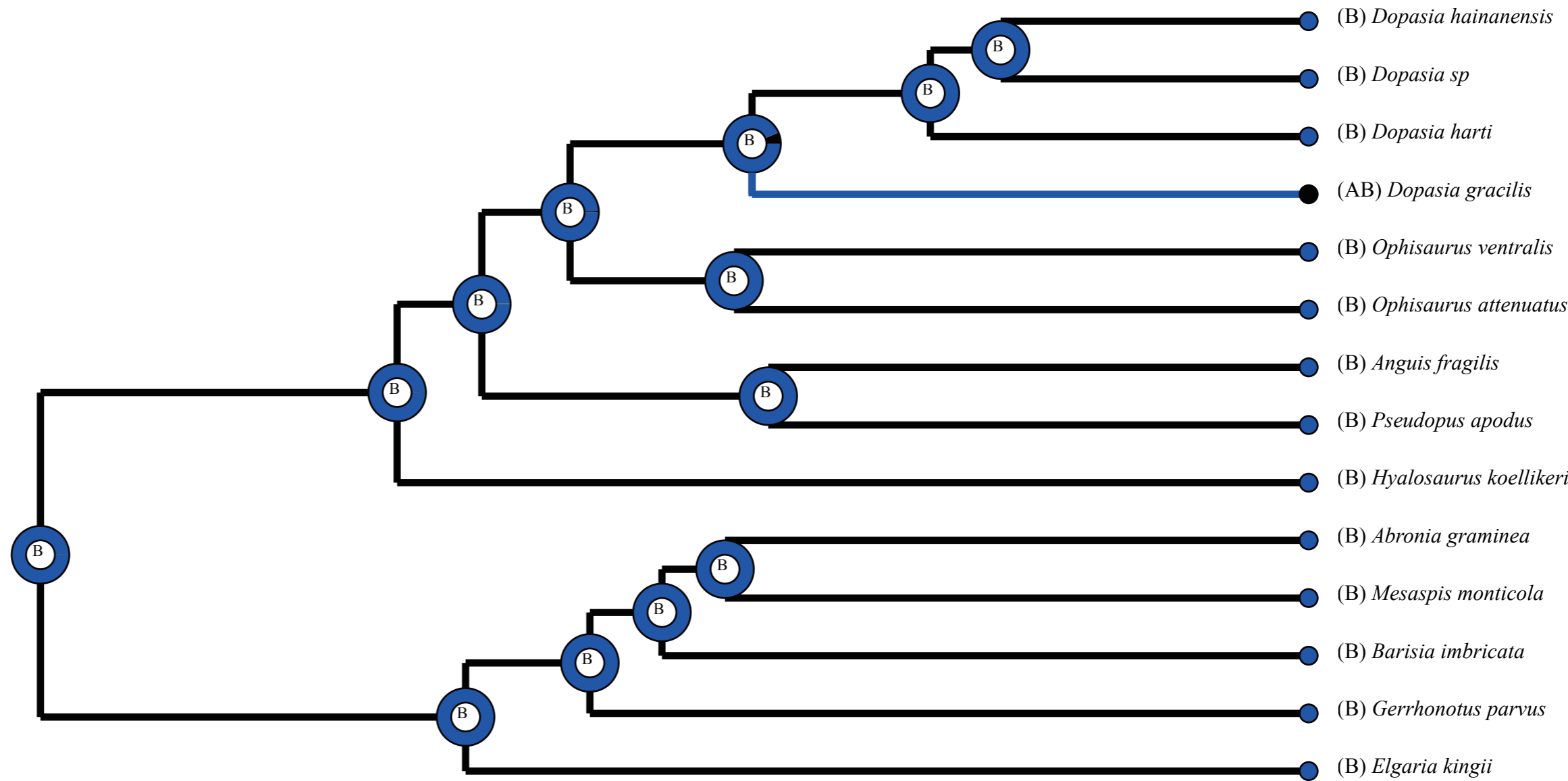
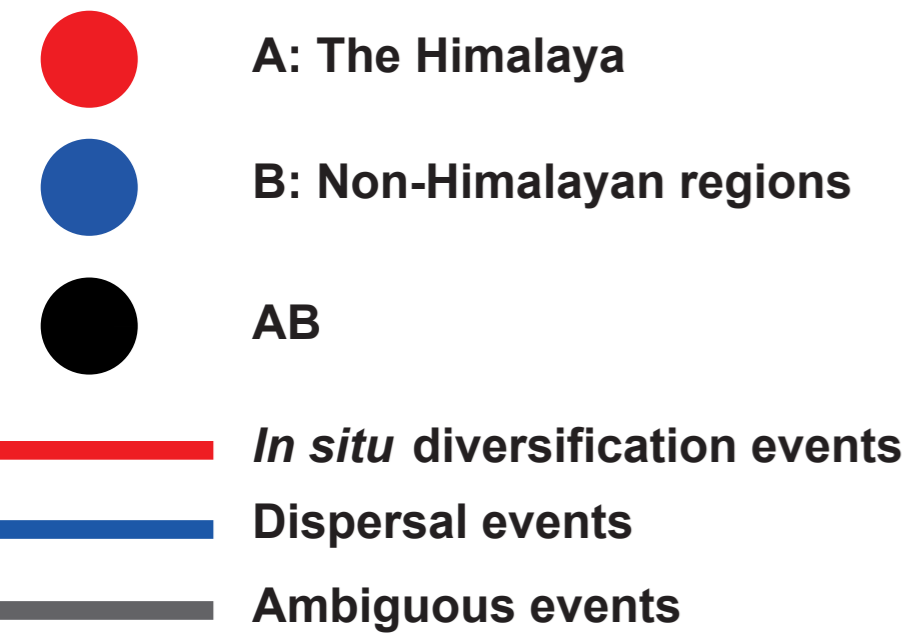
Data S3.

BioGeoBEARS analysis results based on two regions. Ancestral areas for reconstructed nodes are indicated by the following colors and letters: Red (A): the Himalaya; blue (B): non-Himalayan regions; black (AB): both regions; Red branches represent *in situ* diversification events, blue branches represent dispersal events, and gray branches were ambiguous. Black branches are not related to Himalayan diversification.

Agamidae

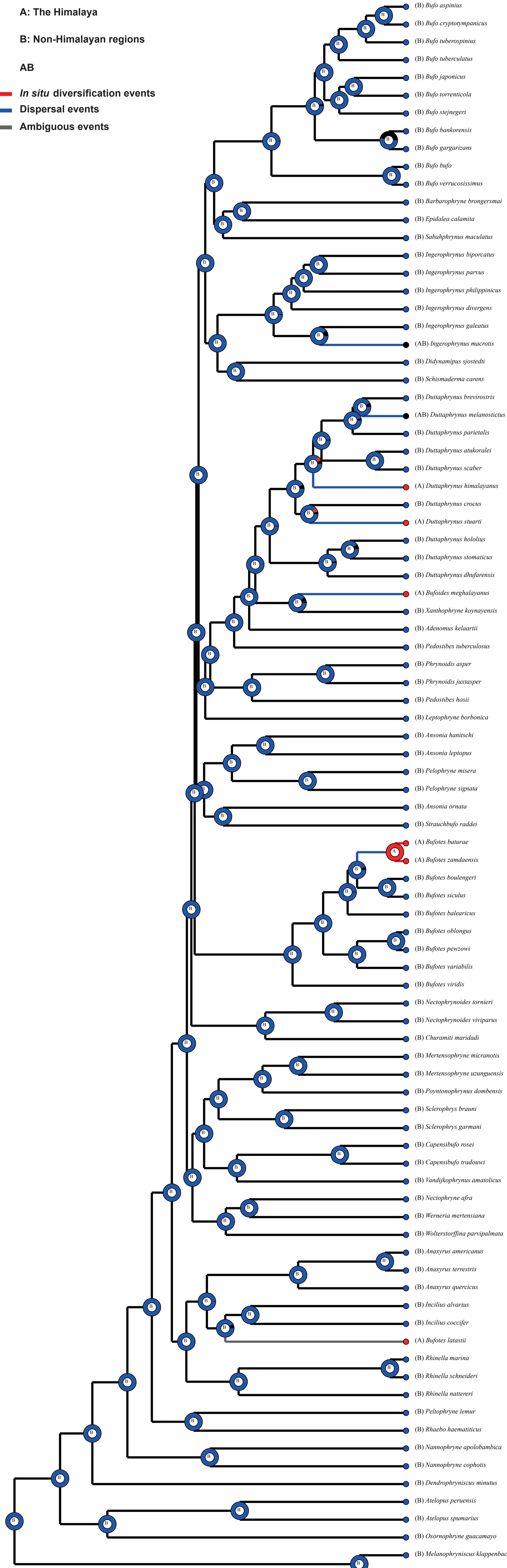


Anguidae

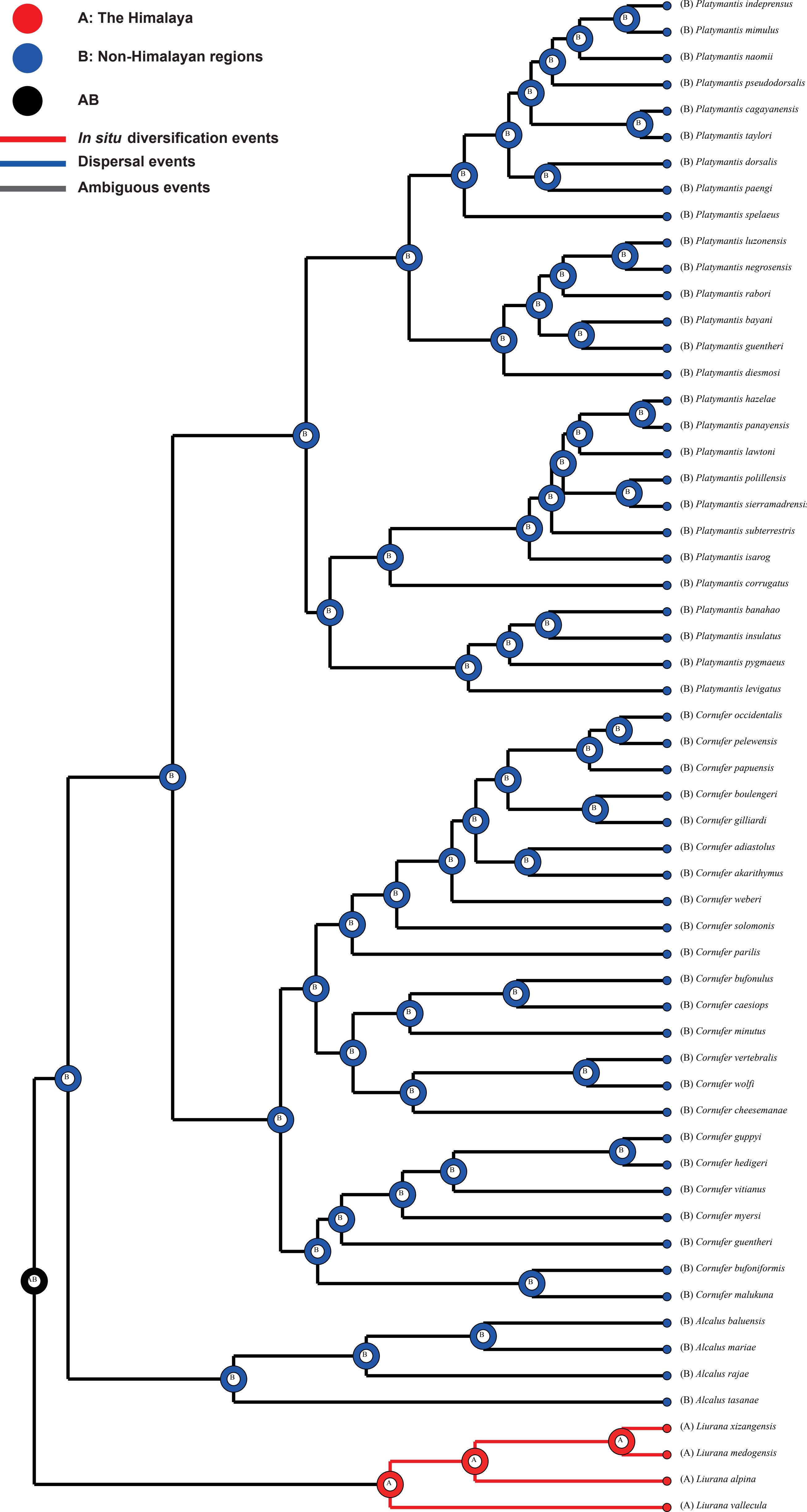


Bufo

- **A: The Himalaya**
- **B: Non-Himalayan regions**
- **AB**
- **In situ diversification events**
- **Dispersal events**
- **Ambiguous events**

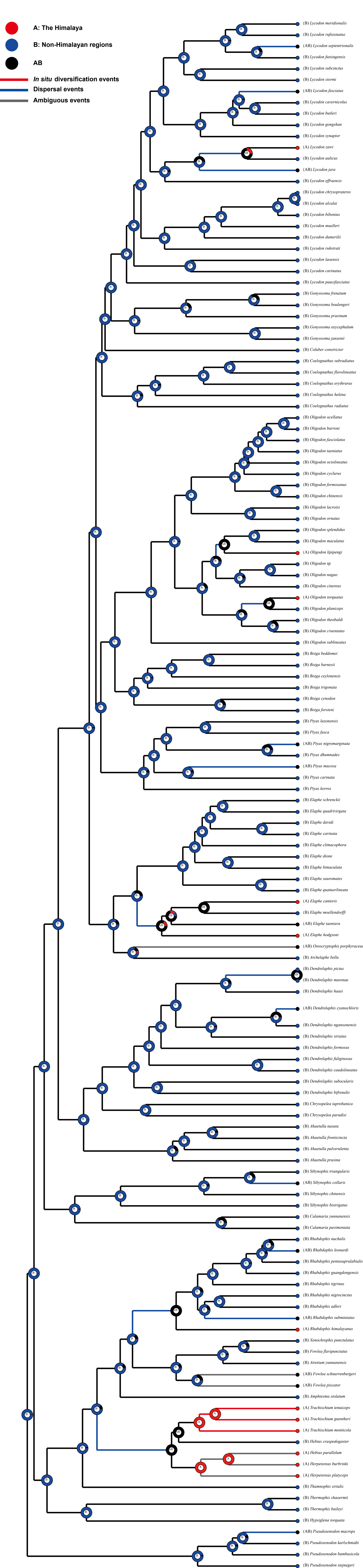


Ceratobatrachidae

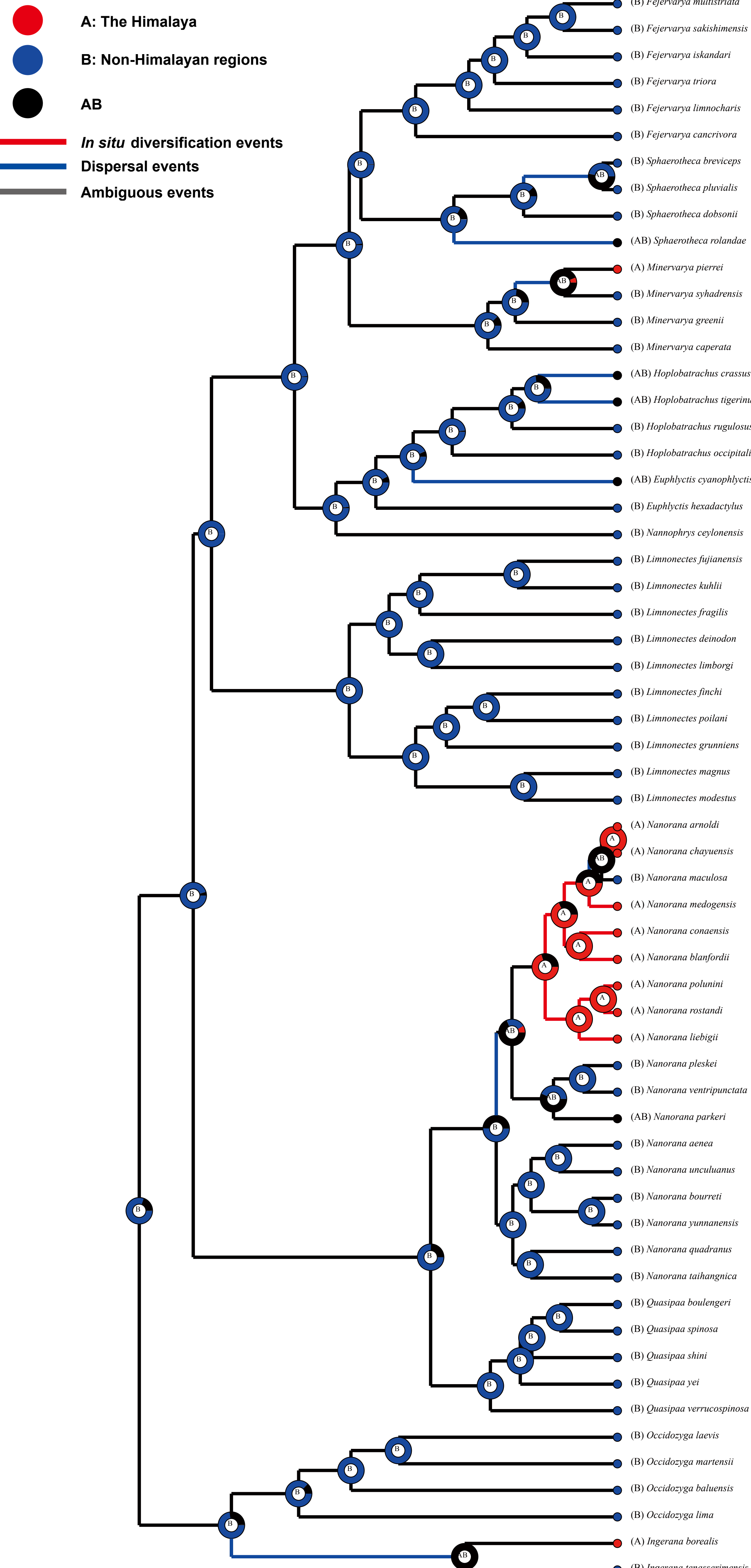


Colubridae

● **A: The Himalaya**
● **B: Non-Himalayan regions**
● **AB**
— **In situ diversification events**
— **Dispersal events**
— **Ambiguous events**

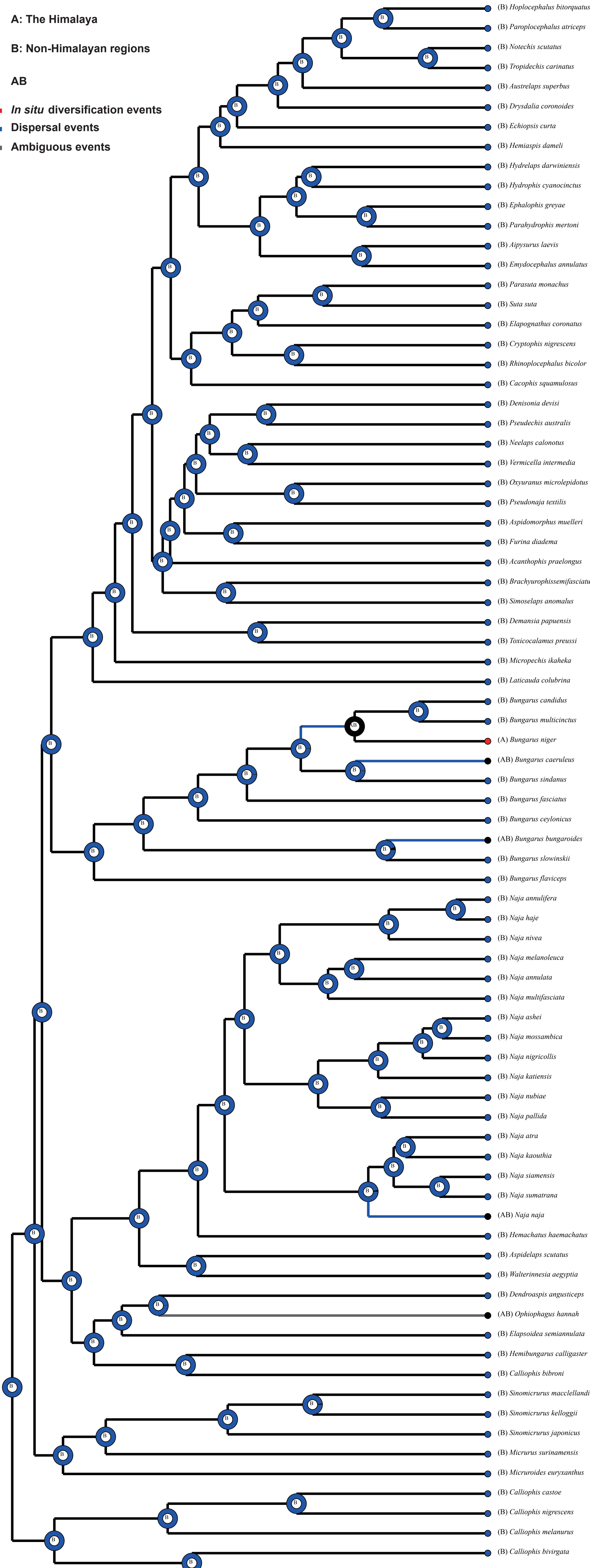


Dicroglossidae

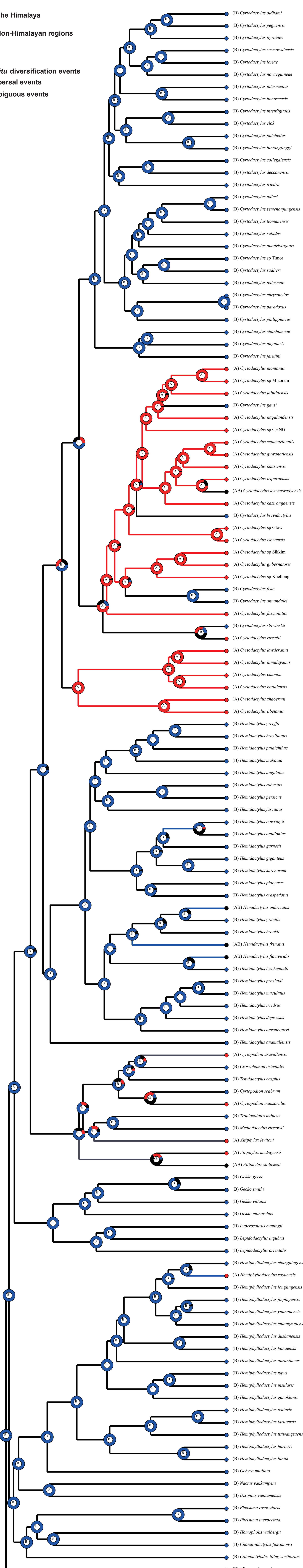
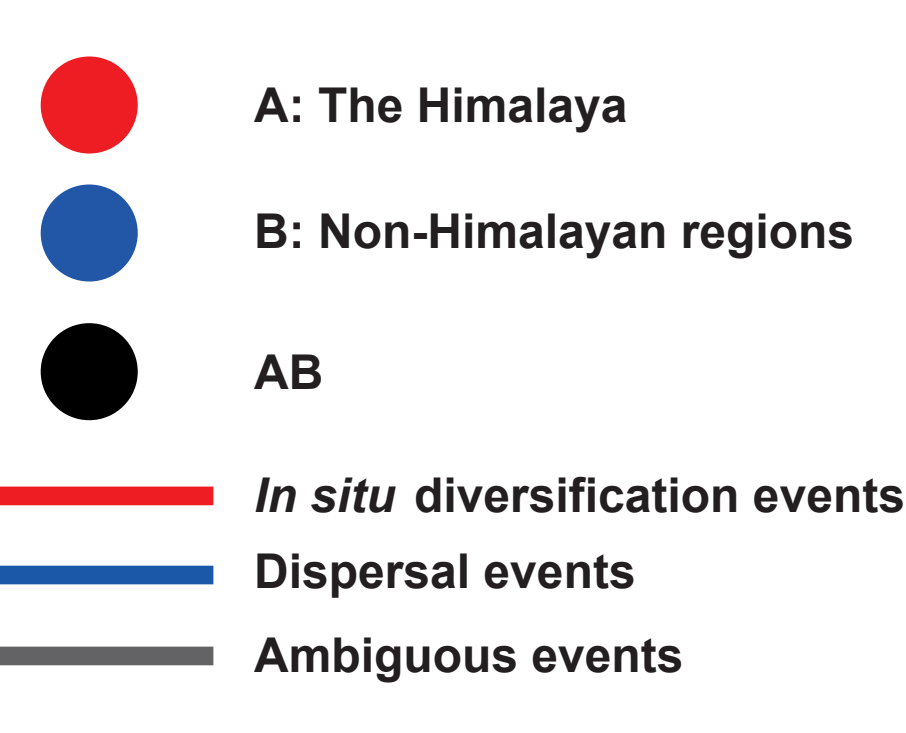


Elapidae

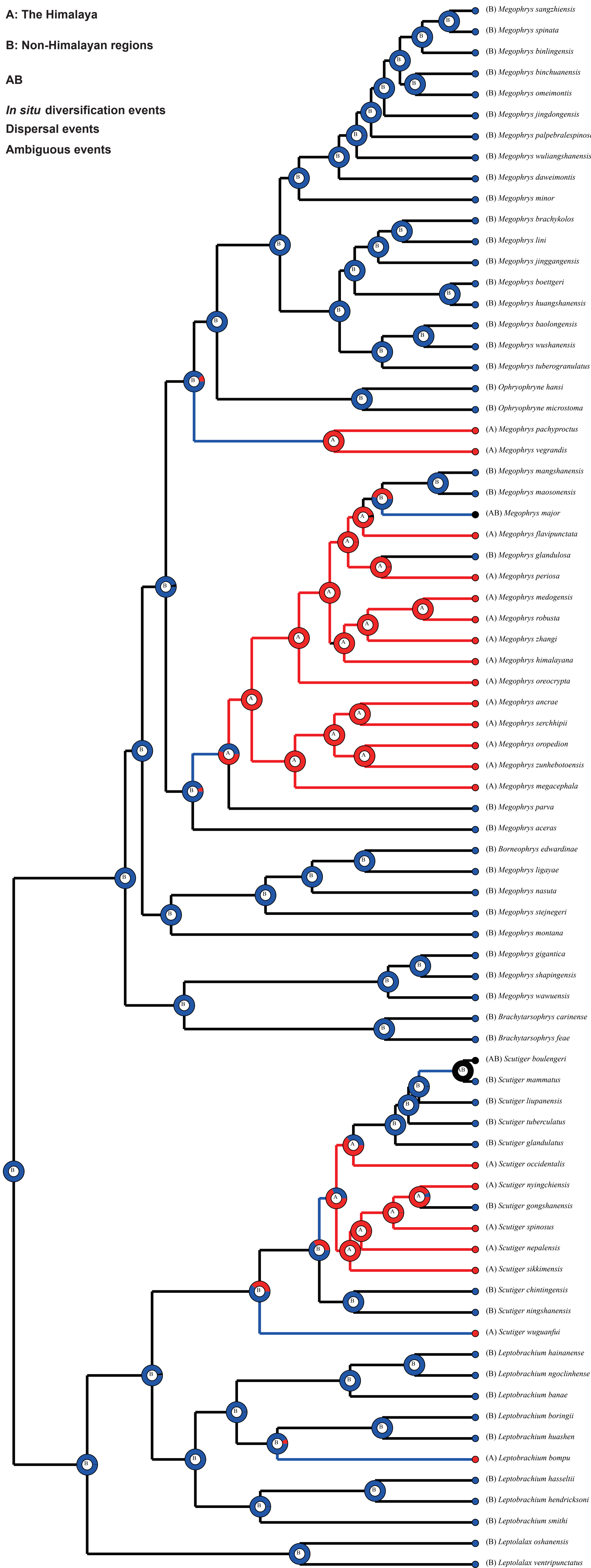
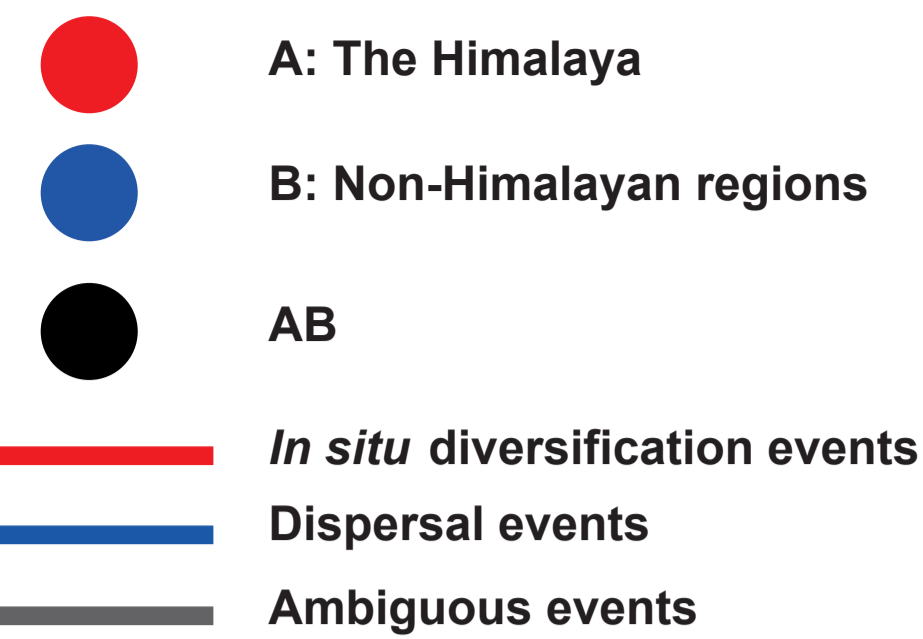
● **A: The Himalaya**
● **B: Non-Himalayan regions**
● **AB**
— **In situ diversification events**
— **Dispersal events**
— **Ambiguous events**



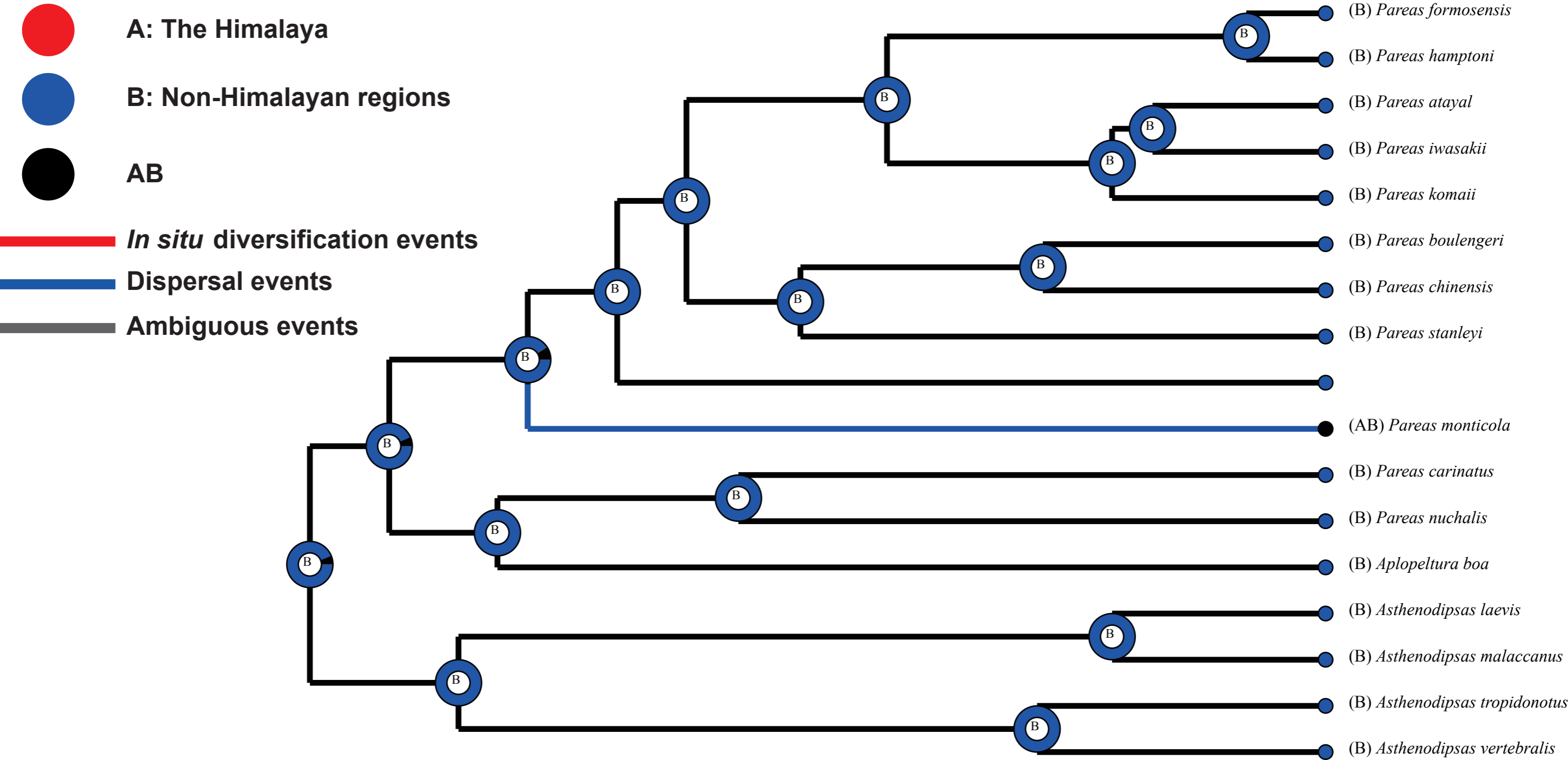
Gekkonidae



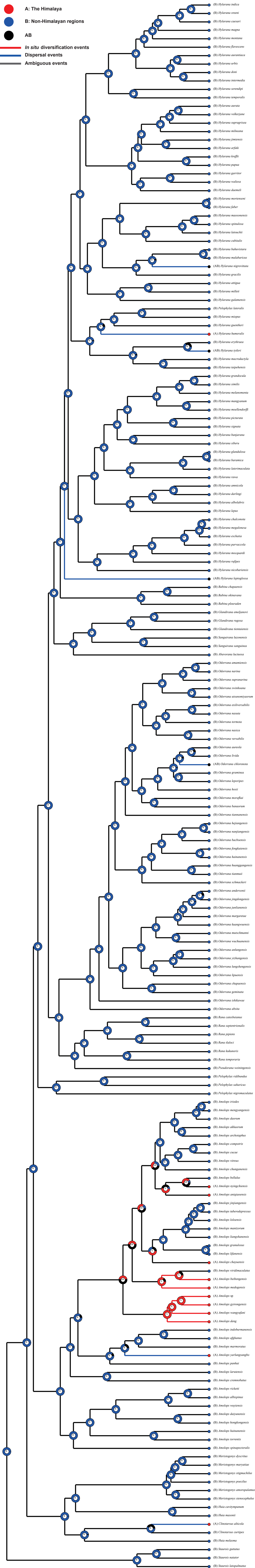
Megophryidae



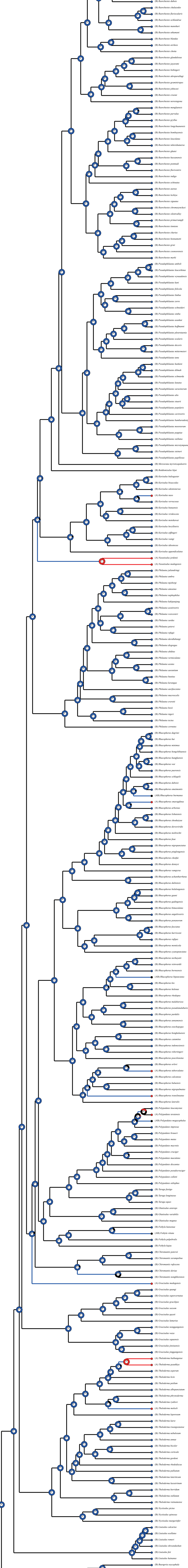
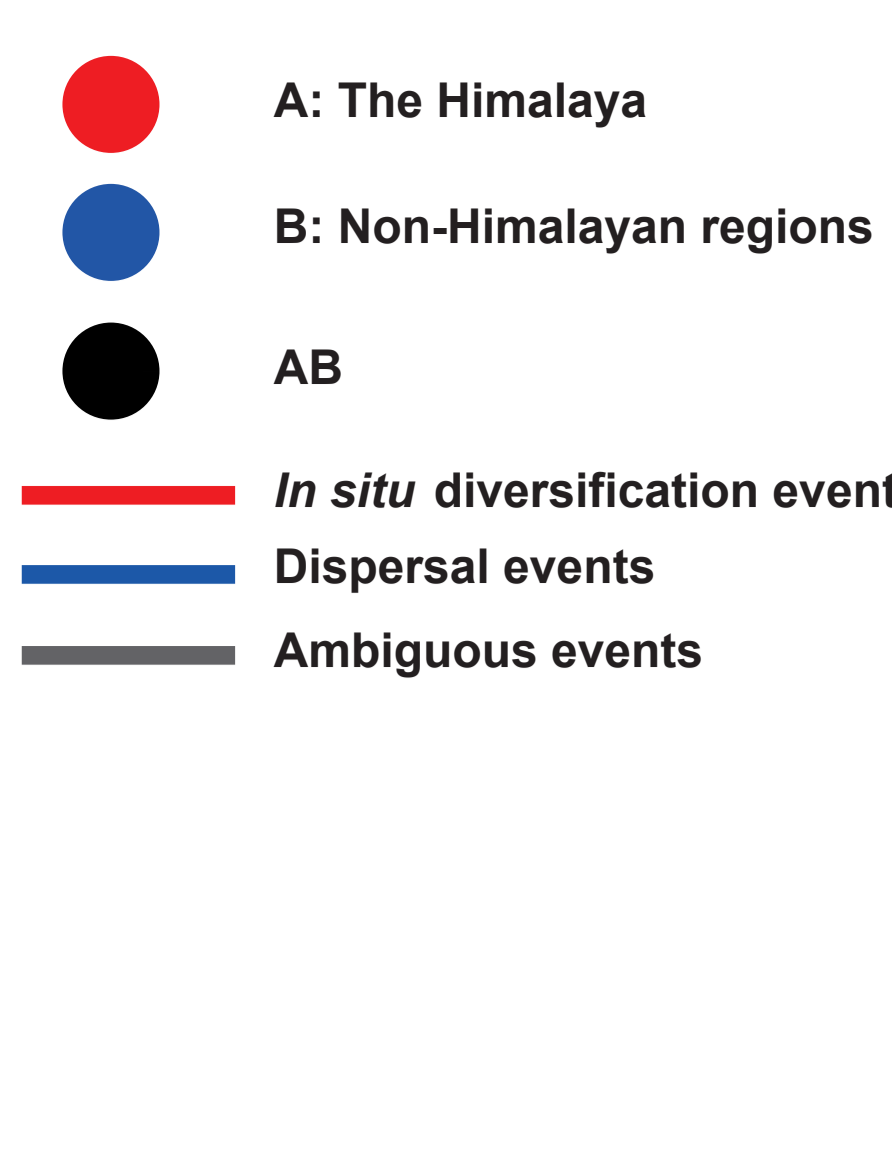
Pareidae



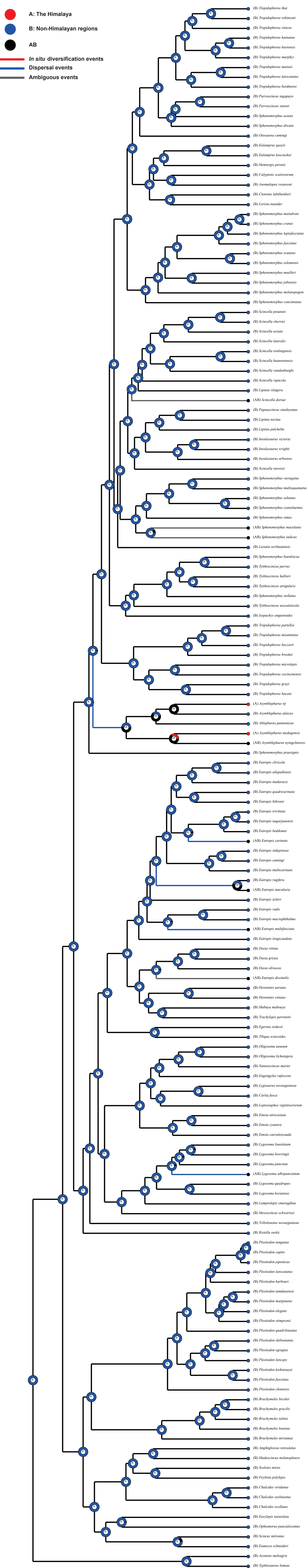
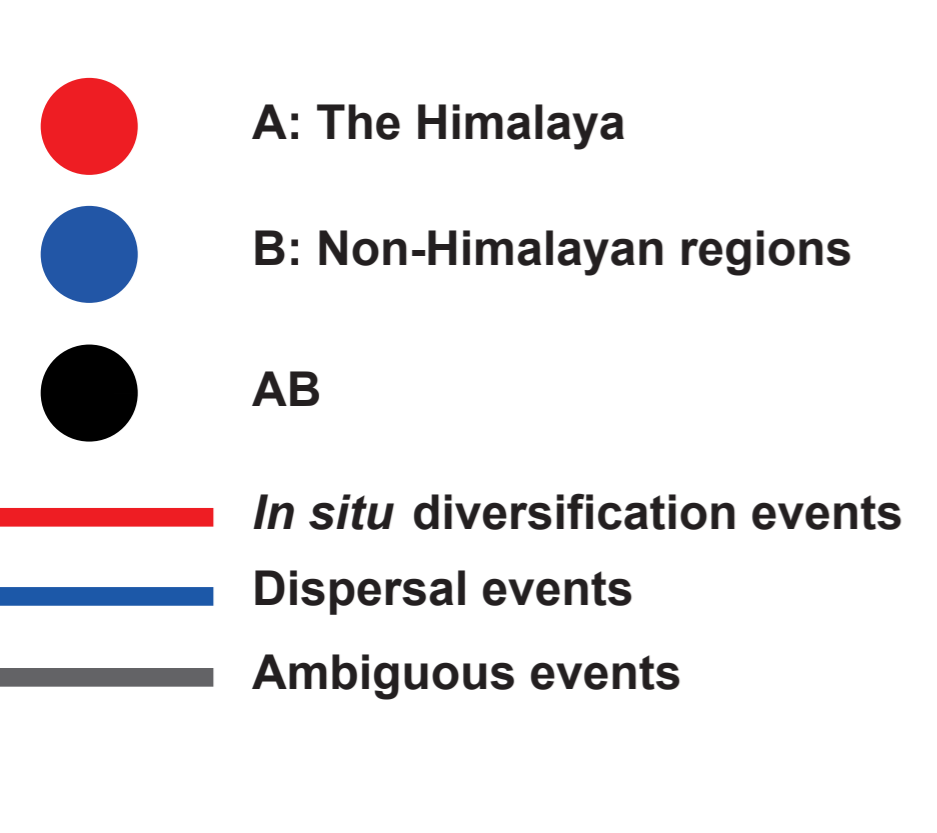
Ranidae



Rhacophoridae



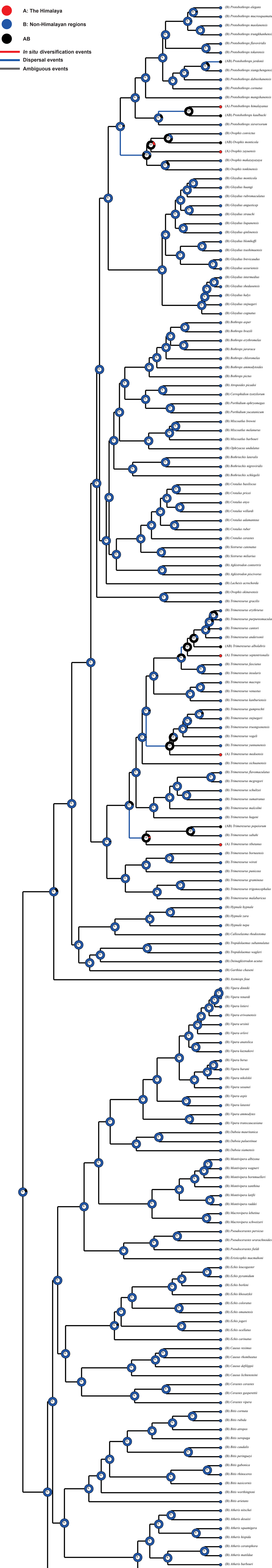
Scinidae



Viperidae

● A: The Himalaya
● B: Non-Himalayan regions
● AB

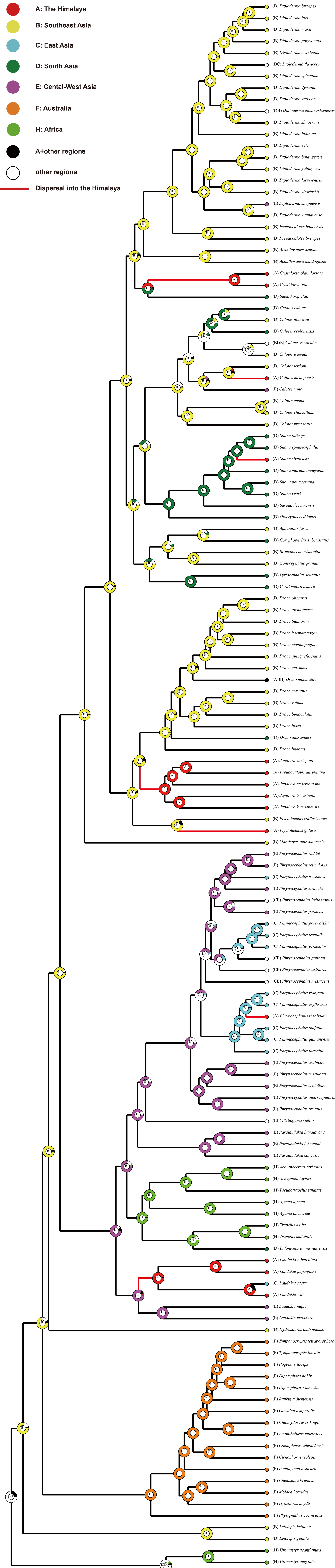
— *In situ* diversification events
— Dispersal events
— Ambiguous events



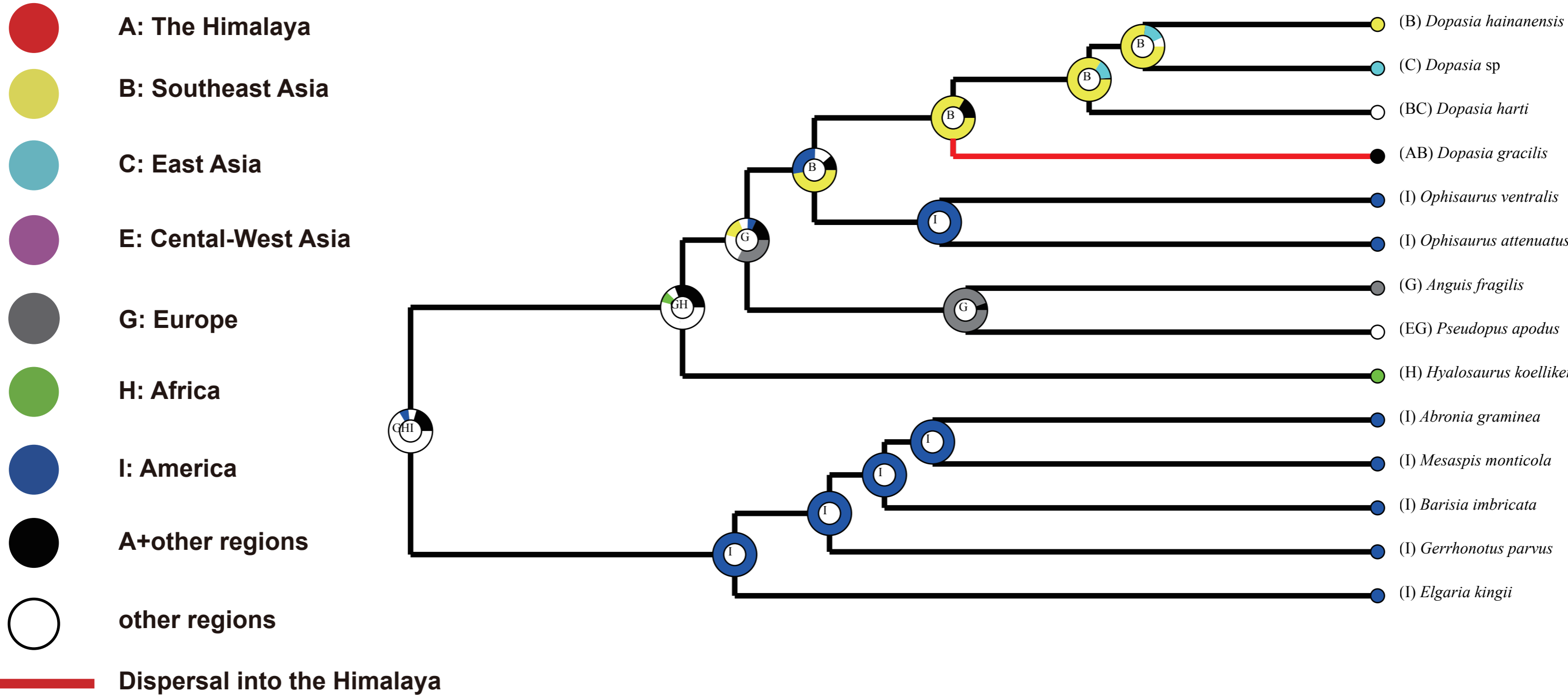
Data S4.

BioGeoBEARS analysis results based on nine regions. Trees with ancestral nodes reconstructed for specific biogeographic regions, indicated by the following letters and colors: Red (A): the Himalaya; red (B): Southeast Asia, including tropical regions of China, Malesia, and Papuasia; cyan (C): East Asia, the eastern boreal part of Russia and temperate regions of East Asia, including Japan and Taiwan; dark green (D): South Asia, south of the Himalaya, including Sri Lanka; purple (E): Central–West Asia, including the Pakistan, Uzbekistan, Tajikistan, The Arabia Peninsula countries); orange (F): Australia (and New Zealand); gray (G): Europe. light green (H): Africa; blue (I): America (north and south America); black: combined regions (the Himalaya and other regions like AB); white: other regions (etc., BCD). Red branches represent “dispersal into the Himalaya” events, black branches were not related to Himalayan diversification.

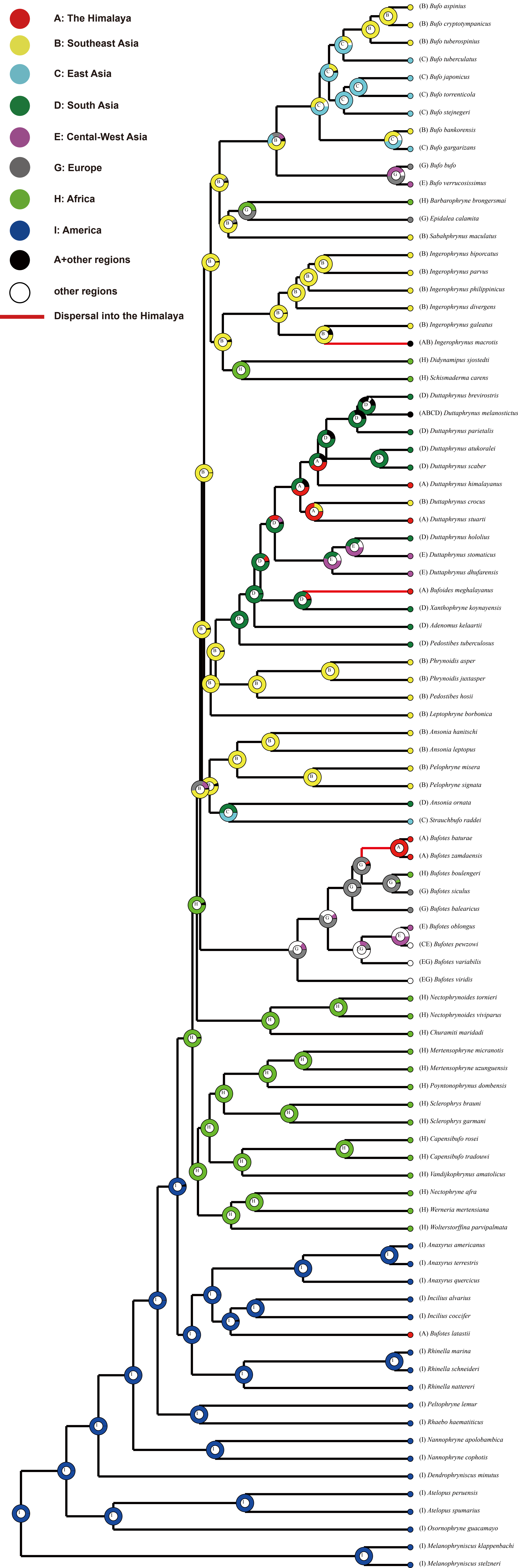
Agamidae



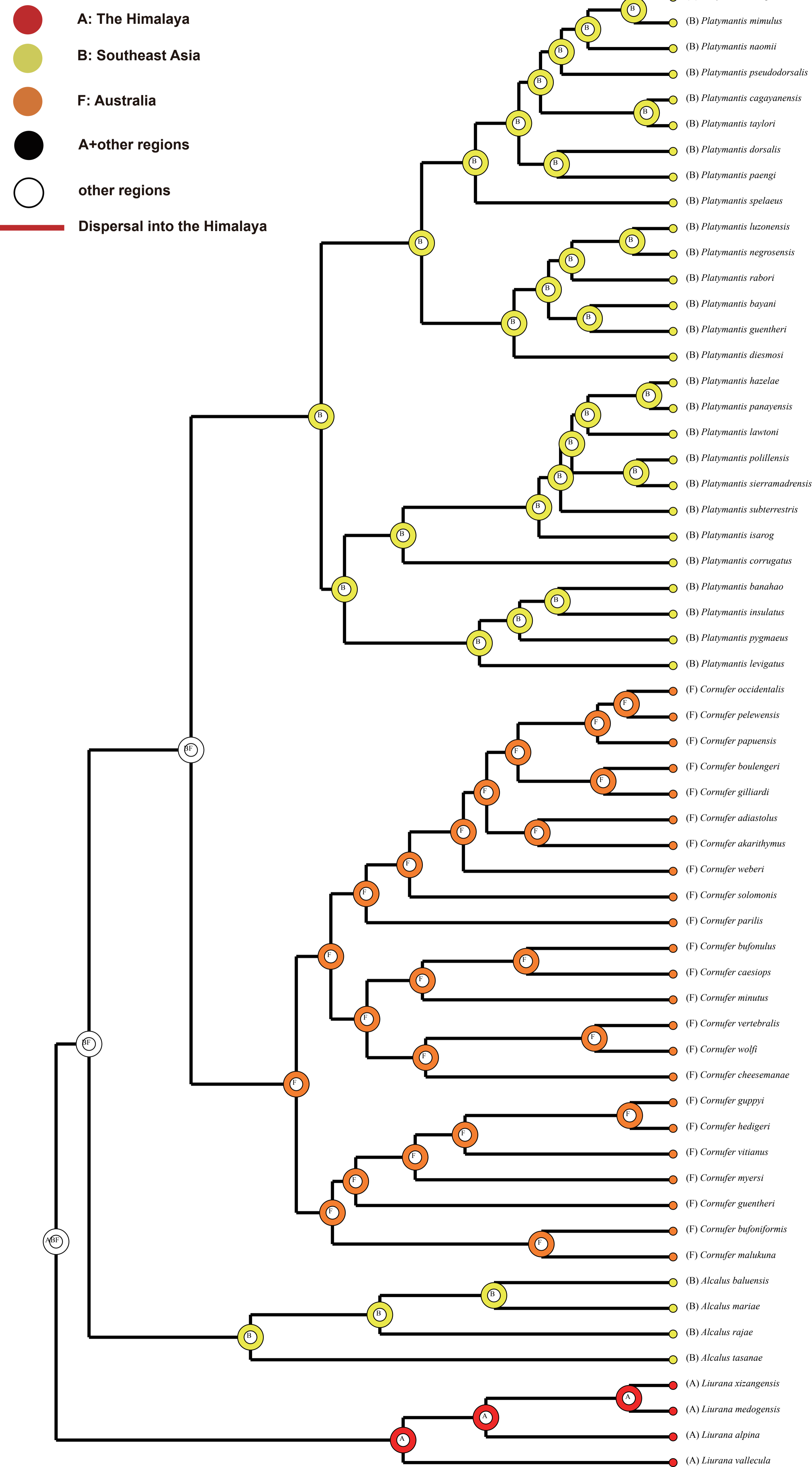
Anguidae



Bufonidae

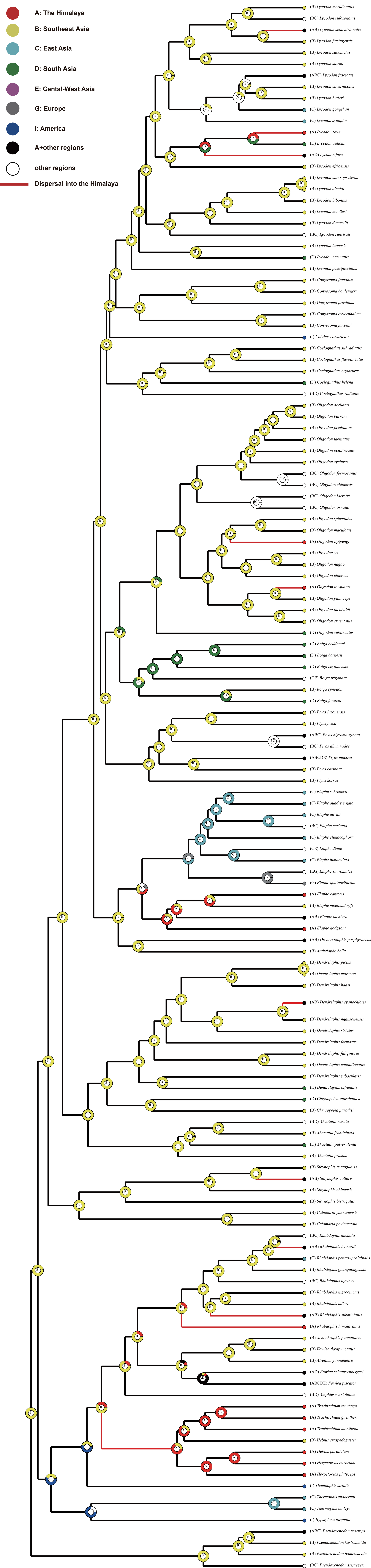


Ceratobatrachidae

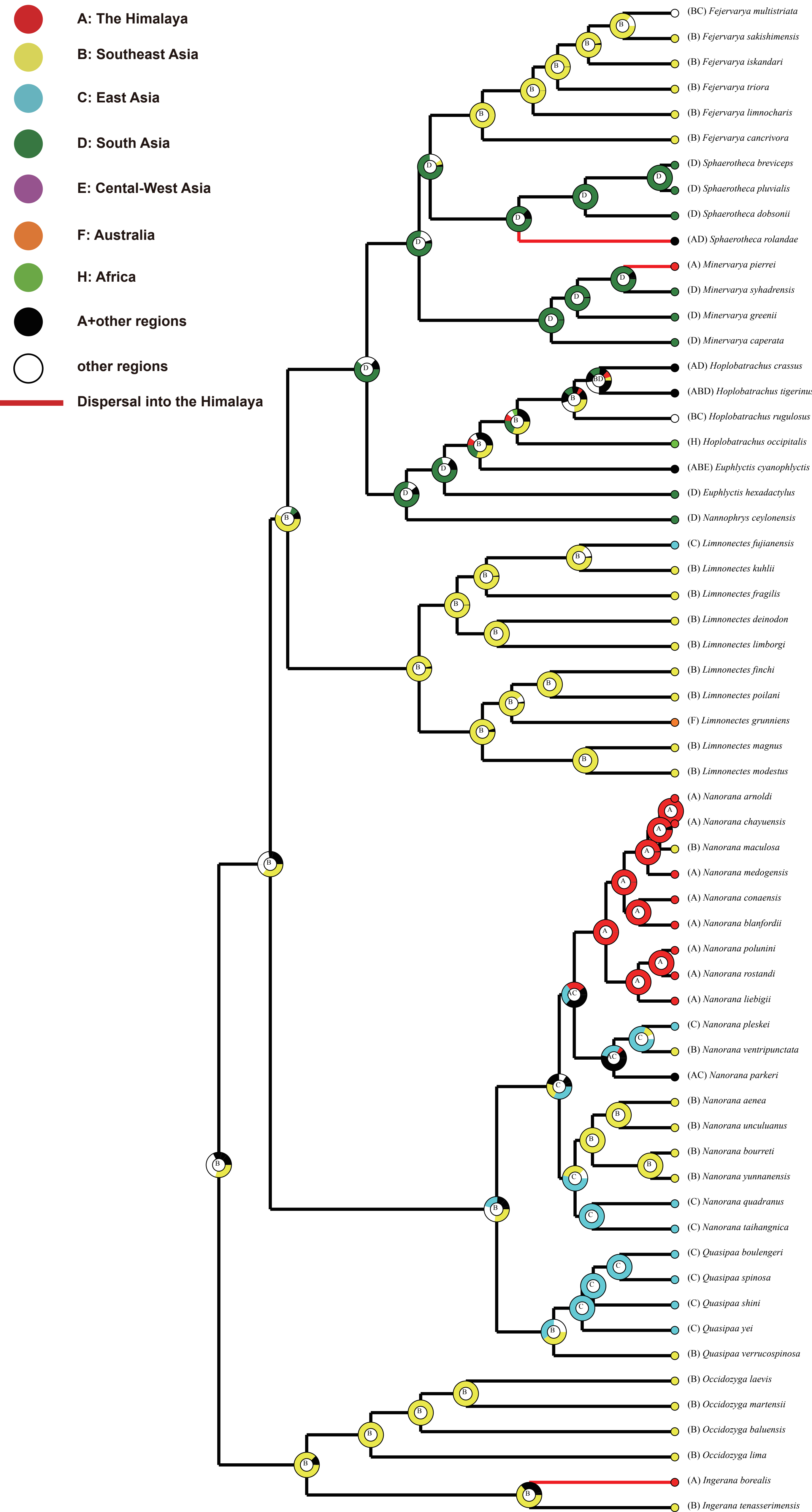


Colubridae

- **A: The Himalaya**
- **B: Southeast Asia**
- **C: East Asia**
- **D: South Asia**
- **E: Cental-West Asia**
- **G: Europe**
- **I: America**
- **A+other regions**
- other regions**
- **Dispersal into the Himalaya**

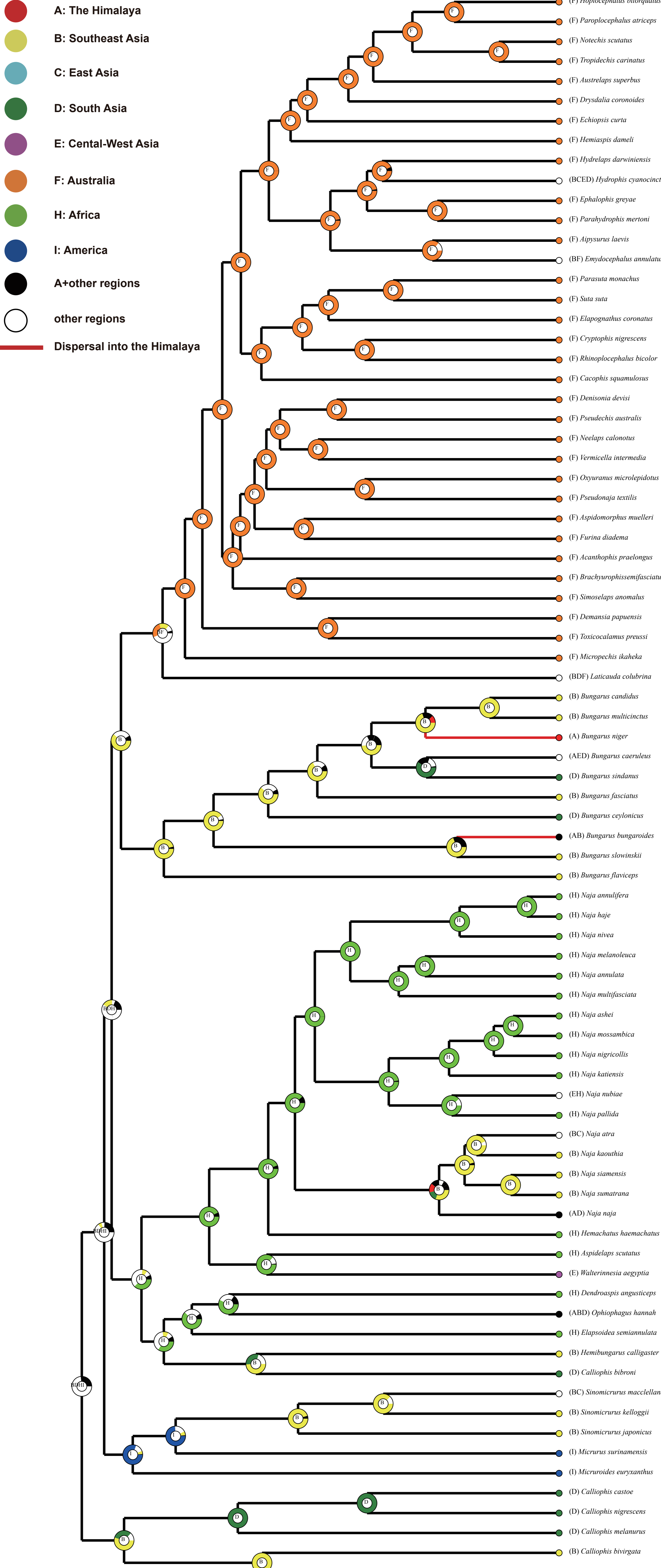


Dicroglossidae



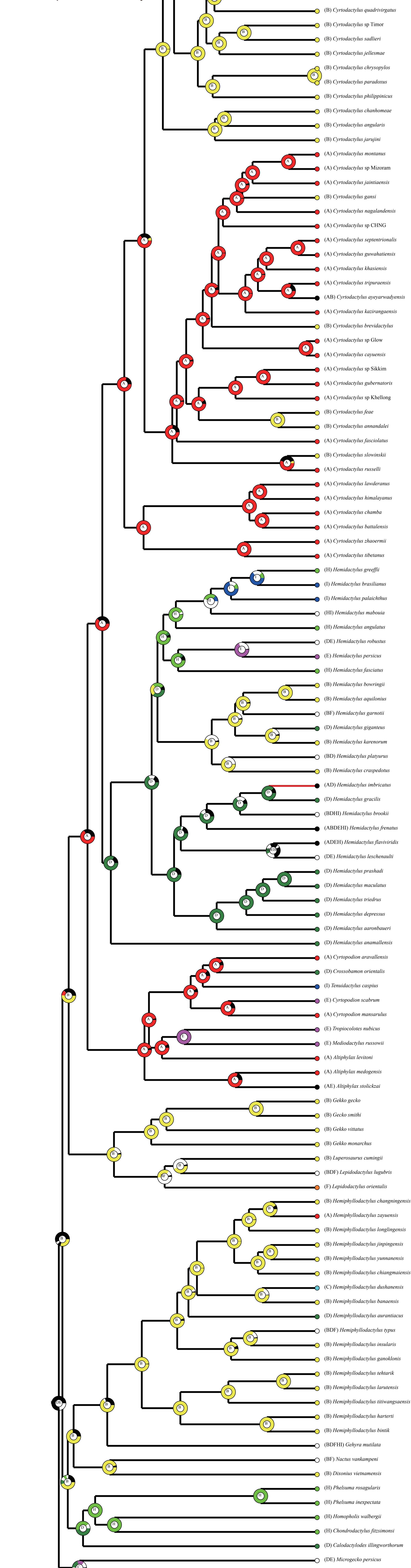
Elapidae

- **A: The Himalaya**
- **B: Southeast Asia**
- **C: East Asia**
- **D: South Asia**
- **E: Cental-West Asia**
- **F: Australia**
- **H: Africa**
- **I: America**
- **A+other regions**
- other regions**
- **Dispersal into the Himalaya**

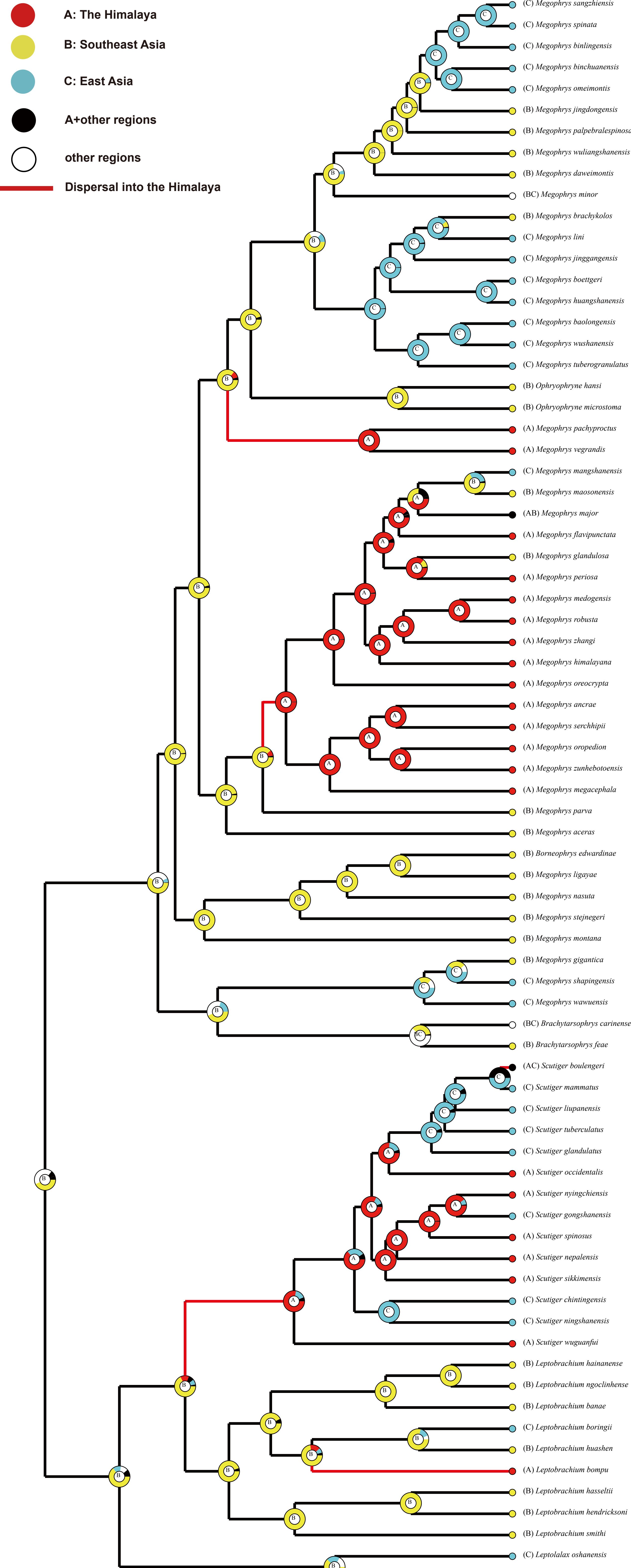


Gekkonidae

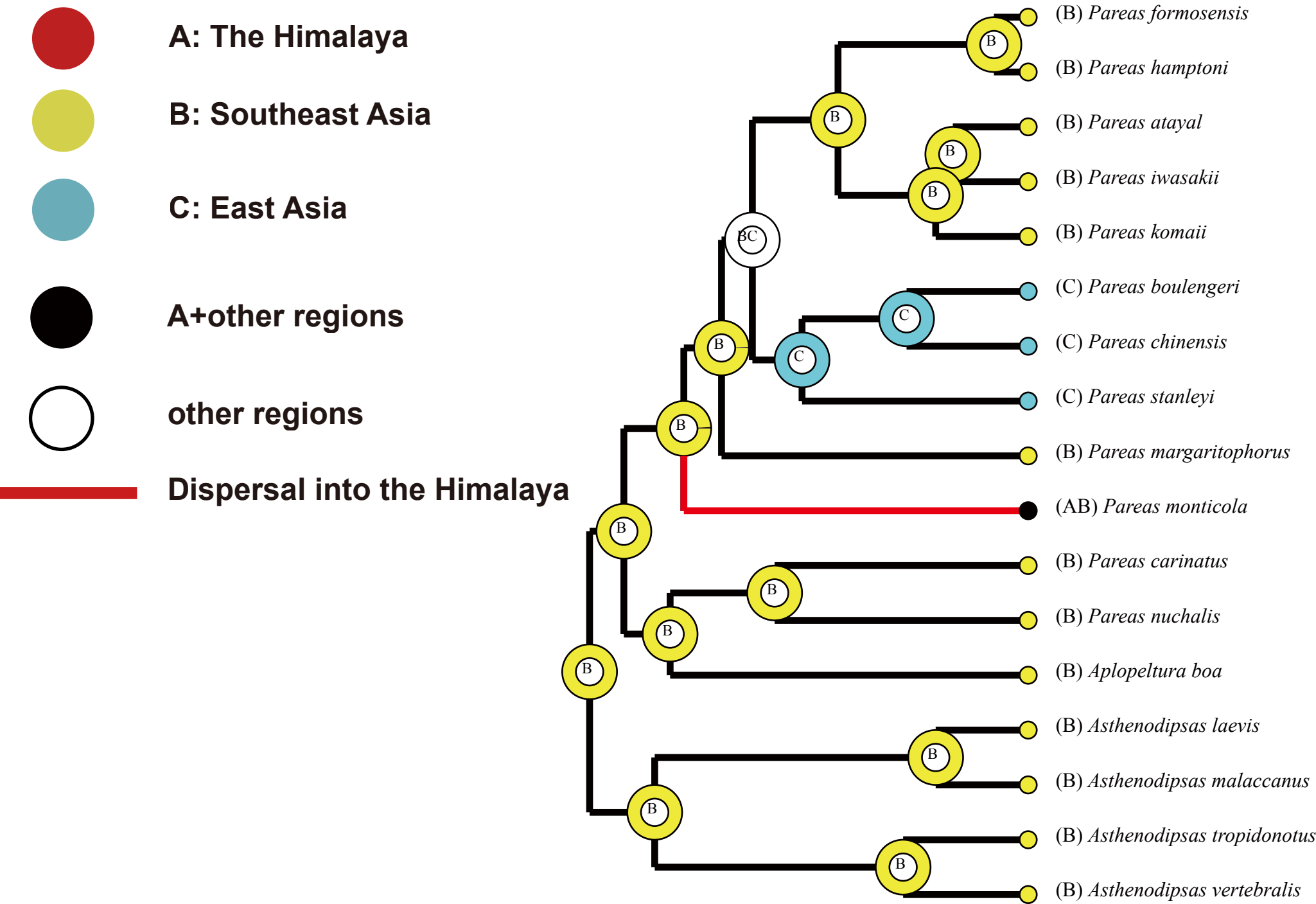
- **A: The Himalaya**
- **B: Southeast Asia**
- **C: East Asia**
- **D: South Asia**
- **E: Cental-West Asia**
- **F: Australia**
- **H: Africa**
- **I: America**
- **A+other regions**
- other regions**
- Dispersal into the Himalaya**



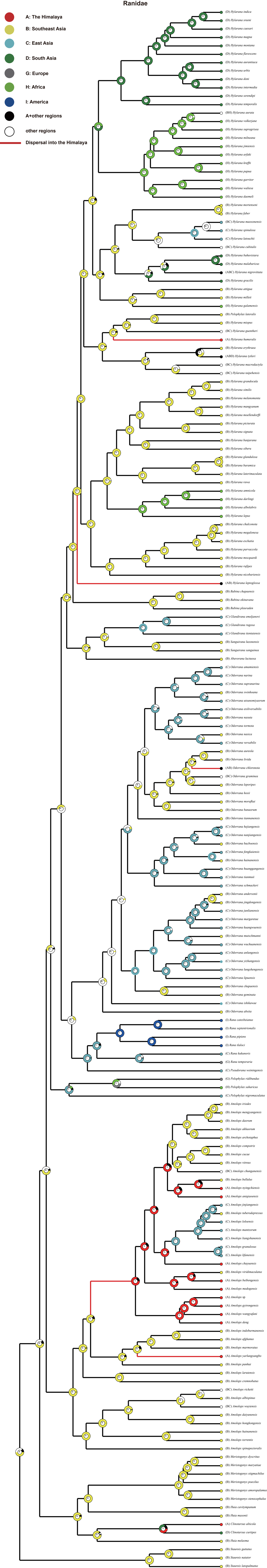
Megophryidae



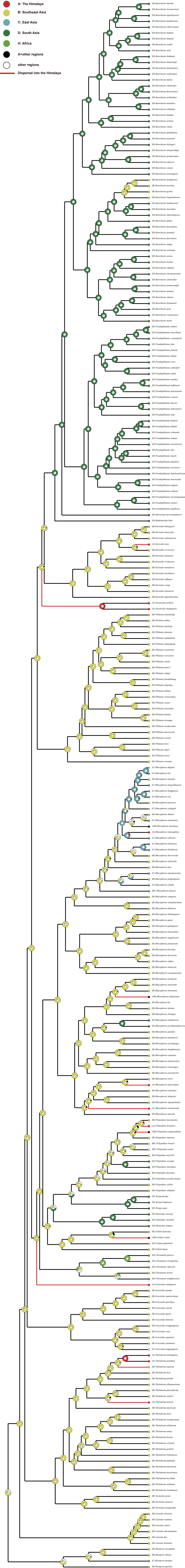
Pareidae



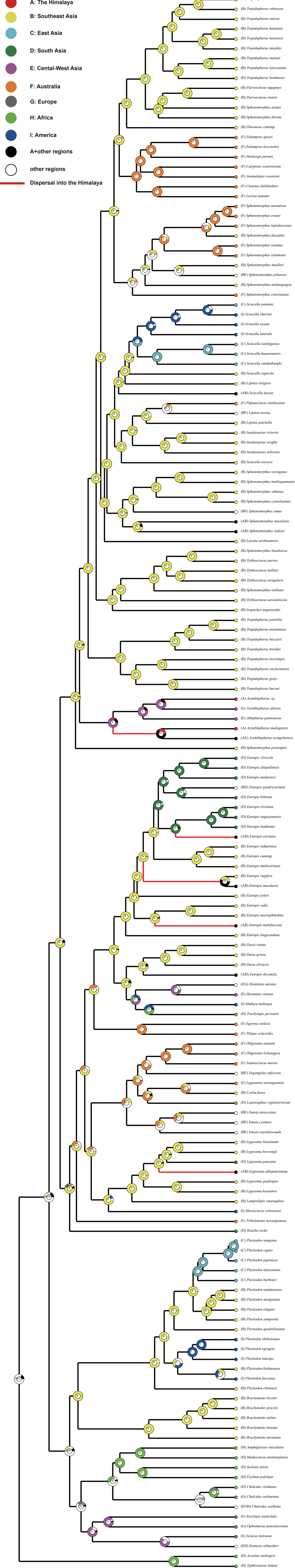
Ranidae



Rhacophoridae

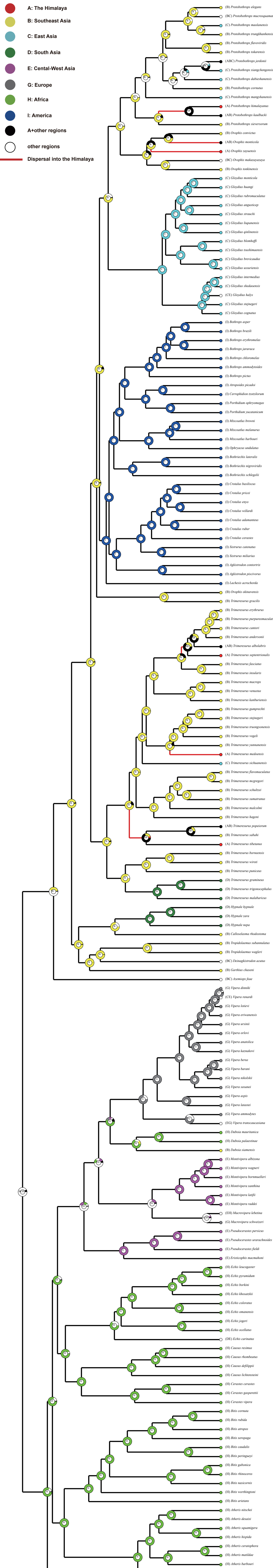


Scinidae



Viperidae

- **A: The Himalaya**
- **B: Southeast Asia**
- **C: East Asia**
- **D: South Asia**
- **E: Cental-West Asia**
- **G: Europe**
- **H: Africa**
- **I: America**
- **A+other regions**
- other regions**
- **Dispersal into the Himalaya**



Data S5.

Sequences information in this study divided by family. Sequences obtained newly in this study are marked in bold.

Ranidae

Species	16s	COI	ND3	ND2	12s
Abavorana_luctuosa	KY982539	-	-	-	KF477635
Amnirana_albolabris	KR264062	-	-	-	-
Amnirana_amicola	KX289630	-	-	-	-
Amnirana_darlingi	KR264121	-	-	-	-
Amnirana_galamensis	KF991278	-	-	-	-
Amnirana_lepus	KR264067	-	-	-	-
Amnirana_nicobariensis	AB530582	-	-	-	KP298048
Amolops_afghanus	MN953654	-	-	MN958713	-
Amolops_akhaorum	FJ417158	-	-	FJ417207	-
Amolops_albispinus	KX507312	KX507332	-	-	-
Amolops_aniqiaoensis	MN953655	KU243073	-	MN958714	-
Amolops_aniqiaoensis	MN953656	-	-	MN958715	-
Amolops_archotaphus	MN953659	-	-	MN958718	-
Amolops_beibengensis	MN953662	-	-	MN958721	-
Amolops_bellulus	DQ204473	KU243079	FJ417225	FJ417176	DQ204429
Amolops_chayuensis	MN953666	KU243075	-	MN958725	-
Amolops_chunganensis	KX507310	KX507330	KX645666	KX645666	KX645666
Amolops_compotrix	FJ417141	-	FJ417239	FJ417190	-
Amolops_cremnobatus	MN953672	-	FJ417241	MN958730	-
Amolops_cucae	FJ417145	-	FJ417243	FJ417194	-
Amolops_daiyunensis	MW023599	KX507328	-	MW111442	MG991855
Amolops_daorum	MN953678	-	FJ417249	MN958736	AF206101
Amolops_granulosus	MN953680	-	-	MN958738	DQ204436
Amolops_gyirongensis	MN953682	-	-	MN958739	-
Amolops_gyirongensis	MN953683	-	-	MN958740	-
Amolops_hainanensis	MN953688	KX507342	-	MN958745	MG991858
Amolops_hongkongensis	MN953689	MG991921	-	MN958746	MG991861
Amolops_indoburmanensis	MN953692	-	-	MN958749	MG909644
Amolops_deng	MN953695	-	-	MN958752	-
Amolops_deng	MW023600	-	-	MW111443	-
Amolops_iriodes	FJ417152	-	FJ417250	FJ417201	-
Amolops_jinjiangensis	MN953700	-	-	MN958757	EF453726
Amolops_larutensis	AB211484	-	-	-	AB211461
Amolops_liangshanensis	EF453743	-	-	MN958812	EF453728
Amolops_lifanensis	MN953702	JN700797	-	MN958760	-
Amolops_loloensis	MN953757	NC_029250	NC_029250	MN958814	DQ204439
Amolops_mantzorum	MW023601	NC_024180	FJ417253	MW111444	NC_024180
Amolops_marmoratus	MN953708	MG935420	EU861515	MN958766	MG909645
Amolops_medogensis	MN953710	KU243076	-	MN958768	-
Amolops_medogensis	MN953711	-	-	MN958769	-
Amolops_mengyangensis	KR827703	KR087618	-	-	-

Amolops_nyingchiensis	MN953715	KU243071	-	MN958773	-
Amolops_nyingchiensis	MN953716	-	-	MN958774	-
Amolops_panhai	MN953720	KR087621	-	MN958778	MG909646
Amolops_ricketti	MW023602	NC_023949	NC_023949	MW111445	NC_023949
Amolops_sp	MW023603	-	-	MW111446	-
Amolops_spinapectoralis	MN953769	-	FJ417259	MN958826	DQ204444
Amolops_torrentis	EF453744	MG991932	-	MN958784	MG991872
Amolops_tuberodepressus	MN953729	KR559270	FJ417260	MN958786	KR559270
Amolops_viridimaculatus	MN953731	-	-	MN958788	DQ204446
Amolops_vitreus	FJ417163	-	FJ417261	FJ417212	-
Amolops_wangyufani	MN953741	-	-	MN958797	-
Amolops_wangyufani	MN953740	-	-	MN958796	-
Amolops_wuyiensis	MW023604	KX507325	KM282625	MW111447	KM282625
Amolops_yarlungzangbo	MN953744	-	-	MN958800	-
Amolops_yarlungzangbo	MN953745	-	-	MN958801	-
Babina_chapaensis	KU840598	KR087625	-	-	KU840523
Babina_okinavana	NC_022872	NC_022872	NC_022872	NC_022872	NC_022872
Babina_pleuraden	KR264059	HQ395351	KF771303	-	-
Chalcorana_chalconota	AB530588	-	-	-	-
Chalcorana_eschatia	KR264083	-	-	-	-
Chalcorana_megalonesa	KR264085	-	-	-	-
Chalcorana_mocquardi	KR264100	-	-	-	-
Chalcorana_parvaccola	KR264082	-	-	-	-
Chalcorana_rufipes	KR264081	-	-	-	-
Clinotarsus_alticola	MG909604	-	-	-	MG909673
Clinotarsus_curtipes	KM069013	KM069121	-	-	-
Glandirana_emeljanovi	KF771343	KF771343	KF771343	KF771343	KF771343
Glandirana_rugosa	KF771341	KF771341	KF771341	KF771341	KF771341
Glandirana_tientaiensis	KF771342	KF771342	KF771342	KF771342	KF771342
Huia_cavitympanum	KU840576	-	FJ417216	FJ417167	MG909681
Huia_cavitympanum	AB211489	-	-	-	AB211466
Huia_masonii	KP298037	-	-	-	KP298037
Huia_melasma	MG909601	-	-	-	MG909675
Humerana_humeralis	KU589224	-	-	-	-
Humerana_miopus	KR827778	KR087686	-	-	-
Hydrophylax_bahuvistara	KT334413	-	-	-	-
Hydrophylax_gracilis	KM068934	KM069041	-	-	-
Hydrophylax_leptoglossa	AB530527	-	-	-	-
Hydrophylax_malabaricus	KM068968	KM069075	-	-	-
Hylarana_attigua	EU754872	-	-	-	-
Hylarana_erythraea	KR827794	-	-	-	-
Hylarana_latouchii	KF771284	KF771284	-	-	-
Hylarana_macroductyla	KR264120	-	-	-	-
Hylarana_taipehensis	KR264041	-	-	-	-

Hylarana_tytleri	KR264119	-	-	-	-
Indosylvirana_caesari	KM068915	KM069022	-	-	-
Indosylvirana_aurantiaca	KM068907	KM069014	-	-	-
Indosylvirana_doni	KM068922	KM069029	-	-	-
Indosylvirana_flavescens	KM068930	KM069037	-	-	-
Indosylvirana_indica	KM068943	KM069050	-	-	-
Indosylvirana_intermedia	KM068956	KM069063	-	-	-
Indosylvirana_magna	KM068964	KM069071	-	-	-
Indosylvirana_milleti	KR827825	-	-	-	-
Indosylvirana_montana	KM068972	KM069079	-	-	-
Indosylvirana_serendipi	KM068979	KM069086	-	-	-
Indosylvirana_sreeni	KM068987	KM069095	-	-	-
Indosylvirana_temporalis	KM069000	KM069108	-	-	-
Indosylvirana_urbis	KM069006	KM069114	-	-	-
Meristogenys_amoropalamus	AB526619	-	-	AB526619	AB360011
Meristogenys_dyscritus	AB526616	-	-	AB526616	AB526616
Meristogenys_maryatiae	AB526611	-	-	AB526611	AB360046
Meristogenys_poecilus	AB526610	-	-	-	AB526610
Meristogenys_stenocephalus	AB526612	-	-	-	AB526612
Meristogenys_stigmachilus	AB526614	-	-	-	AB526614
Odorrana_absita	EU861542	-	EU861516	EU861568	-
Odorrana_amamiensis	AB200947	-	-	-	AB200923
Odorrana_andersonii	KF185057	JN700826	KF771312	-	DQ359965
Odorrana_anlungensis	KF185049	-	-	-	KF185013
Odorrana_aureola	DQ650568	-	DQ650437	DQ650504	-
Odorrana_bacboensis	DQ650569	-	-	-	-
Odorrana_banaorum	DQ650586	-	DQ650455	DQ650522	-
Odorrana_chapaensis	KX893901	KR087835	EU861527	EU861579	DQ204431
Odorrana_chloronota	DQ283394	-	-	-	DQ283394
Odorrana_exiliversabilis	KF185056	-	-	-	KF185020
Odorrana_fengkaiensis	KT315375	-	-	-	KT315354
Odorrana_geminata	EU861546	-	EU861520	EU861572	-
Odorrana_graminea	KF185038	-	-	-	KF185002
Odorrana_hainanensis	NC_034984	NC_034984	NC_034984	NC_034984	NC_034984
Odorrana_hejiangensis	KF185052	-	-	-	KF185016
Odorrana_hosii	MG935960	MG935666	DQ650471	DQ650539	KU840535
Odorrana_huanggangensis	KF185059	-	-	-	KF185023
Odorrana_ishikawae	AB511282	AB511282	AB511282	AB511282	AB511282
Odorrana_jingdongensis	KF185050	KR087840	-	-	KF185014
Odorrana_jingdongensis	FJ417120	-	FJ417218	FJ417169	-
Odorrana_junlianensis	KF185058	-	-	-	KF185022
Odorrana_kuangwuensis	KF185034	-	-	-	KF184998
Odorrana_leporipes	KF185036	-	-	-	KF185000
Odorrana_lipuensis	KM388699	-	-	-	-

<i>Odorrana livida</i>	DQ650615	-	-	-	-
<i>Odorrana lungshengensis</i>	KF185054	-	-	-	KF185018
<i>Odorrana margaretae</i>	EU861566	KR087843	EU861540	EU861592	KT315371
<i>Odorrana morafkai</i>	DQ650632	-	DQ650498	DQ650562	KU840526
<i>Odorrana mutschmanni</i>	KU356765	-	-	-	KU356761
<i>Odorrana nanjiangensis</i>	KF185042	-	-	-	KF185006
<i>Odorrana narina</i>	AB511287	-	-	-	AB511287
<i>Odorrana nasica</i>	DQ283345	-	-	-	DQ283345
<i>Odorrana nasuta</i>	KF185053	-	-	-	KF185017
<i>Odorrana schmackeri</i>	KF185047	KP732086	KP732086	KP732086	KF185011
<i>Odorrana supranarina</i>	AB200950	-	-	-	AB200926
<i>Odorrana swinhoana</i>	AB200953	-	-	-	AB200929
<i>Odorrana tianmuui</i>	KF185040	-	-	-	KF185004
<i>Odorrana tiannanensis</i>	EF453751	KR087851	-	-	EF453736
<i>Odorrana tormota</i>	DQ835616	DQ835616	DQ835616	DQ835616	DQ835616
<i>Odorrana utsunomiyaorum</i>	AB200952	-	-	-	AB200928
<i>Odorrana versabilis</i>	KF185055	-	-	-	KF185019
<i>Odorrana wuchuanensis</i>	KF185043	KU680791	KU680791	KU680791	KF185007
<i>Odorrana yizhangensis</i>	KF185048	-	-	-	KF185012
<i>Papurana daemeli</i>	KR264056	-	-	-	-
<i>Papurana arfaki</i>	KR264048	-	-	-	-
<i>Papurana aurata</i>	KR264101	-	-	-	-
<i>Papurana garritor</i>	KR264042	-	-	-	-
<i>Papurana jimienensis</i>	KR264053	-	-	-	EU004610
<i>Papurana krefftii</i>	KR264050	-	-	-	-
<i>Papurana milneana</i>	KR264044	-	-	-	-
<i>Papurana papua</i>	KR264054	-	-	-	-
<i>Papurana supragrisea</i>	KR264058	-	-	-	-
<i>Papurana volkerjane</i>	KR264105	-	-	-	-
<i>Papurana waliesia</i>	KR264046	-	-	-	-
<i>Pelophylax lateralis</i>	KF991279	MG935537	-	-	AF206098
<i>Pelophylax nigromaculatus</i>	KT878718	KT878718	KT878718	KT878718	KT878718
<i>Pelophylax ridibundus</i>	MH410481	KT879314	MH410361	KJ160682	AB640897
<i>Pelophylax saharicus</i>	KP177671	KP177812	GU812242	GU812146	-
<i>Pseudorana weiningensis</i>	DQ359996	-	-	KX269432	KX269217
<i>Pulchrana banjarana</i>	KF477645	-	-	-	KF477645
<i>Pulchrana baramica</i>	KF052066	-	-	-	-
<i>Pulchrana glandulosa</i>	AB719226	-	-	-	AB719209
<i>Pulchrana grandocula</i>	KF477662	-	-	-	KF477662
<i>Pulchrana laterimaculata</i>	AB719228	-	-	-	AB719211
<i>Pulchrana mangyanum</i>	KF477685	-	-	-	KF477685
<i>Pulchrana melanomenta</i>	KF477692	-	-	-	KF477692
<i>Pulchrana moellendorffi</i>	KF477696	-	-	-	KF477696
<i>Pulchrana picturata</i>	KR264070	-	-	-	-

Pulchrana_rawa	AB719222	-	-	-	AB719205
Pulchrana_siberu	KF477741	-	-	-	KF477741
Pulchrana_signata	KF052074	-	-	-	-
Pulchrana_similis	KR264078	-	-	-	-
Rana_catesbeianus	NC_022696	NC_022696	NC_022696	NC_022696	NC_022696
Rana_kukunoris	KX269185	NC_035804	NC_035804	KX269401	KX269185
Rana_pipiens	X86284	EF525892	-	-	Y10945
Rana_septentrionalis	KX269179	EF525899	-	AY206487	KX269179
Rana_temporaria	AB058882	KP697915	-	AF314018	AB058864
Rana_tlaloci	AY779234	-	-	KX269393	AY779234
Sanguirana_luzonensis	KT881700	-	-	-	KP298050
Sanguirana_sanguinea	KP298051	-	-	-	KP298051
Staurois_guttatus	MG909607	-	-	-	MG909682
Staurois_latopalmodus	FJ417117	-	FJ417215	FJ417166	-
Staurois_natator	DQ347312	-	-	-	-
Sylvirana_cubitalis	KR264077	-	-	-	-
Sylvirana_faber	KR827803	KR087706	-	-	-
Sylvirana_guentheri	NC_024748	NC_024748	NC_024748	NC_024748	NC_024748
Sylvirana_maosonensis	KR827809	-	-	-	-
Sylvirana_mortenseni	MG606638	-	MG607315	MG606971	KU840542
Sylvirana_nigrovittata	KF739002	-	-	-	-
Sylvirana_spinulosa	KR264093	-	-	-	-
Outgroup					
Buergeria_oxycephalus	KU244359	KU244459	-	-	-
Cacosternum_magnaglandiferus	KJ461733	-	-	DQ251462	DQ022321
Conraua_crassipes	DQ022355	KY079583	-	-	DQ022324
Cornufer_guentheri	KP298021	AY883979	-	-	DQ283198
Mantidactylus_guttulatus	FJ559237	KF611529	-	-	-
Phrynomantis_anelectus	AF215377.2	EF396060	-	-	-
Odontobatrachus_natator	KP284863	-	-	-	KP005222
Phrynodon_sandersoni	DQ283083	-	-	-	DQ283083
Ptychadena_cooperi	-	KF380535	-	-	-
					EU979664-
Quasipaa_delacouri	EU979810	-	-	-	EU979750
Kurixalus_verrucosus	KX554502	KX554568	-	-	KC465825
Theloderma_corticale	KU244365	KU244453	-	-	-
Species	Cytb	RAG1	Tyr	RAG2	Rhod
Abavorana_luctuosa	-	KR264407	KR264482	-	-
Amnirana_albolabris	KR264152	-	-	-	-
Amnirana_amicola	-	-	-	-	-
Amnirana_darlingi	KR264208	KR264430	KR264506	-	-
Amnirana_galamensis	-	-	-	-	-
Amnirana_lepus	KR264157	KR264390	KR264458	-	-
Amnirana_nicobariensis	KR264189	KU840721	KU840777	-	KU840659

Amolops_afghanus	-	MW111381	MW111304	-	-
Amolops_akhaorum	-	FJ417291	FJ417324	-	-
Amolops_albispinus	-	-	-	-	-
Amolops_aniqiaoensis	-	MW111382	MW111305	-	-
Amolops_aniqiaoensis	-	MW111383	MW111306	-	-
Amolops_archotaphus	-	MW111384	MW111307	-	-
Amolops_beibengensis	-	MW111385	MW111308	-	-
Amolops_bellulus	-	FJ417267	FJ417300	-	-
Amolops_chayuensis	-	MW111386	MW111309	-	-
Amolops_chunganensis	KX645666	MW111387	MW111310	-	-
Amolops_compotrix	-	EF088235	EU076757	-	-
Amolops_cremnobatus	-	MW111388	MW111311	-	-
Amolops_cucae	-	FJ417284	FJ417317	-	-
Amolops_daiyunensis	-	MW111389	MW111312	-	-
Amolops_daorum	-	MW111390	MW111313	-	-
Amolops_granulosus	-	MW111391	MW111314	-	-
Amolops_gyirongensis	-	MW111392	MW111315	-	-
Amolops_gyirongensis	-	MW111393	MW111316	-	-
Amolops_hainanensis	-	MW111394	MW111317	DQ019518	KU840677
Amolops_hongkongensis	-	MW111395	MW111318	-	-
Amolops_indoburmanensis	-	MW111396	MW111319	-	-
Amolops_deng	-	MW111397	MW111320	-	-
Amolops_deng	-	MW111398	MW111321	-	-
Amolops_iriodes	-	FJ417289	FJ417322	-	-
Amolops_jinjiangensis	-	MW111399	MW111322	-	-
Amolops_larutensis	-	DQ347279	DQ347186	-	-
Amolops_liangshanensis	-	MW111400	MW111323	-	-
Amolops_lifanensis	-	MW111401	MW111324	-	-
Amolops_loloensis	NC_029250	MW111402	MW111325	-	-
Amolops_mantzorum	NC_024180	MW111403	MW111326	-	-
Amolops_marmoratus	AB259738	MW111404	MW111327	-	-
Amolops_medogensis	-	MW111405	MW111328	-	-
Amolops_medogensis	-	MW111406	MW111329	-	-
Amolops_mengyangensis	-	-	-	-	-
Amolops_ningchiensis	-	MW111407	MW111330	-	-
Amolops_ningchiensis	-	MW111408	MW111331	-	-
Amolops_panhai	-	MW111409	MW111332	-	-
Amolops_ricketti	NC_023949	MW111410	MW111333	-	DQ360009
Amolops_sp	-	MW111411	MW111334	-	-
Amolops_spinapectoralis	-	MW111412	MW111335	-	-
Amolops_torrentis	-	MW111413	MW111336	-	-
Amolops_tuberodepressus	KR559270	MW111414	MW111337	-	-
Amolops_viridimaculatus	-	MW111415	MW111338	-	-
Amolops_vitreus	-	FJ417295	FJ417328	-	-

Amolops_wangyufani	-	MW111416	MW111339	-	-
Amolops_wangyufani	-	MW111417	MW111340	-	-
Amolops_wuyiensis	KM282625	MW111418	MW111341	-	-
Amolops_yarlungzangbo	-	MW111419	MW111342	-	-
Amolops_yarlungzangbo	-	MW111420	MW111343	-	-
Babina_chapaensis	KR264164	KR264393	DQ282981	-	DQ283987
Babina_okinavana	NC_022872	-	-	-	-
Babina_pleuraden	KR264150	KR264384	KR264453	-	-
Chalcorana_chalconota	-	-	-	-	-
Chalcorana_eschatia	KR264174	KR264402	KR264476	-	-
Chalcorana_megalonesa	-	-	-	-	-
Chalcorana_mocquardi	KR264191	KR264418	KR264494	-	-
Chalcorana_parvaccola	KR264173	KR264401	KR264475	-	-
Chalcorana_rufipes	KR264172	KR264400	KR264474	-	-
Clinotarsus_alticola	-	MG909641	MG909717	-	-
Clinotarsus_curtipes	KM069226	KM069261	AF249180	-	AF249117
Glandirana_emeljanovi	KF771343	-	-	-	-
Glandirana_rugosa	KF771341	-	-	-	-
Glandirana_tientaiensis	KF771342	-	-	-	-
Huia_cavitympanum	-	EF088246	MG909710	-	KU840634
Huia_cavitympanum	-	-	-	-	-
Huia_masonii	-	EF088247	EU076770	-	-
Huia_melasma	-	MG909637	MG909715	-	-
Humerana_humeralis	-	-	-	-	-
Humerana_miopus	KR264171	-	-	-	-
Hydrophylax_bahuvistara	-	-	-	-	-
Hydrophylax_gracilis	KM069149	KM069232	-	-	-
Hydrophylax_leptoglossa	-	-	-	-	-
Hydrophylax_malabaricus	KM069182	KM069242	-	-	-
Hylarana_attigua	-	-	-	-	-
Hylarana_erythraea	-	-	-	-	-
Hylarana_latouchii	-	-	-	-	-
Hylarana_macroductyla	KR264207	KR264429	KR264505	-	-
Hylarana_taipehensis	KR264132	KR264366	-	-	-
Hylarana_tytleri	KR264206	KR264428	-	-	-
Indosylvirana_caesari	KM069130	KM069228	-	-	-
Indosylvirana_aurantiaca	KM069122	-	-	-	-
Indosylvirana_doni	KM069137	KM069229	-	-	-
Indosylvirana_flavescens	KM069145	KM069230	-	-	-
Indosylvirana_indica	KM069158	KM069235	-	-	-
Indosylvirana_intermedia	KM069170	KM069238	-	-	-
Indosylvirana_magna	KM069178	-	-	-	-
Indosylvirana_milleti	-	-	-	-	-
Indosylvirana_montana	KM069186	KM069245	-	-	-

Indosylvirana_serendipi	KM069193	KM069248	-	-	-
Indosylvirana_sreeni	KM069201	KM069249	-	-	-
Indosylvirana_temporalis	KM069214	KM069254	-	-	-
Indosylvirana_urbis	KM069219	KM069256	-	-	-
Meristogenys_amoropalamus	AB360107	AB526673	-	-	AB360222
Meristogenys_dyscritus	AB526628	AB526670	-	-	AB360216
Meristogenys_maryatiae	AB526623	AB526665	-	-	AB360231
Meristogenys_poecilus	AB526622	AB526664	-	-	-
Meristogenys_stenocephalus	AB526624	AB526666	-	-	-
Meristogenys_stigmachilus	AB526626	AB526668	-	-	AB360235
Odorrana_absita	-	EF088245	EU076768	-	-
Odorrana_amamiensis	-	-	-	-	-
Odorrana_andersonii	KR264154	KR264387	KR264455	-	DQ360018
Odorrana_anlungensis	-	-	-	-	-
Odorrana_aureola	-	-	-	-	-
Odorrana_bacboensis	-	-	-	-	-
Odorrana_banaorum	-	-	-	-	-
Odorrana_chapaensis	-	EF088255	EU076778	-	DQ283992
Odorrana_chloronota	-	-	-	-	-
Odorrana_exiliversabilis	-	-	-	-	-
Odorrana_fengkaiensis	-	-	-	-	-
Odorrana_geminata	-	-	-	-	-
Odorrana_graminea	-	-	-	-	-
Odorrana_hainanensis	NC_034984	KU840725	-	-	KU840664
Odorrana_hejiangensis	-	-	-	-	-
Odorrana_hosii	KR264179	KU840732	KU840785	-	KU840633
Odorrana_huanggangensis	-	-	-	-	-
Odorrana_ishikawae	AB511282	-	-	-	-
Odorrana_jingdongensis	-	-	-	-	-
Odorrana_jingdongensis	-	EF088258	EU076781	-	-
Odorrana_junlianensis	-	-	-	-	-
Odorrana_kuangwuensis	-	-	-	-	-
Odorrana_leporipes	-	-	-	-	-
Odorrana_lipuensis	-	-	-	-	-
Odorrana_livida	-	-	-	-	-
Odorrana_lungshengensis	-	-	-	-	-
Odorrana_margaretae	KU217312	EF088261	EU076785	-	DQ360017
Odorrana_morafkai	-	EF088263	EU076787	-	KU840630
Odorrana_mutschmanni	-	-	-	-	-
Odorrana_nanjiangensis	-	-	-	-	-
Odorrana_narina	-	-	-	-	-
Odorrana_nasica	-	-	-	-	-
Odorrana_nasuta	-	-	-	-	-
Odorrana_schmackeri	KP732086	-	-	-	-

Odorrana_supranarina	-	-	-	-	-
Odorrana_swinhoana	-	-	-	-	-
Odorrana_tianmuis	-	-	-	-	-
Odorrana_tiannanensis	-	-	-	-	-
Odorrana_tormota	DQ835616	EU076750	EU076766	-	-
Odorrana_utsunomiyaorum	-	-	-	-	-
Odorrana_versabilis	-	-	-	-	-
Odorrana_wuchuanensis	KU680791	-	-	-	-
Odorrana_yizhangensis	-	-	-	-	-
Papurana_daemeli	KR264147	KR264381	KR264452	-	-
Papurana_arfaki	KR264139	KR264373	KR264447	-	-
Papurana_aurata	KR264192	KR264419	KR264495	-	-
Papurana_garritor	KR264133	KR264367	KR264441	-	-
Papurana_jimiensis	KR264144	KR264377	-	-	-
Papurana_kreffti	KR264141	KR264375	KR264448	-	-
Papurana_milneana	KR264135	KR264369	KR264443	-	-
Papurana_papua	KR264145	KR264379	KR264450	-	-
Papurana_supragrisea	KR264149	KR264383	-	-	-
Papurana_volkerjane	KR264196	KR264421	KR264498	-	-
Papurana_waliesa	KR264137	KR264371	KR264445	-	-
Pelophylax_lateralis	KF991320	EF088273	EU076800	-	-
Pelophylax_nigromaculatus	KT878718	HQ902533	DQ282932	-	KU840635
Pelophylax_ridibundus	MG575226	-	KT879356	-	-
Pelophylax_saharicus	GU799108	KP177854	KT879338	-	AY148014
Pseudorana_weiningensis	KX269362	KX269582	DQ360050	KX269657	DQ360019
Pulchrana_banjarana	-	-	KF477517	-	-
Pulchrana_baramica	-	-	-	-	-
Pulchrana_glandulosa	-	-	-	-	-
Pulchrana_grandocula	-	-	KF477534	-	-
Pulchrana_laterimaculata	-	-	-	-	-
Pulchrana_mangyanum	-	-	KF477555	-	-
Pulchrana_melanomenta	-	-	KF477562	-	-
Pulchrana_moellendorffi	-	-	KF477566	-	-
Pulchrana_picturata	KR264159	KR264433	KR264461	-	-
Pulchrana_rawa	-	-	-	-	-
Pulchrana_siberu	-	-	KF477591	-	-
Pulchrana_signata	-	-	-	-	-
Pulchrana_similis	KR264168	-	KR264468	-	-
Rana_catesbeianus	NC_022696	AB612037	AB612039	AB612038	-
Rana_kukunoris	KX269332	KX269550	KX269778	KX269625	-
Rana_pipiens	KM396244	-	EU769542	-	DQ283831
Rana_septentrionalis	AY083273	KX269529	KX269757	KX269605	-
Rana_temporaria	MF624355	AY323776	KC800261	AY323803	-
Rana_tlaloci	KX269323	KX269540	KX269768	KX269616	-

<i>Sanguirana luzonensis</i>	KR264202	KT881670	KR264502	-	DQ347351
<i>Sanguirana sanguinea</i>	-	KT881675	KT881866	-	DQ347392
<i>Staurois guttatus</i>	-	MG909642	MG909718	-	KU840657
<i>Staurois latopalmatius</i>	-	EF088277	EU076805	-	-
<i>Staurois natator</i>	AB259736	DQ347250	DQ347155	-	DQ347371
<i>Sylvirana cubitalis</i>	KR264167	KR264396	KR264467	-	-
<i>Sylvirana faber</i>	-	-	-	-	-
<i>Sylvirana guentheri</i>	NC_024748	KX208782	KR264440	KX208921	KU840653
<i>Sylvirana maosonensis</i>	-	-	-	-	-
<i>Sylvirana mortenseni</i>	KR264166	KU840712	-	-	KU840650
<i>Sylvirana nigrovittata</i>	-	-	-	-	-
<i>Sylvirana spinulosa</i>	KR264185	KR264411	KR264487	-	-
Outgroup					
<i>Buergeria oxycephalus</i>	-	-	KU244357	-	KU244313
<i>Cacosternum magnaglandiferus</i>	-	-	KF144577	-	-
<i>Conraua crassipes</i>	-	DQ019498	-	KX208877	-
<i>Cornufer guentheri</i>	-	DQ019496	DQ283024	DQ019522	DQ283881
<i>Mantidactylus guttulatus</i>	JN133020	-	-	-	-
<i>Phrynomantis annectens</i>	-	EF396099	EF395985	EF396139	-
<i>Odontobatrachus natator</i>	KP005427	KP005354	-	KX208908	-
<i>Phrynodon sandersoni</i>	-	GU457749	DQ282973	-	DQ283975
<i>Ptychadena cooperi</i>	-	MF078097	MF078140	-	DQ283792
<i>Quasipaa delacouri</i>	-	-	EU979991	-	EU979900
<i>Kurixalus verrucosus</i>	-	KX554766	KX554671	-	-
<i>Theلودerma corticale</i>	-	-	KU244353	-	KU244315
Species	BDNF	POMC	SLC8A3	CXCR4	C-myc
<i>Abavorana luctuosa</i>	-	-	-	-	KR264252
<i>Amnirana albolabris</i>	-	-	-	-	-
<i>Amnirana amnicola</i>	-	-	-	-	-
<i>Amnirana darlingi</i>	-	-	-	KR264356	-
<i>Amnirana galamensis</i>	-	-	-	-	-
<i>Amnirana lepus</i>	-	-	-	KR264310	-
<i>Amnirana nicobariensis</i>	-	-	-	-	KR264245
<i>Amolops afghanus</i>	-	-	-	-	-
<i>Amolops akhaorum</i>	-	-	-	-	-
<i>Amolops albispinus</i>	-	-	-	-	-
<i>Amolops aniqiaoensis</i>	-	-	-	-	-
<i>Amolops aniqiaoensis</i>	-	-	-	-	-
<i>Amolops archotaphus</i>	-	-	-	-	-
<i>Amolops beibengensis</i>	-	-	-	-	-
<i>Amolops bellulus</i>	-	-	-	-	-
<i>Amolops chayuensis</i>	-	-	-	-	-
<i>Amolops chunganensis</i>	-	-	-	-	-
<i>Amolops compotrix</i>	-	-	-	-	-

Amolops_cremnobatus	-	-	-	-	-
Amolops_cucae	-	-	-	-	-
Amolops_daiyunensis	-	-	-	-	-
Amolops_daorum	-	-	-	-	-
Amolops_granulosus	-	-	-	-	-
Amolops_gyirongensis	-	-	-	-	-
Amolops_gyirongensis	-	-	-	-	-
Amolops_hainanensis	-	-	-	-	-
Amolops_hongkongensis	-	-	-	-	-
Amolops_indoburmanensis	-	-	-	-	-
Amolops_deng	-	-	-	-	-
Amolops_deng	-	-	-	-	-
Amolops_iriodes	-	-	-	-	-
Amolops_jinjiangensis	-	-	-	-	-
Amolops_larutensis	-	-	-	-	-
Amolops_liangshanensis	-	-	-	-	-
Amolops_lifanensis	-	-	-	-	-
Amolops_loloensis	-	-	-	-	-
Amolops_mantzorum	-	-	-	-	-
Amolops_marmoratus	-	-	-	-	-
Amolops_medogensis	-	-	-	-	-
Amolops_medogensis	-	-	-	-	-
Amolops_mengyangensis	-	-	-	-	-
Amolops_nyingchiensis	-	-	-	-	-
Amolops_nyingchiensis	-	-	-	-	-
Amolops_panhai	-	-	-	-	-
Amolops_ricketti	-	-	-	-	-
Amolops_sp	-	-	-	-	-
Amolops_spinapectoralis	-	-	-	-	-
Amolops_torrentis	-	-	-	-	-
Amolops_tuberodepressus	-	-	-	-	-
Amolops_viridimaculatus	-	-	-	-	-
Amolops_vitreus	-	-	-	-	-
Amolops_wangyufani	-	-	-	-	-
Amolops_wangyufani	-	-	-	-	-
Amolops_wuyiensis	-	-	-	-	-
Amolops_yarlungzangbo	-	-	-	-	-
Amolops_yarlungzangbo	-	-	-	-	-
Babina_chapaensis	-	-	-	KR264317	KR264238
Babina_okinavana	-	-	-	-	-
Babina_pleuraden	-	-	-	KR264303	KR264228
Chalcorana_chalconota	-	-	-	-	-
Chalcorana_eschatia	-	-	-	KR264326	KR264248
Chalcorana_megalonesa	-	-	-	-	-

Chalcorana_mocquardi	-	-	-	KR264341	KR264261
Chalcorana_parvaccola	-	-	-	KR264325	KR264247
Chalcorana_rufipes	-	-	-	KR264324	KR264246
Clinotarsus_alticola	-	-	-	-	-
Clinotarsus_curtipes	-	-	-	-	-
Glandirana_emeljanovi	-	-	-	-	-
Glandirana_rugosa	-	-	-	-	-
Glandirana_tientaiensis	-	-	-	-	-
Huia_cavitympanum	-	-	-	-	-
Huia_cavitympanum	-	-	-	-	-
Huia_masonii	-	-	-	-	-
Huia_melasma	-	-	-	-	-
Humerana_humeralis	-	-	-	-	-
Humerana_miopus	-	-	-	-	-
Hydrophylax_bahuvistara	-	-	-	-	-
Hydrophylax_gracilis	-	-	-	-	-
Hydrophylax_leptoglossa	-	-	-	-	-
Hydrophylax_malabaricus	-	-	-	-	-
Hylarana_attigua	-	-	-	-	-
Hylarana_erythraea	-	-	-	-	-
Hylarana_latouchii	-	-	-	-	-
Hylarana_macroductyla	-	-	-	KR264355	KR264276
Hylarana_taipehensis	-	-	-	KR264285	KR264215
Hylarana_tytleri	-	-	-	-	KR264275
Indosylvirana_caesari	-	-	-	-	-
Indosylvirana_aurantiaca	-	-	-	-	-
Indosylvirana_doni	-	-	-	-	-
Indosylvirana_flavescens	-	-	-	-	-
Indosylvirana_indica	-	-	-	-	-
Indosylvirana_intermedia	-	-	-	-	-
Indosylvirana_magna	-	-	-	-	-
Indosylvirana_milleti	-	-	-	-	-
Indosylvirana_montana	-	-	-	-	-
Indosylvirana_serendipi	-	-	-	-	-
Indosylvirana_sreeni	-	-	-	-	-
Indosylvirana_temporalis	-	-	-	-	-
Indosylvirana_urbis	-	-	-	-	-
Meristogenys_amoropalamus	-	AB526659	AB526687	-	-
Meristogenys_dyscritus	-	AB360155	AB526684	-	-
Meristogenys_maryatiae	-	AB526651	AB526679	-	-
Meristogenys_poecilus	-	B526650	AB526678	-	-
Meristogenys_stenocephalus	-	AB526652	AB526680	-	-
Meristogenys_stigmachilus	-	AB526654	AB526682	-	-
Odorrana_absita	-	-	-	-	-

Odorrana_amamiensis	-	-	-	-	-
Odorrana_andersonii	-	-	-	-	-
Odorrana_anlungensis	-	-	-	-	-
Odorrana_aureola	-	-	-	-	-
Odorrana_bacboensis	-	-	-	-	-
Odorrana_banaorum	-	-	-	-	-
Odorrana_chapaensis	-	-	-	-	-
Odorrana_chloronota	-	-	-	-	-
Odorrana_exiliversabilis	-	-	-	-	-
Odorrana_fengkaiensis	-	-	-	-	-
Odorrana_geminata	-	-	-	-	-
Odorrana_graminea	-	-	-	-	-
Odorrana_hainanensis	-	-	-	-	-
Odorrana_hejiangensis	-	-	-	-	-
Odorrana_hosii	-	-	-	KR264331	KR264251
Odorrana_huanggangensis	-	-	-	-	-
Odorrana_ishikawae	-	-	-	-	-
Odorrana_jingdongensis	-	-	-	-	-
Odorrana_jingdongensis	-	-	-	-	-
Odorrana_junlianensis	-	-	-	-	-
Odorrana_kuangwuensis	-	-	-	-	-
Odorrana_leporipes	-	-	-	-	-
Odorrana_lipuensis	-	-	-	-	-
Odorrana_livida	-	-	-	-	-
Odorrana_lungshengensis	-	-	-	-	-
Odorrana_margaretae	-	-	-	-	-
Odorrana_morafkai	-	-	-	-	-
Odorrana_mutschmanni	-	-	-	-	-
Odorrana_nanjiangensis	-	-	-	-	-
Odorrana_narina	-	-	-	-	-
Odorrana_nasica	-	-	-	-	-
Odorrana_nasuta	-	-	-	-	-
Odorrana_schmackeri	-	-	-	-	-
Odorrana_supranarina	-	-	-	-	-
Odorrana_swinhoana	-	-	-	-	-
Odorrana_tianmuyi	-	-	-	-	-
Odorrana_tiannanensis	-	-	-	-	-
Odorrana_tormota	-	-	-	-	-
Odorrana_utsunomiyaorum	-	-	-	-	-
Odorrana_versabilis	-	-	-	-	-
Odorrana_wuchuanensis	-	-	-	-	-
Odorrana_yizhangensis	-	-	-	-	-
Papurana_daemeli	-	-	-	KR264300	-
Papurana_arfaki	-	-	-	KR264292	KR264220

Papurana_aurata	-	-	-	KR264342	-
Papurana_garritor	-	-	-	KR264286	-
Papurana_jimiensis	-	-	-	KR264297	-
Papurana_kreffti	-	-	-	KR264294	KR264222
Papurana_milneana	-	-	-	KR264288	KR264216
Papurana_papua	-	-	-	KR264298	KR264224
Papurana_supragrisea	-	-	-	KR264302	KR264227
Papurana_volkerjane	-	-	-	-	KR264264
Papurana_waliesa	-	-	-	KR264290	KR264218
Pelophylax_lateralis	KF991301	-	-	-	-
Pelophylax_nigromaculatus	KX269291	-	-	-	-
Pelophylax_ridibundus	-	-	-	-	-
Pelophylax_saharicus	-	-	-	-	-
Pseudorana_weiningensis	KX269292	-	-	-	-
Pulchrana_banjarana	-	KF477787	-	-	-
Pulchrana_baramica	-	-	-	-	-
Pulchrana_glandulosa	-	-	-	-	-
Pulchrana_grandocula	-	-	-	-	-
Pulchrana_laterimaculata	-	-	-	-	-
Pulchrana_mangyanum	-	KF477823	-	-	-
Pulchrana_melanomenta	-	KF477830	-	-	-
Pulchrana_moellendorffi	-	-	-	-	-
Pulchrana_picturata	-	-	-	KR264313	-
Pulchrana_rawa	-	-	-	-	-
Pulchrana_siberu	-	-	-	-	-
Pulchrana_signata	-	-	-	-	-
Pulchrana_similis	-	-	-	KR264321	KR264241
Rana_catesbeianus	AB612040	AY819103	AB777225	AB612041	AY819188
Rana_kukunoris	KX269260	KX269474	KX269702	-	-
Rana_pipiens	-	-	-	-	-
Rana_septentrionalis	KX269240	KX269454	KX269681	-	-
Rana_temporaria	KC800199	KC800339	EF107369	EF017988	-
Rana_tlaloci	KX269251	KX269465	KX269692	-	-
Sanguirana_luzonensis	-	-	-	KR264350	-
Sanguirana_sanguinea	-	-	-	KT881648	-
Staurois_guttatus	-	-	-	-	-
Staurois_latopalmodus	-	-	-	-	-
Staurois_natator	-	-	-	-	-
Sylvirana_cubitalis	-	-	-	KR264320	-
Sylvirana_faber	-	-	-	-	-
Sylvirana_guentheri	-	-	-	KR264284	KR264214
Sylvirana_maosonensis	-	-	-	-	-
Sylvirana_mortenseni	-	MG606304	-	KR264319	KR264240
Sylvirana_nigrovittata	-	-	-	-	-

<i>Sylvirana spinulosa</i>	-	-	-	KR264336	KR264257
Outgroup					
<i>Buergeria oxycephalus</i>	KU244396	-	-	-	-
<i>Cacosternum magnaglandiferus</i>	-	-	-	-	-
<i>Conraua crassipes</i>	-	-	-	KX200444	-
<i>Cornufer guentheri</i>	-	KP298156	-	-	-
<i>Mantidactylus guttulatus</i>	-	-	-	-	-
<i>Phrynomantis annectens</i>	EF396025	-	-	-	-
<i>Odontobatrachus natator</i>	KF693490	-	-	-	-
<i>Phrynodon sandersoni</i>	-	-	-	-	-
<i>Ptychadena cooperi</i>	-	-	-	MF078275	-
<i>Quasipaa delacouri</i>	-	-	-	-	-
<i>Kurixalus verrucosus</i>	KX554863	-	-	-	-
<i>Theلودerma corticale</i>	KU244394	-	-	-	-
Species	RH1	NCX1			
<i>Abavorana luctuosa</i>	-	-			
<i>Amnirana albolabris</i>	-	-			
<i>Amnirana amnicola</i>	-	-			
<i>Amnirana darlingi</i>	-	-			
<i>Amnirana galamensis</i>	-	-			
<i>Amnirana lepus</i>	-	-			
<i>Amnirana nicobariensis</i>	-	-			
<i>Amolops afghanus</i>	-	-			
<i>Amolops akhaorum</i>	-	-			
<i>Amolops albispinus</i>	-	-			
<i>Amolops aniqiaoensis</i>	-	-			
<i>Amolops aniqiaoensis</i>	-	-			
<i>Amolops archotaphus</i>	-	-			
<i>Amolops beibengensis</i>	-	-			
<i>Amolops bellulus</i>	-	-			
<i>Amolops chayuensis</i>	-	-			
<i>Amolops chunganensis</i>	-	-			
<i>Amolops compotrix</i>	-	-			
<i>Amolops cremnobatus</i>	-	-			
<i>Amolops cucae</i>	-	-			
<i>Amolops daiyunensis</i>	-	-			
<i>Amolops daorum</i>	-	-			
<i>Amolops granulosus</i>	-	-			
<i>Amolops gyirongensis</i>	-	-			
<i>Amolops gyirongensis</i>	-	-			
<i>Amolops hainanensis</i>	-	-			
<i>Amolops hongkongensis</i>	-	-			
<i>Amolops indoburmanensis</i>	-	-			
<i>Amolops deng</i>	-	-			

Amolops_deng	-	-
Amolops_iriodes	-	-
Amolops_jinjiangensis	-	-
Amolops_larutensis	-	-
Amolops_liangshanensis	-	-
Amolops_lifanensis	-	-
Amolops_loloensis	-	-
Amolops_mantzorum	-	-
Amolops_marmoratus	-	-
Amolops_medogensis	-	-
Amolops_medogensis	-	-
Amolops_mengyangensis	-	-
Amolops_nyingchiensis	-	-
Amolops_nyingchiensis	-	-
Amolops_panghai	-	-
Amolops_ricketti	-	-
Amolops_sp	-	-
Amolops_spinapectoralis	-	-
Amolops_torrentis	-	-
Amolops_tuberodepressus	-	-
Amolops_viridimaculatus	-	-
Amolops_vitreus	-	-
Amolops_wangyufani	-	-
Amolops_wangyufani	-	-
Amolops_wuyiensis	-	-
Amolops_yarlungzangbo	-	-
Amolops_yarlungzangbo	-	-
Babina_chapaensis	-	-
Babina_okinavana	-	-
Babina_pleuraden	-	-
Chalcorana_chalconota	-	-
Chalcorana_eschatia	-	-
Chalcorana_megalonesa	-	-
Chalcorana_mocquardi	-	-
Chalcorana_parvaccola	-	-
Chalcorana_rufipes	-	-
Clinotarsus_alticola	-	-
Clinotarsus_curtipes	-	-
Glandirana_emeljanovi	-	-
Glandirana_rugosa	-	-
Glandirana_tientaiensis	-	-
Huia_cavitympanum	-	-
Huia_cavitympanum	-	-
Huia_masonii	-	-

Huia_melasma	-	-
Humerana_humeralis	-	-
Humerana_miopus	-	-
Hydrophylax_bahuvistara	-	-
Hydrophylax_gracilis	-	-
Hydrophylax_leptoglossa	-	-
Hydrophylax_malabaricus	-	-
Hylarana_attigua	-	-
Hylarana_erythraea	-	-
Hylarana_latouchii	-	-
Hylarana_macroductyla	-	-
Hylarana_taipehensis	-	-
Hylarana_tytleri	-	-
Indosylvirana_caesari	-	-
Indosylvirana_aurantiaca	-	-
Indosylvirana_doni	-	-
Indosylvirana_flavescens	-	-
Indosylvirana_indica	-	-
Indosylvirana_intermedia	-	-
Indosylvirana_magna	-	-
Indosylvirana_milleti	-	-
Indosylvirana_montana	-	-
Indosylvirana_serendipi	-	-
Indosylvirana_sreeni	-	-
Indosylvirana_temporalis	-	-
Indosylvirana_urbis	-	-
Meristogenys_amoropalamus	AB526701	AB526645
Meristogenys_dyscritus	AB526698	AB526642
Meristogenys_maryatiae	AB526693	AB526637
Meristogenys_poecilus	AB526692	AB526636
Meristogenys_stenocephalus	AB526694	AB526638
Meristogenys_stigmachilus	AB526696	AB526640
Odorrana_absita	-	-
Odorrana_amamiensis	-	-
Odorrana_andersonii	-	-
Odorrana_anlungensis	-	-
Odorrana_aureola	-	-
Odorrana_bacboensis	-	-
Odorrana_banaorum	-	-
Odorrana_chapaensis	-	-
Odorrana_chloronota	-	-
Odorrana_exiliversabilis	-	-
Odorrana_fengkaiensis	-	-
Odorrana_geminata	-	-

Odorrana_graminea	-	-
Odorrana_hainanensis	-	-
Odorrana_hejiangensis	-	-
Odorrana_hosii	-	-
Odorrana_huanggangensis	-	-
Odorrana_ishikawae	-	-
Odorrana_jingdongensis	-	-
Odorrana_jingdongensis	-	-
Odorrana_junlianensis	-	-
Odorrana_kuangwuensis	-	-
Odorrana_leporipes	-	-
Odorrana_lipuensis	-	-
Odorrana_livida	-	-
Odorrana_lungshengensis	-	-
Odorrana_margaretae	-	-
Odorrana_morafkai	-	-
Odorrana_mutschmanni	-	-
Odorrana_nanjiangensis	-	-
Odorrana_narina	-	-
Odorrana_nasica	-	-
Odorrana_nasuta	-	-
Odorrana_schmackeri	-	-
Odorrana_supranarina	-	-
Odorrana_swinhoana	-	-
Odorrana_tianmuyi	-	-
Odorrana_tiannanensis	-	-
Odorrana_tormota	-	-
Odorrana_utsunomiyaorum	-	-
Odorrana_versabilis	-	-
Odorrana_wuchuanensis	-	-
Odorrana_yizhangensis	-	-
Papurana_daemeli	-	-
Papurana_arfaki	-	-
Papurana_aurata	-	-
Papurana_garritor	-	-
Papurana_jimiensis	-	-
Papurana_kreffti	-	-
Papurana_milneana	-	-
Papurana_papua	-	-
Papurana_supragrisea	-	-
Papurana_volkerjane	-	-
Papurana_waliesa	-	-
Pelophylax_lateralis	-	-
Pelophylax_nigromaculatus	-	-

Pelophylax_ridibundus	-	-
Pelophylax_saharicus	-	-
Pseudorana_weiningensis	-	-
Pulchrana_banjarana	-	-
Pulchrana_baramica	-	-
Pulchrana_glandulosa	-	-
Pulchrana_grandocula	-	-
Pulchrana_laterimaculata	-	-
Pulchrana_mangyanum	-	-
Pulchrana_melanomenta	-	-
Pulchrana_moellendorffi	-	-
Pulchrana_picturata	-	-
Pulchrana_rawa	-	-
Pulchrana_siberu	-	-
Pulchrana_signata	-	-
Pulchrana_similis	-	-
Rana_catesbeianus	-	AB612042
Rana_kukunoris	-	-
Rana_pipiens	-	-
Rana_septentrionalis	-	-
Rana_temporaria	-	EF018012
Rana_tlaloci	-	-
Sanguirana_luzonensis	-	-
Sanguirana_sanguinea	-	-
Staurois_guttatus	-	-
Staurois_latopalmatum	-	-
Staurois_natator	-	-
Sylvirana_cubitalis	-	-
Sylvirana_faber	-	-
Sylvirana_guentheri	-	-
Sylvirana_maosonensis	-	-
Sylvirana_mortenseni	-	MG605971
Sylvirana_nigrovittata	-	-
Sylvirana_spinulosa	-	-
Outgroup		
Buergeria_oxycephalus	-	-
Cacosternum_magnaglandiferus	-	-
Conraua_crassipes	-	EF018016
Cornufer_guentheri	-	AY948830
Mantidactylus_guttulatus	-	-
Phrynomantis_annectens	-	-
Odontobatrachus_natator	-	-
Phrynodon_sandersoni	-	-
Ptychadena_cooperi	-	MF078178

Quasipaa_delacouri	-	-
Kurixalus_verrucosus	-	-
Theلودerma_corticale	-	-

Rhacophoridae

Species	ND1	COI	12s	16s	Cytb
Ghatixalus_asterops	-	-	EU178098	EU178091	-
Ghatixalus_variabilis	-	-	KU170006	KU169981	-
Ghatixalus_magnus	-	-	KT359618	KT359624	-
Mercurana_myristicapalustris	-	-	KC594293	KC594294	-
Nasutixalus_jerdonii	-	-	KU230457	KU170001	-
Nasutixalus_medogensis	-	-	GQ285679	GQ285679	-
Beddomixalus_bijui	-	-	KC594289	KC594290	-
Taruga_eques	-	-	AY141800	GQ204689	GQ204505
Taruga_fastigo	-	-	AY141802	GQ204690	GQ204506
Taruga_longinasus	-	-	GQ204745	GQ204691	GQ204507
Nyctixalus_margaritifer	-	-	EU178094	EU178087	-
Nyctixalus_pictus	-	KU244454	GQ204783	GQ204732	GQ204549
Nyctixalus_spinosus	-	-	DQ283114	DQ283114	-
Feihyla_kajau	-	-	KC961241	KC961088	-
Feihyla_palpebralis	-	KP996795	EU215546	EU215546	-
Feihyla_vittatus	-	-	GQ285684	MW019898	EU924596
Feihyla_hansena	-	KR087645	AY880579	AY880493	-
Buergeria_buergeri	-	-	AB127977	AB127977	AB127977
Buergeria_japonica	-	-	AF458123	AF458123	MF536335
Buergeria_oxycephala	-	-	EU215524	EU215524	GQ204547
Buergeria_robusta	-	-	AF458125	AF458125	-
Liuixalus_calcarius	-	-	-	AB871420	-
Liuixalus_feii	-	-	-	KT198731	-
Liuixalus_hainanus	-	-	GQ285671	GQ285671	-
Liuixalus_ocellatus	-	KP996840	-	AB871416	-
Liuixalus_romeri	-	KP996831	-	KT192636	-
Liuixalus_shiwandashan	-	-	EU215528	EU215528	-
Gracixalus_gracilipes	-	KR087671	GQ285668	GQ285668	EU924593
Gracixalus_jinxiuensis	-	-	EU215525	EU215525	EU924599
Gracixalus_jinggangensis	-	-	-	KY624587	-
Gracixalus_nonggangensis	-	-	-	JX841320	-
Gracixalus_waza	-	-	-	JX896682	-
Gracixalus_seesom	-	-	-	LC011934	-
Gracixalus_sapaensis	-	-	GQ285670	GQ285670	-
Gracixalus_quangi	-	-	-	JN862538	-
Gracixalus_supercornutus	-	-	-	JN862543	-
Gracixalus_lumarius	-	-	-	KF918412	-
Gracixalus_quyeti	-	-	-	EU871429	-
Gracixalus_medogensis	-	-	-	MW023606	-
Kurixalus_appendiculatus	-	-	KC961247	KC961090	KF933134
Kurixalus_baliogaster	-	-	AB933301	AB933301	-

Kurixalus_banaensis	-	-	GQ285667	GQ285667	-
Kurixalus_berylliniris	-	DQ468677	-	DQ468669	-
Kurixalus_bisacculus	-	-	EU215548	EU215548	-
Kurixalus_eiffingeri	-	DQ468680	-	DQ468672	-
Kurixalus_idiotoocus	-	KT259131	EU215547	EU215547	GQ204503
Kurixalus_motokawai	-	-	-	LC002890	-
Kurixalus_naso	-	-	MW111527	MW111527	-
Kurixalus_naso	-	-	MW111528	MW111528	-
Kurixalus_odontotarsus	-	KR087747	EU215549	EU215549	-
Kurixalus_verrucosus	-	-	GU227274	GU227329	-
Kurixalus_viridescens	-	-	-	AB933285	-
Kurixalus_wangi	-	DQ468679	-	DQ468671	-
Chiromantis_doriae	-	KR087627	EF564444	EF564516	EU924595
Chiromantis_nongkhorensis	-	KR087635	GQ204774	GQ204723	GQ204540
Chiromantis_petersii	-	-	GQ204784	GQ204733	GQ204550
Chiromantis_rufescens	-	-	GQ204775	GQ204724	GQ204541
Chiromantis_xerampelina	-	-	GQ204785	AY880495	GQ204551
Polypedates_braueri	-	KR087858	MN511823	MN511823	AB451722
Polypedates_colletti	-	-	AB728189	AB728189	GQ204514
Polypedates_cruciger	-	-	AY141799	GQ204687	GQ204504
Polypedates_discantus	-	-	AB728180	AB728180	-
Polypedates_impresus	-	-	AB728174	AB728174	-
Polypedates_leucomystax	-	KR087872	AB728137	AB728137	GQ204509
Polypedates_macrotis	-	-	AB728187	AB728187	-
Polypedates_maculatus	-	-	AB728188	AB728188	-
Polypedates_megacephalus	-	KR087886	MN511821	MN511821	-
Polypedates_mutus	-	-	MN511837	MN511837	-
Polypedates_otilophus	-	-	AB728190	AB728190	GQ204513
Polypedates_pseudocruciger	-	-	KU170009	EU450009	-
Polypedates_teraiensis	-	-	-	AB530516	-
Theلودerma_albopunctatum	-	KU244441	GQ285677	GQ285677	-
Theلودerma_annae	-	-	-	LC168170	-
Theلودerma_asperum	-	-	GQ204776	GQ204725	GQ204542
Theلودerma_baibungensis	-	-	KU981089	KU981089	-
Theلودerma_baibungensis	-	-	MW111523	MW111523	-
Theلودerma_bicolor	-	-	KF991263	JX046475	KF991324
Theلودerma_corticale	-	KU244452	-	KU244364	-
Theلودerma_gordoni	-	KU244451	-	KU244363	-
Theلودerma_horridum	-	-	LC012861	LC012861	-
Theلودerma_lacustrinum	-	-	-	KX095245	-
Theلودerma_laeve	-	-	KT461897	KT461898	-
Theلودerma_lateriticum	-	-	LC012850	LC012850	-
Theلودerma_leporosum	-	-	AB847128	AB847128	-
Theلودerma_licin	-	KU244447	-	KU244368	-

<i>Theلودerma_moloch</i>	-	-	MW111524	MW111524	-
<i>Theلودerma_nebulosum</i>	-	-	-	JN688168	-
<i>Theلودerma_palliatum</i>	-	-	KT461893	KT461901	-
<i>Theلودerma_phrynoderma</i>	-	KU244448	KJ128280	KJ128282	-
<i>Theلودerma_pyaukkya</i>	-	KU244443	-	KU244361	-
<i>Theلودerma_rhododiscus</i>	-	-	DQ283392	DQ283393	-
<i>Theلودerma_ryabovi</i>	-	-	LC012860	LC012860	-
<i>Theلودerma_stellatum</i>	-	-	-	KT461917	-
<i>Theلودerma_truongsonense</i>	-	-	-	KT461925	-
<i>Theلودerma_vietnamense</i>	-	-	-	KU561887	-
<i>Theلودerma_petilum</i>	-	-	KJ802925	KJ802925	-
<i>Raorchestes_agasthyaensis</i>	JX092859	-	-	JX092723	JX092785
<i>Raorchestes_akroparallagi</i>	-	-	JX092726	JX092650	JX092786
<i>Raorchestes_anili</i>	JX092863	KM052268	JX092729	JX092700	JX092790
<i>Raorchestes_archeos</i>	JX092862	-	-	JX092675	JX092789
<i>Raorchestes_aureus</i>	JX092882	-	JX092745	JX092672	JX092811
<i>Raorchestes_beddomii</i>	EU450034	-	JX092731	JX092653	JX092793
<i>Raorchestes_blandus</i>	JX092854	-	JX092725	JX092660	JX092781
<i>Raorchestes_bobingeri</i>	EU450049	-	JX092733	JX092680	JX092795
<i>Raorchestes_bombayensis</i>	EU450054	-	-	JX092657	JX092796
<i>Raorchestes_chalazodes</i>	JX092869	-	JX092734	JX092676	-
<i>Raorchestes_charius</i>	JX092870	-	JX092736	JX092691	JX092799
<i>Raorchestes_chlorosomma</i>	EU450052	-	-	EU450017	-
<i>Raorchestes_chotta</i>	EU450056	-	JX092737	JX092656	JX092800
<i>Raorchestes_chromasynchysi</i>	JX092872	-	JX092738	JX092667	JX092802
<i>Raorchestes_coonoorensis</i>	EU450035	-	JX092740	JX092716	JX092805
<i>Raorchestes_crustai</i>	JX092877	-	JX092742	JX092677	JX092806
<i>Raorchestes_dubois</i>	EU450032	-	-	JX092668	JX092808
<i>Raorchestes_echinatus</i>	-	-	-	JX092696	JX092839
<i>Raorchestes_flaviocularis</i>	JX092880	-	-	JX092682	JX092809
<i>Raorchestes_flaviventris</i>	JX092884	-	JX092746	JX092694	JX092813
<i>Raorchestes_ghatei</i>	-	-	-	KF366386	-
<i>Raorchestes_glandulosus</i>	EU450042	-	JX092744	JX092665	JX092810
<i>Raorchestes_graminirupes</i>	EU450050	-	JX092772	JX092649	JX092812
<i>Raorchestes_griet</i>	EU450033	-	-	JX092654	JX092814
<i>Raorchestes_gryllus</i>	-	-	GQ285674	GQ285674	-
<i>Raorchestes_hassanensis</i>	-	-	JX092748	JX092673	JX092815
<i>Raorchestes_honnametti</i>	KT151653	-	-	KT151651	-
<i>Raorchestes_indigo</i>	JX092886	-	JX092749	JX092678	-
<i>Raorchestes_jayarami</i>	EU450057	-	JX092750	JX092686	JX092816
<i>Raorchestes_johnceei</i>	JX092888	-	JX092751	JX092679	JX092817
<i>Raorchestes_kadalarensis</i>	JX092889	-	-	JX092701	JX092818
<i>Raorchestes_kaikatti</i>	EU450055	-	JX092752	JX092718	JX092822
<i>Raorchestes_kakachi</i>	JX092912	-	JX092765	JX092695	JX092843

Raorchestes_lechiya	-	-	-	KT359623	-
Raorchestes_leucolatus	JX092908	-	-	JX092669	JX092838
Raorchestes_longchuanensis	MW111462	-	GQ285675	MW019899	-
Raorchestes_luteolus	EU450041	-	JX092756	JX092659	JX092823
Raorchestes_manohari	JX092895	-	-	JX092674	JX092824
Raorchestes_markii	EU450060	-	JX092757	JX092719	JX092825
Raorchestes_menglaensis	MW111463	-	GQ285676	MW019900	-
Raorchestes_munnarensis	JX092899	-	-	JX092655	JX092828
Raorchestes_nerostagona	JX092900	-	JX092760	JX092661	JX092830
Raorchestes_ochlandrae	JX092902	-	JX092743	JX092666	JX092831
Raorchestes_parvulus	MW149296	KR087901	-	MW019901	-
Raorchestes_ponmudi	EU450047	-	JX092762	JX092651	JX092832
Raorchestes_primarrumpfi	JX092904	-	-	JX092717	JX092833
Raorchestes_resplendens	JX092905	-	-	JX092683	JX092835
Raorchestes_signatus	EU450036	-	KU170011	KU169986	JX092836
Raorchestes_silentvalley	-	-	-	KT359629	-
Raorchestes_sushili	EU450059	-	JX092766	JX092684	JX092844
Raorchestes_theuerkaufi	JX092914	-	JX092767	JX092693	JX092845
Raorchestes_tinniensi	EU450037	-	-	JX092715	JX092846
Raorchestes_travancoricus	EU450061	-	JX092776	JX092721	JX092847
Raorchestes_tuberohumerus	EU450040	-	-	EU450004	JX092848
Raorchestes_uthamani	JX092918	-	-	JX092722	JX092849
Pseudophilautus_kani	JX092892	-	JX092754	JX092724	JX092820
Pseudophilautus_alto	-	-	GQ204738	GQ204677	GQ204494
Pseudophilautus_amboli	-	KM052264	JX092727	JX092658	JX092787
Pseudophilautus_asankai	-	-	FJ788141	FJ788160	-
Pseudophilautus_bambaradeniyai	-	-	-	KP272047	-
Pseudophilautus_cavirostris	-	-	GQ204737	GQ204676	GQ204493
Pseudophilautus_decoris	-	-	FJ788144	FJ788163	-
Pseudophilautus_dilmah	-	-	-	KP272046	-
Pseudophilautus_folicola	-	-	-	GQ204680	GQ204497
Pseudophilautus_hankeni	-	-	GU593346	GU593348	-
Pseudophilautus_hoffmanni	-	-	FJ788142	FJ788161	-
Pseudophilautus_leucorhinus	-	-	AY763796	AY753559	-
Pseudophilautus_limbus	-	-	AY141779	GQ204668	GQ204485
Pseudophilautus_lunatus	-	-	FJ788150	GQ204675	GQ204492
Pseudophilautus_microtympanum	-	-	GQ204739	GQ204678	GQ204495
Pseudophilautus_mittermeieri	-	-	GQ204741	GQ204681	GQ204498
Pseudophilautus_mooreorum	-	-	FJ788134	FJ788153	-
Pseudophilautus_ocularis	-	-	FJ788145	FJ788164	-
Pseudophilautus_papillosus	-	-	FJ788151	FJ788170	-
Pseudophilautus_pleurotaenia	-	-	FJ788146	FJ788165	-
Pseudophilautus_poppiae	-	-	FJ788136	GQ204670	GQ204487
Pseudophilautus_popularis	-	-	FJ788149	FJ788168	-

<i>Pseudophilautus_sarasinorum</i>	-	-	AY141761	GQ204667	GQ204484
<i>Pseudophilautus_schmarda</i>	-	-	AY141780	GQ204669	GQ204486
<i>Pseudophilautus_schneideri</i>	-	-	GU593345	GU593347	-
<i>Pseudophilautus_simba</i>	-	-	GQ204740	GQ204679	GQ204496
<i>Pseudophilautus_steineri</i>	-	-	FJ788138	FJ788157	-
<i>Pseudophilautus_stellatus</i>	-	-	JN862535	JN862536	-
<i>Pseudophilautus_stuarti</i>	-	-	GQ204735	GQ204672	GQ204489
<i>Pseudophilautus_tanu</i>	-	-	FJ788152	FJ788171	-
<i>Pseudophilautus_wynaadensis</i>	JX092920	KM052269	KU170008	KU169983	JX092850
<i>Pseudophilautus_zorro</i>	-	-	FJ788147	GQ204671	GQ204488
<i>Philautus_abditus</i>	-	-	GQ285673	GQ285673	GQ204526
<i>Philautus_acutirostris</i>	-	-	AF458137	AF458137	-
<i>Philautus_acutus</i>	-	-	JN705337	JN705366	-
<i>Philautus_amoenus</i>	-	-	KC961236	KC961076	-
<i>Philautus_aurantium</i>	-	-	GQ204756	GQ204705	GQ204522
<i>Philautus_aurifasciatus</i>	-	-	AY141804	AY141850	-
<i>Philautus_bunitus</i>	-	-	JN705339	JN705368	-
<i>Philautus_cornutus</i>	-	-	-	KY435421	-
<i>Philautus_davidlabangi</i>	-	-	JN705356	JN705386	-
<i>Philautus_disgregus</i>	-	-	KC961250	KC961077	GQ204521
<i>Philautus_everetti</i>	-	-	-	JN705377	-
<i>Philautus_hosii</i>	-	-	JN705353	JN705384	-
<i>Philautus_ingeri</i>	-	-	JN705354	JN705385	GQ204523
<i>Philautus_juliandringi</i>	-	-	JN705347	JN705378	-
<i>Philautus_kakipanjang</i>	-	-	-	KF240718	-
<i>Philautus_kerangae</i>	-	-	KC961238	KC961079	-
<i>Philautus_macroscelis</i>	-	-	JN705346	JN705375	-
<i>Philautus_mjobergi</i>	-	-	JN705349	JN705380	-
<i>Philautus_nephophilus</i>	-	-	-	KT445970	-
<i>Philautus_petersi</i>	-	-	JN705350	JN705381	-
<i>Philautus_refugii</i>	-	-	JN705351	JN705382	-
<i>Philautus_surdus</i>	-	-	AF458138	AF458138	-
<i>Philautus_tectus</i>	-	-	JN705340	JN705369	-
<i>Philautus_umbra</i>	-	-	JN705348	JN705379	-
<i>Philautus_vermiculatus</i>	-	-	-	KY435439	-
<i>Philautus_worcesteri</i>	-	-	GQ204758	GQ204707	GQ204524
<i>Rhacophorus_achantharrhena</i>	MF066239	MF066239	MF066239	MF066239	MF066239
<i>Rhacophorus_angulirostris</i>	-	-	JN705322	JN377348	-
<i>Rhacophorus_annamensis</i>	-	-	GQ204768	GQ204717	GQ204534
<i>Rhacophorus_arboreus</i>	-	-	-	AY880523	-
<i>Rhacophorus_baluensis</i>	-	-	KC961239	KC961089	-
<i>Rhacophorus_belalongensis</i>	-	-	JN705324	JN377352	-
<i>Rhacophorus_bengkuluensis</i>	-	-	-	KM212948	-
<i>Rhacophorus_bimaculatus</i>	-	-	KF933261	-	KF933141

Rhacophorus_bipunctatus	-	-	MW111517	MW111517	-
Rhacophorus_bipunctatus	-	-	MW111518	MW111518	-
Rhacophorus_borneensis	-	-	AB781693	AB781693	-
Rhacophorus_burmanus	-	-	MW111519	MW111519	-
Rhacophorus_burmanus	-	-	MW111520	MW111520	-
Rhacophorus_calcanus	-	-	-	LC010570	-
Rhacophorus_catamitus	-	-	-	JF748387	-
Rhacophorus_chenfui	-	-	GQ204763	GQ204712	GQ204529
Rhacophorus_cyanopunctatus	-	-	KC961249	KC961084	-
Rhacophorus_dennysi	KT191129	KT191129	EF564467	EF564539	EU924604
Rhacophorus_dorsoviridis	-	-	EF564490	EF564562	EU924610
Rhacophorus_duboisii	-	-	EF564495	EF564567	EU924613
Rhacophorus_dugritei	-	-	EU215541	EU215541	-
Rhacophorus_dulitensis	-	-	JN705326	JX219434	-
Rhacophorus_exechopygus	-	-	-	LC010586	-
Rhacophorus_fasciatus	-	-	JN705331	JN377357	-
Rhacophorus_feae	-	-	EF564474	EF564546	EU924606
Rhacophorus_gadingensis	-	-	KC961242	KC961087	-
Rhacophorus_gauni	-	-	JN705325	JN377351	-
Rhacophorus_harrissoni	-	-	JN705332	JN377359	-
Rhacophorus_helenae	-	-	-	KX139177	-
Rhacophorus_hongchibaensis	-	-	JN688883	JN688883	-
Rhacophorus_hui	-	-	EU924627	EU924622	EU924607
Rhacophorus_hungfuensis	-	-	EU215538	EU215538	-
Rhacophorus_indonesiensis	-	-	-	AB983368	-
Rhacophorus_kio	-	KR087904	EU215532	EU215532	-
Rhacophorus_lateralis	-	-	AY880612	AY880525	-
Rhacophorus_malabaricus	-	-	KU170014	AY948724	-
Rhacophorus_smaragdinus	-	-	JX219411	JX219411	-
Rhacophorus_minimus	-	-	EF564489	EF564561	EU924609
Rhacophorus_moltrechti	-	DQ468684	EU215543	EU215543	-
Rhacophorus_monticola	-	-	AY326060	AY326060	-
Rhacophorus_nigropalmatus	-	-	GQ204761	GQ204710	GQ204527
Rhacophorus_nigropunctatus	-	-	EU215533	EU215533	EU924611
Rhacophorus_norhayatii	-	-	AB728191	AB728191	-
Rhacophorus_omeimontis	-	-	EF564492	EF564564	EU924612
Rhacophorus_orlovi	-	-	DQ283049	DQ283049	-
Rhacophorus_pardalis	-	-	GQ204762	GQ204711	GQ204528
Rhacophorus_penanorum	-	-	JN705323	JN377349	-
Rhacophorus_pinglongensis	-	-	KU170683	KU170683	-
Rhacophorus_poecilonotus	MF066240	MF066240	MF066240	MF066240	MF066240
Rhacophorus_pseudomalabaricus	-	-	-	KC593855	-
Rhacophorus_puerensis	-	-	EF564469	EF564541	EU924605
Rhacophorus_reinwardti	-	-	GQ204771	GQ204720	GQ204537

Rhacophorus_rhodopus	-	KR087912	EF564500	EF564572	EU924616
Rhacophorus_bipunctatus	-	-	EF564507	EF564579	-
Rhacophorus_rhodopus	-	-	AY843750	AY843750	-
Rhacophorus_robertingeri	-	-	-	LC010615	-
Rhacophorus_rufipes	-	-	JN705334	JN377360	-
Rhacophorus_schlegelii	NC_007178	NC_007178	NC_007178	NC_007178	NC_007178
Rhacophorus_translineatus	-	-	MW111521	MW111521	-
Rhacophorus_vampyrus	-	-	-	HQ656815	-
Rhacophorus_tuberculatus	-	-	MW111522	MW111522	-
Rhacophorus_wui	-	-	JN688881	JN688881	-
Rhacophorus_zhoukaiyae	-	-	KU601494	KU601494	-
Rhacophorus_lishuiensis	-	-	KY653717	KY653717	-

Outgroup

Microhyla_annectens	-	AB611944	AB634601	AB611947	-
Pelophylax_lateralis	-	-	KF991259	KF991279	KF991320
Pelophylax_nigromaculatus	-	KT878718	KT878718	KT878718	KT878718
Pelophylax_ridibundus	-	KT879314	AB640897	MH410481	MG575226
Pelophylax_saharicus	-	KP177812	-	KP177671	GU799108
Rana_kukunoris	-	-	KC465786	KC465786	-
Rana_catesbeianus	-	NC_022696	NC_022696	NC_022696	NC_022696
Rana_temporaria	-	KP697915	AB058864	AB058882	MF624355
Rana_pipiens	-	EF525892	Y10945	X86284	-
Rana_tlaloci	-	-	AY779234	AY779234	KX269323
Rana_septentrionalis	-	EF525899	KX269179	KX269179	AY083273
Alcalus_tasanae	-	-	KU243088	-	-
Liurana_xizangensis	-	-	KU243084	-	-
Limnonectes_limborgi	-	-	DQ347061	GU934365	-
Occidozyga_martensi	-	-	KU243090	DQ458255	-
Odontobatrachus_natator	-	-	KP005222	KP005103	KP005427
Conraua_crassipes	-	-	DQ347015	DQ347305	-
Blommersia_wittei	-	-	AY341586	AY880490	-
Laliostoma_labrosum	-	-	DQ283057	DQ283057	-

Species	BDNF	POMC	RAG1	Rhod	Tyr
Ghatixalus_asterops	-	-	-	-	-
Ghatixalus_variabilis	-	-	KU169956	KU169932	-
Ghatixalus_magnus	-	-	KT359634	KT359630	-
Mercurana_myristicapalustris	-	-	KC594295	KC594296	-
Nasutixalus_jerdonii	-	-	KU169976	KU169952	-
Nasutixalus_medogensis	GQ285690	GQ285721	GQ285753	GQ285782	GQ285800
Beddomixalus_bijui	-	-	KC594291	KC594292	-
Taruga_eques	GQ204447	-	GQ204571	GQ204633	-
Taruga_fastigo	GQ204448	-	GQ204572	GQ204634	-
Taruga_longinasus	GQ204449	-	GQ204573	GQ204635	-
Nyctixalus_margaritifer	-	-	-	-	-

Nyctixalus_pictus	GQ204483	-	GQ204613	GQ204666	KU244355
Nyctixalus_spinosus	-	-	-	DQ283827	-
Feihyla_kajau	KC961110	KC961180	-	-	KC961234
Feihyla_palpebralis	-	GQ285741	GQ285773	EU215576	-
Feihyla_vittatus	GQ285711	GQ285742	GQ285774	GQ285793	GQ285811
Feihyla_hansenae	GQ285710	-	-	AY880626	EU215606
Buergeria_buergeri	AB728215	AB728249	AB728271	AB728288	AB728322
Buergeria_japonica	GQ285691	GQ285722	GQ285754	GQ285783	GQ285801
Buergeria_oxycephala	GQ285695	GQ285726	GQ285758	EU215556	EU215585
Buergeria_robusta	-	-	-	-	-
Liuixalus_calcarius	-	-	-	-	-
Liuixalus_feii	-	-	-	-	-
Liuixalus_hainanus	GQ285694	GQ285725	GQ285757	GQ285785	GQ285803
Liuixalus_ocellatus	-	-	-	-	-
Liuixalus_romeri	-	-	-	-	-
Liuixalus_shiwandashan	GQ285693	GQ285724	-	EU215559	EU215589
Gracixalus_gracilipes	GQ285701	GQ285732	GQ285764	GQ285789	GQ285807
Gracixalus_jinxiuensis	GQ285700	GQ285731	GQ285763	EU215557	EU215587
Gracixalus_jinggangensis	-	-	-	-	-
Gracixalus_nonggangensis	-	-	-	-	-
Gracixalus_waza	-	-	-	-	-
Gracixalus_seesom	-	-	-	-	-
Gracixalus_sapaensis	GQ285699	GQ285730	GQ285762	GQ285788	GQ285806
Gracixalus_quangi	-	-	-	-	-
Gracixalus_supercornutus	-	-	-	-	-
Gracixalus_lumarius	-	-	-	-	-
Gracixalus_quyeti	-	-	-	-	-
Gracixalus_medogensis	-	-	-	-	-
Kurixalus_appendiculatus	KC961138	KC961188	-	-	KC961231
Kurixalus_baliogaster	-	-	-	-	-
Kurixalus_banaensis	GQ285689	GQ285720	GQ285752	GQ285781	GQ285799
Kurixalus_berylliniris	-	-	-	-	-
Kurixalus_bisacculus	GQ285686	GQ285717	GQ285749	EU215578	EU215608
Kurixalus_eiffingeri	-	-	-	-	-
Kurixalus_idiootocus	GQ285688	GQ285719	GQ285751	EU215577	EU215607
Kurixalus_motokawai	-	-	-	-	-
Kurixalus_naso	-	-	-	-	-
Kurixalus_naso	-	-	-	-	-
Kurixalus_odontotarsus	GQ285687	GQ285718	GQ285750	EU215579	EU215609
Kurixalus_verrucosus	-	-	JQ060901	-	JQ060917
Kurixalus_viridescens	-	-	-	-	-
Kurixalus_wangi	-	-	-	-	-
Chiromantis_doriae	GQ285716	-	EU924511	EU924539	EU924567
Chiromantis_nongkhorensis	-	-	GQ204604	GQ204659	-

Chiromantis_petersii	-	-	-	-	-
Chiromantis_rufescens	GQ204476	-	GQ204605	GQ204660	DQ347139
Chiromantis_xerampelina	-	-	-	AY880628	-
Polypedates_braueri	AB728193	AB728234	AB728251	AB728273	AB728307
Polypedates_colletti	AB728212	AB728246	AB728268	AB728285	AB728319
Polypedates_cruciger	GQ204446	HM998970	GQ204570	GQ204632	-
Polypedates_discantus	-	-	-	-	-
Polypedates_impresus	AB728208	AB728242	AB728264	AB728281	AB728315
Polypedates_leucomystax	AB728205	AB728240	AB728262	AB728279	AB728313
Polypedates_macrotis	AB728210	AB728244	AB728266	AB728283	AB728317
Polypedates_maculatus	AB728211	AB728245	AB728267	AB728284	AB728318
Polypedates_megacephalus	AB728200	AB728239	AB728258	AB728278	AB728312
Polypedates_mutus	AB728196	AB728237	AB728254	AB728276	AB728310
Polypedates_otilophus	AB728213	AB728247	AB728269	AB728286	AB728320
Polypedates_pseudocruciger	-	-	KU169959	KU169935	-
Polypedates_teraiensis	-	-	-	-	-
Theloderma_albopunctatum	KU244401	GQ285728	GQ285760	GQ285786	GQ285804
Theloderma_annae	-	-	-	-	-
Theloderma_asperum	-	-	GQ204606	GQ204661	-
Theloderma_baibungensis	-	-	-	-	-
Theloderma_baibungensis	-	-	-	-	-
Theloderma_bicolor	KF991305	-	KF991342	AY880659	-
Theloderma_corticale	KU244393	-	-	KU244316	KU244354
Theloderma_gordoni	KU244395	-	-	KU244334	KU244358
Theloderma_horridum	-	-	-	-	-
Theloderma_lacustrinum	-	-	-	-	-
Theloderma_laeve	-	-	-	-	-
Theloderma_lateriticum	-	-	-	-	-
Theloderma_leporosum	-	-	-	-	-
Theloderma_licin	KU244384	-	-	KU244333	KU244346
Theloderma_moloch	-	-	KU169968	KU169944	-
Theloderma_nebulosum	-	-	-	-	-
Theloderma_palliatum	-	-	-	-	-
Theloderma_phrynodesma	KU244402	-	-	KJ128278	KJ128276
Theloderma_pyaukkya	KU244399	-	-	KU244331	KU244339
Theloderma_rhododiscus	-	-	-	DQ284007	DQ282998
Theloderma_ryabovi	-	-	-	-	-
Theloderma_stellatum	-	-	-	-	-
Theloderma_truongsonense	-	-	-	-	-
Theloderma_vietnamense	KU561888	-	-	KU561891	KU561897
Theloderma_petilum	-	-	-	-	-
Raorchestes_agasthyaensis	-	-	-	JX092980	JX092926
Raorchestes_akroparallagi	-	-	-	JX092981	JX092927
Raorchestes_anili	-	-	-	JX092984	-

Raorchestes_archeos	-	-	-	JX092983	-
Raorchestes_aureus	-	-	-	JX092996	JX092945
Raorchestes_bedomii	-	-	-	-	-
Raorchestes_blandus	-	-	-	-	-
Raorchestes_bobingeri	-	-	-	-	JX092930
Raorchestes_bombayensis	-	-	-	JX092986	JX092931
Raorchestes_chalazodes	-	-	-	JX092988	JX092932
Raorchestes_charius	-	-	KU169960	JX092989	JX092933
Raorchestes_chlorosomma	-	-	-	-	-
Raorchestes_chotta	-	-	-	-	JX092934
Raorchestes_chromasynchysi	-	-	-	JX092990	JX092935
Raorchestes_coonoorensis	-	-	-	-	JX092939
Raorchestes_crustai	-	-	-	-	JX092940
Raorchestes_dubois	-	-	-	JX092993	JX092942
Raorchestes_echinatus	-	-	-	-	-
Raorchestes_flaviocularis	-	-	-	JX092994	JX092943
Raorchestes_flaviventris	-	-	-	-	-
Raorchestes_ghatei	-	-	-	-	-
Raorchestes_glandulosus	-	-	KU169962	JX092995	JX092944
Raorchestes_graminirupes	-	-	-	-	JX092946
Raorchestes_griet	-	-	KU169965	JX092997	-
Raorchestes_gryllus	GQ285714	GQ285745	GQ285777	GQ285796	GQ285814
Raorchestes_hassanensis	-	-	-	-	-
Raorchestes_honnametti	-	-	-	-	-
Raorchestes_indigo	-	-	-	JX092999	JX092947
Raorchestes_jayarami	-	-	-	JX093000	JX092948
Raorchestes_johnceei	-	-	-	JX093001	JX092949
Raorchestes_kadalarensis	-	-	-	JX093002	JX092950
Raorchestes_kaikatti	-	-	-	JX093003	JX092951
Raorchestes_kakachi	-	-	-	-	-
Raorchestes_lechiya	-	-	-	-	-
Raorchestes_leucolatus	-	-	-	-	JX092968
Raorchestes_longchuanensis	GQ285713	GQ285744	GQ285776	GQ285795	GQ285813
Raorchestes_luteolus	-	-	-	JX093004	JX092954
Raorchestes_manohari	-	-	-	JX093005	JX092955
Raorchestes_marki	-	-	-	JX093006	JX092956
Raorchestes_menglaensis	GQ285715	GQ285746	GQ285778	GQ285797	GQ285815
Raorchestes_munnarensis	-	-	-	JX093008	JX092959
Raorchestes_nerostagona	-	-	-	JX093009	JX092960
Raorchestes_ochlandrae	-	-	-	JX093010	JX092962
Raorchestes_parvulus	-	-	-	-	-
Raorchestes_ponmudi	-	-	-	JX093011	JX092963
Raorchestes_primarrumpfi	-	-	-	JX093012	JX092964
Raorchestes_resplendens	-	-	KU169963	JX093013	JX092965

Raorchestes_signatus	-	-	KU169961	KU169937	JX092966
Raorchestes_silentvalley	-	-	-	-	-
Raorchestes_sushili	-	-	-	JX093018	JX092972
Raorchestes_theuerkaufi	-	-	-	-	-
Raorchestes_tinniens	-	-	KU169966	KU169942	JX092973
Raorchestes_travancoricus	-	-	-	JX093019	JX092974
Raorchestes_tuberohumerus	-	-	-	-	-
Raorchestes_uthamani	-	-	-	JX093020	-
Pseudophilautus_kani	-	-	-	-	JX092952
Pseudophilautus_alto	GQ204440	-	GQ204562	-	-
Pseudophilautus_amboli	-	-	KU169957	JX092982	JX092928
Pseudophilautus_asankai	-	-	-	-	-
Pseudophilautus_bambaradeniyai	-	-	-	-	-
Pseudophilautus_cavirostris	GQ204439	-	GQ204561	GQ204622	-
Pseudophilautus_decoris	-	-	-	-	-
Pseudophilautus_dilmah	-	-	-	-	-
Pseudophilautus_folicola	-	-	GQ204564	GQ204625	-
Pseudophilautus_hankeni	-	-	-	-	-
Pseudophilautus_hoffmanni	-	-	-	-	-
Pseudophilautus_leucorhinus	-	-	-	-	-
Pseudophilautus_limbus	-	-	GQ204553	-	-
Pseudophilautus_lunatus	GQ204438	-	GQ204560	GQ204621	-
Pseudophilautus_microtyimpanum	GQ204441	-	GQ204563	GQ204623	-
Pseudophilautus_mittermeieri	GQ204443	-	GQ204565	GQ204626	-
Pseudophilautus_mooreorum	-	-	-	-	-
Pseudophilautus_ocularis	-	-	-	-	-
Pseudophilautus_papillosus	-	-	-	-	-
Pseudophilautus_pleurotaenia	-	-	-	-	-
Pseudophilautus_poppiae	-	-	GQ204555	GQ204616	-
Pseudophilautus_popularis	-	-	-	-	-
Pseudophilautus_sarasinorum	-	-	GQ204552	GQ204614	-
Pseudophilautus_schmarda	GQ204435	-	GQ204554	GQ204615	-
Pseudophilautus_schneideri	-	-	-	-	-
Pseudophilautus_simba	GQ204442	-	-	GQ204624	-
Pseudophilautus_steineri	-	-	-	-	-
Pseudophilautus_stellatus	-	-	-	-	-
Pseudophilautus_stuarti	-	-	GQ204557	GQ204618	-
Pseudophilautus_tanu	-	-	-	-	-
Pseudophilautus_wynaadensis	-	-	KU169958	KU169934	-
Pseudophilautus_zorro	-	-	GQ204556	GQ204617	-
Philautus_abditus	GQ285712	GQ285743	GQ285775	GQ285794	GQ285812
Philautus_acutirostris	-	-	-	-	-
Philautus_acutus	KC961117	KC961174	-	-	KC961191
Philautus_amoenus	KC961140	KC961159	-	-	KC961196

Philautus_aurantium	GQ204460	KC961178	GQ204587	GQ204642	KC961193
Philautus_aurifasciatus	-	-	-	-	-
Philautus_bunitus	KC961120	KC961176	-	-	KC961194
Philautus_cornutus	-	-	-	-	-
Philautus_davidlabangi	KC961130	KC961166	-	-	KC961207
Philautus_disgregus	KC961137	KC961167	GQ204586	GQ204641	-
Philautus_everetti	-	-	-	-	-
Philautus_hosii	KC961113	KC961172	-	-	KC961205
Philautus_ingeri	KC961114	KC961173	GQ204588	AY880629	KC961206
Philautus_juliandringi	KC961131	KC961160	-	-	KC961199
Philautus_kakipanjang	-	-	-	-	-
Philautus_kerangae	KC961121	KC961177	-	-	KC961195
Philautus_macroscelis	KC961112	KC961168	-	-	KC961202
Philautus_mjobergi	KC961132	KC961162	-	-	KC961197
Philautus_nephophilus	-	-	-	-	-
Philautus_petersi	KC961134	KC961163	-	-	KC961204
Philautus_refugii	KC961135	KC961164	-	-	KC961200
Philautus_surdus	-	-	-	-	-
Philautus_tectus	KC961116	KC961171	-	-	KC961209
Philautus_umbra	KC961133	KC961161	-	-	KC961198
Philautus_vermiculatus	-	-	-	-	-
Philautus_worcesteri	GQ204462	-	GQ204589	GQ204643	-
Rhacophorus_achantharrhena	-	-	-	-	-
Rhacophorus_angulirostris	KC961099	KC961142	-	-	KC961221
Rhacophorus_annamensis	GQ204470	-	GQ204598	GQ204653	-
Rhacophorus_arboreus	-	-	-	AY880653	-
Rhacophorus_baluensis	KC961093	KC961153	-	-	-
Rhacophorus_belalongensis	KC961101	KC961144	-	-	-
Rhacophorus_bengkuluensis	-	-	-	-	-
Rhacophorus_bimaculatus	-	-	-	-	-
Rhacophorus_bipunctatus	-	-	-	-	-
Rhacophorus_bipunctatus	-	-	-	-	-
Rhacophorus_borneensis	-	-	-	-	-
Rhacophorus_burmanus	-	-	-	EU215567	EU215597
Rhacophorus_burmanus	-	-	-	-	-
Rhacophorus_calcanus	-	-	-	-	-
Rhacophorus_catamitus	-	-	-	-	-
Rhacophorus_chenfui	GQ204467	-	GQ204594	GQ204648	EU924575
Rhacophorus_cyanopunctatus	KC961098	KC961152	-	-	KC961230
Rhacophorus_dennysi	-	-	EU924520	EU924548	EU924576
Rhacophorus_dorsoviridis	-	-	EU924526	EU924554	EU924582
Rhacophorus_duboisii	-	-	EU924529	EU924557	EU924585
Rhacophorus_dugritei	GQ285705	GQ285736	GQ285768	EU215571	EU215601
Rhacophorus_dulitensis	KC961122	KC961158	-	-	KC961235

Rhacophorus_exechopygus	-	-	-	-	-
Rhacophorus_fasciatus	KC961104	KC961148	-	-	KC961226
Rhacophorus_feae	-	-	EU924522	EU924550	EU924578
Rhacophorus_gadingensis	KC961102	KC961145	-	-	KC961223
Rhacophorus_gauni	KC961103	KC961146	-	-	KC961224
Rhacophorus_harrissoni	KC961107	KC961149	-	-	KC961227
Rhacophorus_helenae	-	-	-	-	-
Rhacophorus_hongchibaensis	-	-	-	JN688897	JN688906
Rhacophorus_hui	-	-	EU924523	EU924551	EU924579
Rhacophorus_hungfuensis	-	-	-	EU215568	EU215598
Rhacophorus_indonesiensis	-	-	-	-	-
Rhacophorus_kio	GQ285703	GQ285734	GQ285766	EU215562	EU215592
Rhacophorus_lateralis	-	-	-	AY880655	-
Rhacophorus_malabaricus	-	-	AY948912	KU169943	-
Rhacophorus_smaragdinus	-	-	-	-	-
Rhacophorus_minimus	-	-	EU924525	EU924553	EU924581
Rhacophorus_moltrechti	-	-	-	EU215573	EU215603
Rhacophorus_monticola	-	-	-	-	-
Rhacophorus_nigropalmatus	GQ204465	KC961154	GQ204592	GQ204646	KC961210
Rhacophorus_nigropunctatus	GQ285704	GQ285735	GQ285767	EU215563	EU215593
Rhacophorus_norhayatii	AB728214	AB728248	AB728270	AB728287	AB728321
Rhacophorus_omeimontis	-	-	EU924528	EU924556	EU924584
Rhacophorus_orlovi	-	-	-	DQ283778	-
Rhacophorus_pardalis	GQ204466	KC961156	GQ204593	GQ204647	KC961212
Rhacophorus_penanorum	KC961100	KC961143	-	-	KC961222
Rhacophorus_pinglongensis	-	-	-	-	-
Rhacophorus_poecilonotus	-	-	-	-	-
Rhacophorus_pseudomalabaricus	-	-	-	-	-
Rhacophorus_puerensis	-	-	EU924521	EU924549	EU924577
Rhacophorus_reinwardti	GQ204472	-	GQ204601	GQ204656	-
Rhacophorus_rhodopus	-	-	EU924532	EU924560	EU924588
Rhacophorus_bipunctatus	-	-	-	EU215560	EU215590
Rhacophorus_rhodopus	-	-	-	AY844737	-
Rhacophorus_robertingeri	-	-	-	-	-
Rhacophorus_rufipes	KC961106	KC961150	-	-	KC961228
Rhacophorus_schlegelii	-	-	-	-	-
Rhacophorus_translineatus	-	-	-	-	-
Rhacophorus_vampyrus	-	-	-	-	-
Rhacophorus_tuberculatus	-	-	-	-	-
Rhacophorus_wui	-	-	-	JN688896	JN688910
Rhacophorus_zhoukaiyae	KU601449	KU601458	KU601467	KU601476	KU601485
Rhacophorus_lishuiensis	-	-	-	-	-
Outgroup					
Microhyla_annectens	AB611943	-	AB611940	-	AB611942

<i>Pelophylax_lateralis</i>	KF991301	-	EF088273	-	-
<i>Pelophylax_nigromaculatus</i>	KX269291	-	HQ902533	KU840635	DQ282932
<i>Pelophylax_ridibundus</i>	-	-	-	-	KT879356
<i>Pelophylax_saharicus</i>	-	-	KP177854	AY148014	KT879338
<i>Rana_kukunoris</i>	-	GQ285748	GQ285780	GQ285798	GQ285816
<i>Rana_catesbeianus</i>	AB612040	AY819103	AB612037	-	AB612039
<i>Rana_temporaria</i>	KC800199	KC800339	AY323776	-	KC800261
<i>Rana_pipiens</i>	-	-	-	DQ283831	EU769542
<i>Rana_tlaloci</i>	KX269251	KX269465	KX269540	-	KX269768
<i>Rana_septentrionalis</i>	KX269240	KX269454	KX269529	-	KX269757
<i>Alcalus_tasanae</i>	-	-	KU243098	KU243108	KU243118
<i>Liurana_xizangensis</i>	-	-	KU243093	KU243102	KU243112
<i>Limnonectes_limborgi</i>	-	-	DQ347286	DQ347407	DQ347194
<i>Occidozyga_martensi</i>	-	-	KU243099	KU243109	KU243119
<i>Odontobatrachus_natator</i>	KP005321	-	KP005354	-	-
<i>Conraua_crassipes</i>	-	-	DQ347244	DQ347364	DQ347148
<i>Blommersia_wittei</i>	EF396018	-	AY323774	AY323743	AY341751
<i>Laliostoma_labrosum</i>	-	-	AY571652	AF249106	AF249169

Dicroglossidae

Species	RAG2	RAG1	Rhod	Tyr	12s
Nanorana_arnoldi	-	-	EU979858	EU979949	EU979777
Nanorana_aenea	HM163645	HM163609	EU979895	EU979986	AF206093
Nanorana_blanfordii	MW111356	MW111370	MW111350	MW111344	-
Nanorana_bourreti	HM163630	HM163594	EU979882	EU979973	EU979767
Nanorana_chayuensis	MW111357	MW111371	MW111351	MW111345	DQ118466
Nanorana_conaensis	HM163625	HM163589	EU979874	EU979965	EU979774
Nanorana_liebigii	MW111358	MW111372	MW111352	MW111346	DQ118455
Nanorana_liebigii	MW111359	MW111373	MW111353	MW111347	-
Nanorana_maculosa	HM163624	HM163588	EU979859	EU979950	DQ118468
Nanorana_medogensis	HM163626	HM163590	EU979862	EU979953	DQ118462
Nanorana_parkeri	HM163620	HM163584	EU979873	EU979964	AF206110
Nanorana_pleskei	HM163622	HM163586	EU979870	EU979961	DQ346988
Nanorana_rostandi	MW111360	MW111374	MW111354	MW111348	-
Nanorana_quadranus	HM163627	HM163591	EU979887	EU979978	GQ225906
Nanorana_polunini	MW111361	MW111375	MW111355	MW111349	-
Nanorana_taihangnica	HM163644	HM163608	EU979893	EU979984	KF199146
Nanorana_unculuanus	HM163631	HM163595	DQ458262	DQ458277	-
Nanorana_yunnanensis	HM163629	HM163593	EU979875	EU979966	DQ118448
Nanorana_ventripunctata	HM163621	HM163585	EU979868	EU979959	-
Quasipaa_boulengeri	HM163641	HM163605	EU979911	EU980002	EU979791
Quasipaa_shini	HM163638	HM163602	EU979907	EU979998	-
Quasipaa_spinosa	HM163642	HM163606	EU979913	EU980004	AF206088
Quasipaa_verrucospinosa	HM163636	HM163599	EU979896	EU979987	EU979790
Quasipaa_yei	HM163632	HM163596	EU979905	EU979996	DQ118445
Euphlyctis_cyanophlyctis	AB488997	DQ347205	AF249111	AF249174	DQ346962
Euphlyctis_hexadactylus	-	MG719916	-	-	NC_014584
Fejervarya_cancrivora	HM163617	HM163581	EU979938	EU980029	-
Fejervarya_limnocharis	HM163616	HM163580	EU979936	EU980027	-
Fejervarya_iskandari	AB488981	AB488954	AB489021	AB277355	-
Fejervarya_triora	AB488982	AB488939	AB489022	AB489003	-
Fejervarya_sakishimensis	AB488985	AB488940	AB489025	AB489004	-
Fejervarya_multistriata	AB500252	AB500220	AB500257	AB500265	-
Hoplobatrachus_crassus	-	DQ347211	AF249109	AF249172	DQ346972
Hoplobatrachus_occipitalis	HM163648	DQ347217	DQ283787	EU980026	DQ346979
Hoplobatrachus_rugulosus	-	DQ347222	DQ458257	EU980024	DQ346985
Hoplobatrachus_tigerinus	AB488998	AB488958	AB489039	AB277358	AB290422
Limnonectes_finchi	-	-	AY322230	AY322355	AY322306
Limnonectes_fragilis	HM163647	HM163611	DQ458270	EU980020	AY703867
Limnonectes_fujianensis	HM163618	HM163582	DQ458260	DQ458275	AY703865
Limnonectes_grunniens	-	-	DQ283885	EU980023	-
Limnonectes_kuhlii	-	DQ347232	AF249116	EU980019	AY703869

<i>Limnonectes_deinodon</i>	AB489000	AB488960	AB489041	AB277359	AF183125
<i>Limnonectes_limborgi</i>	-	DQ347286	DQ347407	-	DQ347061
<i>Limnonectes_magnus</i>	-	-	DQ347373	DQ347157	DQ347022
<i>Limnonectes_modestus</i>	-	-	EU979930	EU980021	AY313766
<i>Limnonectes_poilani</i>	-	-	DQ283997	DQ282989	DQ283378
<i>Minervarya_pierrei</i>	AB490160	AB488942	AB489027	AB489006	AB488865
<i>Minervarya_caperata</i>	AB488990	AB488946	AB489031	AB489010	-
<i>Minervarya_greenii</i>	AB488988	AB488944	AB489029	AB489008	AB488868
<i>Minervarya_syhadrensis</i>	AB488989	AB488945	AB489030	AB489009	AF249011
<i>Sphaerotheca_breviceps</i>	-	-	AF249110	DQ282927	AF161039
<i>Sphaerotheca_dobsonii</i>	AB488999	AB488959	AB489040	AB277357	AB277290
<i>Sphaerotheca_pluvialis</i>	-	DQ347214	-	AF249173	-
<i>Sphaerotheca_rolandae</i>	-	-	-	-	-
<i>Nannophrys_ceylonensis</i>	-	AY948917	AF249112	AF249175	DQ346975
<i>Ingerana_tenasserimensis</i>	-	DQ347258	AY322236	AY322344	AY322308
<i>Ingerana_borealis</i>	-	KU243100	KU243110	KU243120	KU243091
<i>Occidozyga_baluensis</i>	-	-	DQ283844	DQ282936	DQ283143
<i>Occidozyga_laevis</i>	-	DQ347254	AY322227	AY322342	DQ347024
<i>Occidozyga_lima</i>	AB489001	DQ019503	DQ283901	DQ282951	DQ283224
<i>Occidozyga_martensii</i>	-	KU243099	DQ458266	DQ458283	DQ283357

Outgroup

<i>Staurois_nanator</i>	-	DQ347250	DQ347371	DQ347155	-
<i>Rana_sylvatica</i>	DQ019546	DQ347278	DQ347397	DQ347185	-
<i>Boophis_doulioti</i>	DQ019519	AY571643	AY341792	-	-
<i>Boophis_tephraeomystax</i>	-	DQ347234	AF249105	-	DQ347000
<i>Blommersia_wittei</i>	AY323795	AY323774	AY880667	AY341751	AY880536
<i>Mantella_aurantiaca</i>	AY723547	AY723530	AY263281	DQ282901	DQ283035
<i>Rhacophorus_dugritei</i>	-	GQ285768	EU215571	EU215601	EF564471
<i>Petropedetes_martiensseni</i>	-	DQ347289	DQ347410	DQ347197	DQ347064
<i>Aubria_subsigillata</i>	-	-	DQ283865	DQ282975	-
<i>Strongylopus_bonaespei</i>	-	DQ347288	DQ347409	DQ347196	DQ347063
<i>Amietia_angolensis</i>	DQ019515	DQ347257	DQ347377	DQ347163	DQ347029
<i>Pelophylax_nigromaculatus</i>	KX269656	KX269581	DQ360014	DQ360045	KX269216
<i>Rana_pipiens</i>	-	DQ347265	DQ347384	EU769542	DQ347039
<i>Rana_catesbeianus</i>	AB612038	AB612037	-	AB612039	NC_022696
<i>Rana_temporaria</i>	AY323803	AY323776	-	KC800261	AB058864
<i>Liurana_alpina</i>	-	KU243094	KU243104	KU243114	KU243085
<i>Liurana_xizangensis</i>	-	KU243093	KU243102	KU243112	KU243084
<i>Cornufer_guentheri</i>	-	-	DQ284031	DQ283024	DQ283198
<i>Platymantis_dorsalis</i>	-	DQ347246	DQ347367	DQ347151	DQ347199
<i>Platymantis_hazelae</i>	-	DQ347248	DQ347369	DQ347153	DQ347019
<i>Platymantis_naomii</i>	-	DQ347249	DQ347370	DQ347154	DQ347201
<i>Platymantis_papuensis</i>	-	DQ347268	DQ347387	DQ347175	DQ347042

Species

16s

Nanorana_arnoldi	EU979837
Nanorana_aenea	AF206474
Nanorana_blanfordii	-
Nanorana_bourreti	EU979827
Nanorana_chayuensis	DQ118510
Nanorana_conaensis	EU979834
Nanorana_liebigii	DQ118499
Nanorana_liebigii	-
Nanorana_maculosa	DQ118512
Nanorana_medogensis	DQ118506
Nanorana_parkeri	AF206491
Nanorana_pleskei	AF206492
Nanorana_rostandi	-
Nanorana_quadranus	GQ225932
Nanorana_polunini	-
Nanorana_taihangnica	KF199146
Nanorana_unculuanus	DQ118491
Nanorana_yunnanensis	DQ118492
Nanorana_ventripunctata	EU979839
Quasipaa_boulengeri	EU979851
Quasipaa_shini	DQ118487
Quasipaa_spinosa	AF206469
Quasipaa_verrucospinosa	EU979813
Quasipaa_yei	DQ118488
Euphlyctis_cyanophlyctis	AY014366
Euphlyctis_hexadactylus	NC_014584
Fejervarya_cancrivora	EU979849
Fejervarya_limnocharis	AF206466
Fejervarya_iskandari	AB277303
Fejervarya_triora	AB488883
Fejervarya_sakishimensis	AB488886
Fejervarya_multistriata	AB488884
Hoplobatrachus_crassus	AF249044
Hoplobatrachus_occipitalis	DQ283059
Hoplobatrachus_rugulosus	AF206465
Hoplobatrachus_tigerinus	FJ008057
Limnonectes_finchi	AY322295
Limnonectes_fragilis	AY703854
Limnonectes_fujianensis	DQ118518
Limnonectes_grunniens	U66125
Limnonectes_kuhlii	DQ283370
Limnonectes_deinodon	AB277306
Limnonectes_limborgi	AF261269
Limnonectes_magnus	AY313706

<i>Limnonectes_modestus</i>	AY313766
<i>Limnonectes_poilani</i>	DQ283378
<i>Minervarya_pierrei</i>	AB488888
<i>Minervarya_caperata</i>	AB355845
<i>Minervarya_greenii</i>	AB488891
<i>Minervarya_syhadrensis</i>	AY841748
<i>Sphaerotheca_breviceps</i>	AF249042
<i>Sphaerotheca_dobsonii</i>	AB277305
<i>Sphaerotheca_pluvialis</i>	AF249042
<i>Sphaerotheca_rolandae</i>	GU191122
<i>Nannophrys_ceylonensis</i>	AF215394
<i>Ingerana_tenasserimensis</i>	AY322302
<i>Ingerana_borealis</i>	-
<i>Occidozyga_baluensis</i>	DQ283143
<i>Occidozyga_laevis</i>	AY322300
<i>Occidozyga_lima</i>	AF206497
<i>Occidozyga_martensii</i>	DQ283357
Outgroup	
<i>Staurois_nanator</i>	-
<i>Rana_sylvatica</i>	-
<i>Boophis_doulioti</i>	-
<i>Boophis_tephraeomystax</i>	DQ283032
<i>Blommersia_wittei</i>	-
<i>Mantella_aurantiaca</i>	DQ283035
<i>Rhacophorus_dugritei</i>	EF564541
<i>Petropedetes_martiensseni</i>	DQ347346
<i>Aubria_subsigillata</i>	DQ283173
<i>Strongylopus_bonaespei</i>	DQ347345
<i>Amietia_angolensis</i>	DQ347318
<i>Pelophylax_nigromaculatus</i>	DQ359991
<i>Rana_pipiens</i>	Y10945
<i>Rana_catesbeianus</i>	NC_022696
<i>Rana_temporaria</i>	AB058882
<i>Liurana_alpina</i>	-
<i>Liurana_xizangensis</i>	-
<i>Cornufer_guentheri</i>	-
<i>Platymantis_dorsalis</i>	DQ347308
<i>Platymantis_hazelae</i>	DQ347310
<i>Platymantis_naomii</i>	DQ347311
<i>Platymantis_papuensis</i>	DQ347326

Ceratobatrachidae

Species	12s	16s	RAG1	Tyr	POMC
Liurana_alpina	KU243086	KU243086	KU243094	KU243114	-
Liurana_medogensis	-	-	-	KU243113	-
Liurana_vallecula	-	-	-	MK462155	-
Liurana_vallecula	-	-	-	MK462156	-
Liurana_xizangensis	KU243083	KU243083	KU243093	KU243112	-
Alcalus_baluensis	DQ283142	DQ283142	DQ347270	DQ347177	-
Alcalus_tasanae	KU243089	KU243089	KU243096	KU243116	-
Alcalus_mariae	KP298038	KP298038	KP298263	-	KP298166
Alcalus_rajae	-	KP298028	-	KP298326	KP298163
Cornufer_guentheri	KP298021	-	KP298261	DQ347179	KP298156
Cornufer_guppyi	KP298024	KP298024	DQ347269	DQ347176	KP298159
Cornufer_minutus	KP298016	KP298016	KP298256	KP298318	KP298151
Cornufer_vertebralis	KP298018	-	KP298258	KP298320	KP298153
Cornufer_bufoniformis	KP298022	KP298022	-	-	KP298157
Cornufer_malukuna	KP298025	KP298025	-	KP298323	KP298160
Cornufer_wolffi	KP298033	KP298033	-	KP298328	KP298164
Cornufer_pelewensis	KP298045	KP298045	-	KP298330	KP298168
Cornufer_adiastolus	KP298052	KP298052	-	KP298331	KP298169
Cornufer_boulengeri	KP298056	KP298056	KP298266	KP298333	KP298173
Cornufer_gilliardi	KP298060	KP298060	-	KP298335	KP298177
Cornufer_occidentalis	KP298071	KP298071	-	KP298339	KP298187
Cornufer_papuensis	KP298072	KP298072	-	KP298340	KP298188
Cornufer_vitianus	KP298079	KP298079	KP298271	KP298343	KP298193
Cornufer_caesiops	KP298081	KP298081	-	KP298345	KP298195
Cornufer_bufonulus	KP298082	KP298082	-	KP298346	KP298196
Cornufer_hedigeri	KP298083	KP298083	KP298273	KP298347	KP298197
Cornufer_akarithymus	KP298084	KP298084	-	KP298348	KP298198
Cornufer_solomonis	KP298088	KP298088	KP298275	KP298350	KP298202
Cornufer_cheesemanae	KP298096	KP298096	-	KP298355	KP298208
Cornufer_myersi	KP298121	KP298121	KP298298	KP298373	KP298231
Cornufer_parilis	KP298122	KP298122	KP298299	KP298374	KP298232
Cornufer_weberi	KP298149	KP298149	-	KP298394	KP298254
Platymantis_hazelae	KP298061	KP298061	DQ347248	DQ347153	KP298178
Platymantis_corrugatus	KP298058	KP298058	KP298267	KP298334	KP298175
Platymantis_insulatus	KP298062	KP298062	-	KP298337	KP298179
Platymantis_isarog	KP298063	KP298063	-	KP298338	KP298180
Platymantis_banahao	KP298089	KP298089	-	KP298351	KP298203
Platymantis_bayani	KP298091	KP298091	KP298276	KP298352	KP298204
Platymantis_cagayanensis	KP298094	KP298094	KP298278	KP298353	KP298206
Platymantis_diesmosi	KP298097	KP298097	KP298280	KP298356	KP298209
Platymantis_dorsalis	KP298098	KP298098	KP298281	KP298357	KP298210

<i>Platymantis_guentheri</i>	KP298103	KP298103	KP298286	KP298361	KP298215
<i>Platymantis_indepressus</i>	KP298108	KP298108	KP298290	KP298366	KP298220
<i>Platymantis_lawtoni</i>	KP298114	KP298114	KP298293	KP298369	-
<i>Platymantis_levigatus</i>	KP298115	KP298115	KP298294	KP298370	KP298225
<i>Platymantis_luzonensis</i>	KP298117	KP298117	-	KP298371	KP298227
<i>Platymantis_mimulus</i>	KP298120	KP298120	KP298297	-	KP298230
<i>Platymantis_negrosensis</i>	KP298123	KP298123	KP298300	KP298375	KP298233
<i>Platymantis_naomii</i>	KP298124	KP298124	KP298301	KP298376	KP298234
<i>Platymantis_paengi</i>	KP298125	KP298125	KP298302	KP298377	KP298235
<i>Platymantis_panayensis</i>	KP298126	KP298126	KP298303	KP298378	KP298236
<i>Platymantis_polillensis</i>	KP298128	KP298128	KP298305	KP298380	-
<i>Platymantis_pseudodorsalis</i>	KP298129	KP298129	-	KP298381	KP298238
<i>Platymantis_pygmaeus</i>	KP298130	KP298130	KP298306	KP298382	KP298239
<i>Platymantis_rabori</i>	KP298131	KP298131	KP298307	KP298383	KP298240
<i>Platymantis_sierramadrensis</i>	KP298139	KP298139	-	KP298389	KP298248
<i>Platymantis_spelaeus</i>	KP298143	KP298143	KP298313	KP298390	KP298251
<i>Platymantis_subterrestris</i>	KP298146	KP298146	KP298315	KP298392	KP298253
<i>Platymantis_taylori</i>	KP298148	KP298148	KP298316	KP298393	-
Outgroup					
<i>Occidozyga_lima</i>	DQ283224	AF206497	DQ019503	DQ282951	-
<i>Nanorana_parkeri</i>	AF206110	AF206491	DQ019501	EU979964	-
<i>Fejervarya_limnocharis</i>	AB277282	AF206466	-	EU980027	AB526646
<i>Rana_sylvatica</i>	DQ347052	DQ283387	DQ019511	DQ347185	-
<i>Rana_temporaria</i>	AB058864	AB058882	AY323776	KC800261	KC800339
<i>Rana_pipiens</i>	Y10945	X86284	-	EU769542	-
<i>Rana_catesbeianus</i>	NC_022696	NC_022696	AB612037	-	AY819103
<i>Rana_tlaloci</i>	AY779234	AY779234	KX269540	KX269768	KX269465
<i>Rana_septentrionalis</i>	KX269179	KX269179	KX269529	KX269757	KX269454
<i>Rhacophorus_dugritei</i>	EF564471	EF564541	GQ285768	EU215601	GQ285736
<i>Mantidactylus_femoralis</i>	AY843698	AY843698	-	DQ282900	-
<i>Boophis_doulioti</i>	AY341608	AY341663	AY571643	-	-
<i>Pelophylax_nigromaculatus</i>	KT878718	KT878718	HQ902533	DQ282932	-
<i>Phrynodon_sandersoni</i>	DQ283083	DQ283083	GU457749	DQ282973	-

Bufonidae

Species	12s	16s	CXCR4	NCX1	POMC
Adenomus_kelaartii	FJ882780	FJ882780	EF107447	EF107221	-
Anaxyrus_americanus	FJ882827	DQ158426	DQ306520	FJ882676	DQ158268
Anaxyrus_quercicus	DQ158484	DQ158484	DQ306549	-	DQ158325
Anaxyrus_terrestris	FJ882829	FJ882829	DQ306537	FJ882677	DQ158330
Ansonia_hanitschi	AB331710	FJ882794	FJ882695	FJ882642	-
Ansonia_letopus	FJ882795	FJ882795	FJ882697	FJ882644	-
Ghatophryne_ornata	FJ882797	FJ882797	FJ882694	FJ882641	-
Atelopus_peruensis	DQ158419	DQ158419	DQ306495	-	AY819078
Atelopus_spumarius	DQ283260	DQ283260	GU183852	GU183854	-
Barbarophryne_brongersmai	FJ882817	FJ882817	FJ882718	FJ882663	-
Bufo_aspinus	AF160770	AF160787	-	-	-
Bufo_bankorensis	AB159476	AB159589	-	-	-
Bufo_bufo	AY325988	FJ882806	DQ306504	FJ882650	DQ158280
Bufo_cryptotympanicus	AF160771	AF160789	-	-	-
Bufo_gargarizans	NC_008410	NC_008410	FJ882707	FJ882653	-
Bufo_japonicus	AB159452	AB159565	AB612061	AB612062	-
Bufo_stejnegeri	AF218710	NC_027686	-	-	-
Bufo_tibetanus	AF160766	AF160784	-	-	-
Bufo_torrenticola	AB159465	AB159578	JN653312	-	JN653305
Bufo_tuberculatus	AF160765	AF160783	-	-	-
Bufo_tuberospinus	AF160769	AF160788	-	-	-
Bufo_verrucosissimus	FJ882807	FJ882807	FJ882705	FJ882651	-
Bufotes_balearicus	-	EU497437	-	-	-
Bufotes_boulengeri	-	EU497492	-	-	-
Bufotes_oblongus	AF160777	AF160796	-	-	-
Bufotes_pewzowi	GQ489032	-	-	-	-
Bufotes_siculus	-	EU497446	-	-	-
Bufotes_variabilis	GQ489041	-	-	-	-
Bufotes_viridis	AY680267	FJ882813	FJ882714	FJ882659	-
Bufotes_zamdaensis	-	-	-	-	-
Bufotes_zamdaensis	-	-	-	-	-
Bufotes_latastii	-	-	-	-	-
Bufotes_baturae	-	-	-	-	-
Capensibufo_rosei	AF220864	AF220911	-	-	-
Capensibufo_tradouwi	AF220865	AF220912	-	-	-
Churamiti_maridadi	FJ882769	FJ882769	FJ882715	FJ882660	-
Dendrophryniscus_minutus	AY843582	AY843582	DQ306496	-	AY819081
Didynamipus_sjostedti	AY325991	AY325991	-	-	-
Duttaphrynus_atukoralei	FJ882835	FJ882835	FJ882682	FJ882629	-
Duttaphrynus_brevirostris	FJ882786	FJ882786	FJ882686	FJ882633	-
Duttaphrynus_crocus	FJ882789	FJ882789	FJ882690	FJ882637	-

<i>Duttaphrynus_dhufarensis</i>	FJ882837	FJ882837	FJ882679	FJ882626	-
<i>Duttaphrynus_himalayanus</i>	MW111525	MW111525	FJ882688	FJ882635	-
<i>Duttaphrynus_hololius</i>	FJ882781	FJ882781	FJ882680	FJ882627	-
<i>Duttaphrynus_melanostictus</i>	AB331714	FJ882791	DQ306508	AY948805	DQ158317
<i>Duttaphrynus_parietalis</i>	FJ882784	FJ882784	FJ882684	FJ882631	-
<i>Duttaphrynus_scaber</i>	FJ882785	FJ882785	FJ882683	FJ882630	-
<i>Duttaphrynus_stomaticus</i>	FJ882787	FJ882787	FJ882681	FJ882628	-
<i>Duttaphrynus_stuarti</i>	MW111526	MW111526	FJ882689	FJ882636	-
<i>Epidalea_calamita</i>	FJ882809	FJ882809	FJ882709	FJ882655	-
<i>Incilius_alvarius</i>	AY325984	DQ283269	DQ306516	-	AY819079
<i>Incilius_coccifer</i>	DQ158443	DQ158443	DQ306526	-	DQ158284
<i>Ingerophrynus_divergens</i>	FJ882802	FJ882802	FJ882701	FJ882648	-
<i>Ingerophrynus_galeatus</i>	FJ882767	FJ882768	DQ306506	FJ882649	DQ158293
<i>Ingerophrynus_macrotis</i>	DQ158468	FJ882803	DQ306525	-	DQ158309
<i>Ingerophrynus_biporcatus</i>	AY325987	KY555646	KY555668	KX192102	-
<i>Ingerophrynus_parvus</i>	KF664931	MG935843	KF665955	-	KU183067
<i>Ingerophrynus_philippinicus</i>	AF375488	-	-	-	-
<i>Bufoides_meghalayanus</i>	KT991331	KT991342	-	-	-
<i>Leptophryne_borbonica</i>	FJ882799	AB331716	EF107450	EF107224	-
<i>Melanophryniscus_klappenbachi</i>	AY843699	AY843699	-	-	-
<i>Melanophryniscus_stelzneri</i>	FJ882853	FJ882853	DQ306494	AY948822	DQ158263
<i>Mertensophryne_micranotis</i>	FJ882821	FJ882821	EF107491	EF107271	-
<i>Mertensophryne_uzunguensis</i>	FJ882819	FJ882819	FJ882720	FJ882665	-
<i>Nannophryne_apolobambica</i>	DQ158494	DQ158494	DQ306515	-	DQ158335
<i>Nannophryne_cophotis</i>	DQ158446	DQ158446	DQ306540	-	DQ158287
<i>Nectophryne_afra</i>	EU394535	EU394535	-	-	-
<i>Nectophrynoides_tornieri</i>	FJ882815	FJ882815	EF107490	EF107270	-
<i>Nectophrynoides_viviparus</i>	FJ882816	FJ882816	FJ882716	FJ882661	-
<i>Osornophryne_guacamayo</i>	AY819334	AY326036	-	-	AY819083
<i>Pedostibes_hosii</i>	FJ882804	AY325993	EF107449	EF107223	-
<i>Pedostibes_tuberculosis</i>	FJ882793	FJ882793	FJ882693	FJ882640	-
<i>Pelophryne_misera</i>	FJ882800	FJ882800	FJ882700	FJ882647	-
<i>Pelophryne_signata</i>	FJ882801	FJ882801	FJ882699	FJ882646	-
<i>Peltophryne_lemur</i>	DQ158465	DQ158465	DQ306513	-	DQ158306
<i>Phrynoidis_asper</i>	DQ158432	AF124109	DQ306503	-	DQ158273
<i>Phrynoidis_juxtasper</i>	FJ882805	FJ882805	DQ306542	FJ882656	DQ158304
<i>Poyntonophrynus_dombensis</i>	AF220857	AF220907	-	-	-
<i>Rhaebo_haematiticus</i>	DQ158461	DQ158461	DQ306501	-	DQ158277
<i>Rhinella_nattereri</i>	FJ882774	AY028496	DQ306557	FJ882673	DQ158298
<i>Rhinella_schneideri</i>	FJ882831	DQ158480	DQ306528	FJ882674	DQ158322
<i>Rhinella_marina</i>	-	-	-	-	-
<i>Sabahphrynus_maculatus</i>	AB331718	AB331718	-	-	-
<i>Schismaderma_carens</i>	AY325997	AY325997	FJ882717	FJ882662	DQ158266
<i>Sclerophrys_brauni</i>	FJ882822	FJ882822	DQ306514	EF107272	DQ158279

<i>Sclerophrys_garmani</i>	FJ882823	FJ882823	DQ306547	FJ882668	DQ158294
<i>Strauchbufo_raddei</i>	AF160776	GU183855	-	-	-
<i>Vandijkophrynus_amatolicus</i>	AF220851	AF220898	-	-	-
<i>Werneria_mertensiana</i>	DQ283348	DQ283348	-	-	-
<i>Wolterstorffina_parvipalmata</i>	FJ882818	FJ882818	FJ882719	FJ882664	-
<i>Xanthophryne_koynayensis</i>	FJ882782	FJ882782	FJ882691	FJ882638	-
Outgroup					
<i>Odontophrynus_occidentalis</i>	FJ882743	FJ882744	-	AY948835	-
<i>Leptodactylus_melanonotus</i>	DQ347060	AY943237	AY364194	AY948838	-
<i>Leptodactylus_ocellatus</i>	AY843688	-	DQ306492	-	DQ158259
Species	RAG1	ND2			
<i>Adenomus_kelaartii</i>	EF107284	FJ882780			
<i>Anaxyrus_americanus</i>	DQ158352	FJ882827			
<i>Anaxyrus_quercicus</i>	DQ158403	-			
<i>Anaxyrus_terrestris</i>	-	FJ882829			
<i>Ansonia_hanitschi</i>	-	FJ882794			
<i>Ansonia_leptopus</i>	-	FJ882795			
<i>Ghatophryne_ornata</i>	-	FJ882797			
<i>Atelopus_peruensis</i>	-	-			
<i>Atelopus_spumarius</i>	-	DQ068447			
<i>Barbarophryne_brongersmai</i>	-	FJ882817			
<i>Bufo_aspinus</i>	-	-			
<i>Bufo_bankorensis</i>	-	-			
<i>Bufo_bufo</i>	EU497611	FJ882806			
<i>Bufo_cryptotympanicus</i>	-	-			
<i>Bufo_gargarizans</i>	-	FJ882843			
<i>Bufo_japonicus</i>	AB612057	-			
<i>Bufo_stejnegeri</i>	-	NC_027686			
<i>Bufo_tibetanus</i>	-	NC_020048			
<i>Bufo_torrenticola</i>	-	-			
<i>Bufo_tuberculatus</i>	-	-			
<i>Bufo_tuberospinus</i>	-	-			
<i>Bufo_verrucosissimus</i>	-	FJ882807			
<i>Bufotes_balearicus</i>	EU497608	DQ629598			
<i>Bufotes_boulengeri</i>	EU497613	DQ629608			
<i>Bufotes_oblongus</i>	-	DQ629601			
<i>Bufotes_pewzowi</i>	GU064322	DQ629603			
<i>Bufotes_siculus</i>	EU497609	DQ629608			
<i>Bufotes_variabilis</i>	EU497606	DQ629600			
<i>Bufotes_viridis</i>	EU497603	FJ882813			
<i>Bufotes_zamdaensis</i>	-	MW111460			
<i>Bufotes_zamdaensis</i>	-	MW111461			
<i>Bufotes_latastii</i>	-	DQ629599			
<i>Bufotes_baturae</i>	-	DQ629604			

Capensibufo_rosei	-	HG321482
Capensibufo_tradouwi	-	FN650139
Churamiti_maridadi	-	KY555706
Dendrophryniscus_minutus	-	-
Didynamipus_sjostedti	-	-
Duttaphrynus_atukoralei	-	FJ882835-36
Duttaphrynus_brevirostris	-	FJ882786
Duttaphrynus_crocus	-	FJ882789
Duttaphrynus_dhufarensis	-	FJ882837-38
Duttaphrynus_himalayanus	-	FJ882790
Duttaphrynus_hololius	-	FJ882781
Duttaphrynus_melanostictus	EU712821	FJ882791
Duttaphrynus_parietalis	-	FJ882784
Duttaphrynus_scaber	-	FJ882785
Duttaphrynus_stomaticus	-	FJ882787
Duttaphrynus_stuarti	-	FJ882788
Epidalea_calamita	EU497610	FJ882809
Incilius_alvarius	DQ158351	JN868006
Incilius_coccifer	DQ158366	JN868016
Ingerophrynus_divergens	EU712818	FJ882802
Ingerophrynus_galeatus	DQ158374	FJ882768
Ingerophrynus_macrotis	DQ158388	KY555693
Ingerophrynus_biporcatus	KY555715	-
Ingerophrynus_parvus	KF666331	KY555702
Ingerophrynus_philippinicus	-	-
Bufoides_meghalayanus	-	-
Leptophryne_borbonica	EF107287	FJ882799
Melanophryniscus_klappenbachi	-	-
Melanophryniscus_stelzneri	-	FJ882853
Mertensophryne_micranotis	-	FJ882821
Mertensophryne_uzunguensis	-	FJ882819
Nannophryne_apolobambica	DQ158410	-
Nannophryne_cophotis	DQ158369	-
Nectophryne_afra	-	-
Nectophrynoides_tornieri	EF107329	FJ882815
Nectophrynoides_viviparus	-	FJ882816
Osornophryne_guacamayo	-	-
Pedostibes_hosii	EF107286	FJ882804
Pedostibes_tuberculosis	-	FJ882793
Pelophryne_misera	-	FJ882800
Pelophryne_signata	-	FJ882801
Peltophryne_lemur	DQ158386	-
Phrynooidis_asper	DQ158356	KY555704
Phrynooidis_juxtasper	DQ158385	FJ882805

Poyntonophrynus_dombensis	-	AF463794
Rhaebo_haematiticus	DQ158383	JN868019
Rhinella_nattereri	DQ158380	-
Rhinella_schneideri	DQ158399	FJ882831
Rhinella_marina	-	GU907290
Sabahphrynus_maculatus	-	-
Schismaderma_carens	-	FJ882849-50
Sclerophrys_brauni	EF107331	FJ882822
Sclerophrys_garmani	DQ158375	FJ882823
Strauchbufo_raddei	-	NC_028424
Vandijkophrynus_amatolicus	-	-
Werneria_mertensiana	-	-
Wolterstorffina_parvipalmata	-	FJ882818
Xanthophryne_koynayensis	-	FJ882782
Outgroup		
Odontophrynus_occidentalis	AY948934	JX564880
Leptodactylus_melanonotus	AY364224	JX564873
Leptodactylus_ocellatus	DQ158343	-

Megophryidae

Species	16s	COI	BDNF	RAG1	Rhod
Megophrys_sangzhiensis	KX811856	KX812117	KX811961	KX812226	KX812343
Megophrys_spinata	KX811861	KX812121	KX811965	KX812229	KX812345
Megophrys_binlingensis	KX811852	KX812115	KX811970	KX812221	KX812341
Megophrys_jingdongensis	KX811872	KX812131	KX811973	KX812232	KX812350
Megophrys_daweimontis	KX811866	KX812124	KX811968	KX812247	KX812359
Megophrys_wuliangshanensis	KX811881	KX812129	KX811958	KX812258	KX812357
Megophrys_omeimontis	KX811884	KX812136	KX811967	KX812223	KX812347
Megophrys_binchuanensis	KX811848	KX812111	KX811951	KX812218	KX812337
Megophrys_palpebralespinosa	KX811888	KX812137	KX811994	KX812236	KX812363
Megophrys_huangshanensis	KX811819	KX812106	KX811982	KX812215	KX812308
Megophrys_boettgeri	KX811814	KX812104	KX811980	KX812213	KX812305
Megophrys_jinggangensis	KX811840	KX812108	KX811986	KX812242	KX812328
Megophrys_baolongensis	KX811813	KX812093	KX811945	KX812202	KX812318
Megophrys_tubero granulatus	KX811823	KX812095	KX811979	KX812209	KX812331
Megophrys_wushanensis	KX811838	KX812094	KX811984	KX812203	KX812319
Megophrys lini	KX811842	KX812110	KX811988	KX812244	KX812394
Megophrys_brachykolos	KX811897	KX812150	KX811985	KX812217	KX812395
Megophrys_minor	KX811896	KX812145	KX812045	KX812253	KX812325
Megophrys_maosonensis	KX811780	KX812080	KX812024	KX812195	KX812375
Megophrys_mangshanensis	KX811790	KX812079	KX812025	KX812194	KX812377
Megophrys_major	KX811769	KX812090	KX812015	KX812186	KX812372
Megophrys_glandulosa	KX811761	KX812074	KX812010	KX812183	KX812298
Megophrys_medogensis	KX811767	KX812082	KX812017	KX812197	KX812301
Megophrys_zhangii	KX811765	KX812084	KX812026	KX812200	KX812303
Megophrys_parva	KX811797	KX812072	KX812006	KX812181	KX812295
Megophrys_montana	KX811927	KX812163	KX811940	KX812281	KX812390
Megophrys_nasuta	KX811921	KX812054	KX811935	KX812171	KX812289
Megophrys_stejnegeri	KX811922	KX812052	KX811936	KX812172	KX812399
Megophrys_ligayae	KX811919	KX812051	KX811933	KX812169	KX812287
Megophrys_wawuensis	KX811902	KX812062	KX812041	KX812271	KX812314
Megophrys_gigantica	KX811898	KX812058	KX811941	KX812270	KX812312
Megophrys_shapingensis	KX811904	KX812060	KX811943	KX812274	KX812316
Megophrys_aceras	KX811925	KX812159	KX812030	KX812262	KX812310
Megophrys_pachyproctus	KX811908	KX812153	KX811998	KX812265	KX812383
Megophrys_flavipunctata	MH647518	MH647536	-	MH647549	-
Megophrys_himalayana	MH647527	-	-	MH647554	-
Megophrys_oreocrypta	MH647521	-	-	MH647547	-
Megophrys_oropedion	KY022317	MH647534	-	KY022361	-
Megophrys_periosa	MH647524	MH647529	-	MH647555	-
Megophrys_serchhipii	KY022323	MH647532	-	KY022366	-
Megophrys_vegrandis	KY022305	MH647530	-	KY022349	-

Megophrys_zunhebotensis	KY022322	-	-	KY022368	-
Megophrys_ancrae	KY022318	MH647531	-	KY022350	-
Megophrys_robusta	MH647513	MH647535	-	KY022365	-
Megophrys_megacephala	KY022315	MH647533	-	KY022357	-
Ophryophryne_microstoma	KX811914	KX812156	KX812039	KX812277	KX812397
Ophryophryne_hansi	KX811913	KX812155	KX812036	KX812276	KX812396
Borneophrys_edwardinae	KX811918	KX812050	KX811932	KX812168	KX812286
Brachytarsophrys_carinense	KX811811	KX812057	KX811939	KX812268	KX812392
Brachytarsophrys_feae	KX811810	KX812056	KX811938	KX812269	KX812393
Leptolalax_oshanensis	KX811928	KX812166	KX812048	KX812284	KX812402
Leptolalax_ventripunctatus	KX811929	KX812167	KX812049	KX812285	KX812403
Scutiger_boulengeri	KY310750	KY310860	-	KY311026	-
Scutiger_chintingensis	KY310769	KY310878	-	EF397301	-
Scutiger_glandulatus	KY310770	KY310879	-	KY311044	-
Scutiger_mammatus	KY310775	KY310884	-	KY311050	-
Scutiger_nepalensis	KY310776	KY310885	-	KY311051	-
Scutiger_occidentalis	-	KY310901	-	KY311066	-
Scutiger_sikkimensis	KY310802	KY310905	-	KY311073	-
Scutiger_ningshanensis	NC_031426	NC_031426	-	-	-
Scutiger_spinosus	-	KU243055	-	-	-
Scutiger_liupanensis	KX352261	MW021398	-	MW111376	-
Scutiger_tuberculatus	MF805589	MW021397	-	MW111379	-
Scutiger_gongshanensis	-	MW021395	-	MW111380	-
Scutiger_nyingchiensis	KY310796	KU243056	-	MW111377	-
Scutiger_wuguanfui	-	KU243061	-	MW111378	-
Leptobranchium_bompu	MW111515	-	-	-	-
Leptobranchium_bompu	MW111516	-	-	-	-
Leptobranchium_hainanense	AB530447	JN700832	-	EF544338	-
Leptobranchium_banae	AB530452	-	-	EF544314	-
Leptobranchium_ngoclinhense	AB530450	-	-	EF544360	-
Leptobranchium_boringii	KX811930	KX812164	KX812046	MH056123	KX812400
Leptobranchium_huashen	KX811931	KX812165	MH056008	MH056122	MH056143
Leptobranchium_smithi	AB530432	MG935560	-	-	-
Leptobranchium_hasseltii	AB530422	-	-	EF672278	-
Leptobranchium_hendricksoni	AB530418	MG386477	-	-	-
Outgroup					
Pelobates_syriacus	AY236807	-	-	KX208696	-
Pelobates_cultripis	AJ871086	AJ871086	-	AY323758	-
Pelobates_varaldii	AY236808	-	-	-	AY341815
Pelodytes_cf._punctatus	NC_020000	NC_020000	JF703235	AY583343	-
Pelodytes_ibericus	JX564882	JX564882	-	KX984226	-
Scaphiopus_hurterii	AY236828	-	-	EF535900	-
Scaphiopus_holbrookii	AB612078	KU985774	AB612074	AB612071	DQ283852
Scaphiopus_couchii	AY236826	-	-	KX208786	AY323738

Agamidae

Species	ND1–ND2	RAG1	R35	ND4	Cytb
<i>Amphibolurus_muricatus</i>	AF128468	-	-	-	-
<i>Chelosania_brunnea</i>	AF128465	JF806190	JF804583	-	-
<i>Ctenophorus_adelaidensis</i>	AF128471	JF806192	JF804602	-	-
<i>Ctenophorus_isolepis</i>	AF375629	JF806193	JF804587	-	-
<i>Diporiphora_nobbi</i>	AY132999	-	-	AY281164	-
<i>Diporiphora_winneckeii</i>	AY133012	-	-	-	-
<i>Intellagama_lesueurii</i>	AF128466	AY662581	JF804599	-	-
<i>Moloch_horridus</i>	AF128467	JF806197	JF804595	-	-
<i>Physignathus_cocincinus</i>	U82690	AY662582	HQ876322	-	AB263945
<i>Pogona_vitticeps</i>	AY133026	JF806200	JF804600	NC_006922	NC_006922
<i>Rankinia_diemensis</i>	AF375619	-	-	-	-
<i>Tympanocryptis_lineata</i>	EU727400	-	-	-	-
<i>Tympanocryptis_tetraporophora</i>	DQ529269	-	-	-	-
<i>Chlamydosaurus_kingii</i>	EF090489	JF806191	JF804584	EF090423	NC_009421
<i>Hypsilurus_boydii</i>	AY133013	JF806196	JF804592	-	-
<i>Gowidon_temporalis</i>	AY133002	-	-	-	-
<i>Acanthocercus_atricollis</i>	-	-	JX839080	JX857596	-
<i>Agama_agama</i>	AF128504	EU402825	HQ876321	AF443225	-
<i>Agama_anchietae</i>	GQ242169	-	JX839094	GU128483	AF355566
<i>Xenagama_taylori</i>	NC_008065	KP994938	JX839174	NC_008065	NC_008065
<i>Trapelus_agilis</i>	AF128509	JF806201	JF804606	-	-
<i>Trapelus_mutabilis</i>	-	-	JX839170	GU128501	-
<i>Pseudotrapelus_sinaitus</i>	AF128507	-	JX839168	NC_013603	AB116956
<i>Bufoniceps_laungwalaensis</i>	DQ008214	-	-	-	-
<i>Coryphophylax_subcristatus</i>	-	-	-	-	-
<i>Stellagama_stellio</i>	AF128516	-	JX839166	-	-
<i>Paralaudakia_caucasia</i>	AF172705	-	-	AY053998	KF691617
<i>Paralaudakia_himalayana</i>	AF028676	KJ363481	-	-	-
<i>Paralaudakia_lehmanni</i>	GQ242233	KJ363482	-	KF691670	KF691618
<i>Laudakia_wui</i>	-	-	-	KU926290	-
<i>Laudakia_tuberculata</i>	AF128514	-	-	KU926285	-
<i>Laudakia_nupta</i>	AF128513	-	-	KF691667	-
<i>Laudakia_melanura</i>	-	-	-	KX131009	-
<i>Laudakia_sacra</i>	AF128515	-	-	KU926293	-
<i>Laudakia_papenfussi</i>	-	-	-	KU926288	-
<i>Phrynocephalus_arabicus</i>	KF691651	KJ363507	-	KF691675	-
<i>Phrynocephalus_axillaris</i>	KC551439	KC551397	-	KC551305	KF691635
<i>Phrynocephalus_erythrurus</i>	GQ141231	KJ363485	-	KF691684	KF691632
<i>Phrynocephalus_forsythii</i>	KF691661	KJ363484	-	AY054017	KF691633
<i>Phrynocephalus_frontalis</i>	AY396592	KC551407	-	KC551315	AY053909
<i>Phrynocephalus_guinanensis</i>	KC551454	KC551412	-	KC551320	-

Phrynocephalus_guttatus	GQ242203	KJ363491	-	KF691693	KF691640
Phrynocephalus_helioscopus	KF691658	KJ363502	-	KF691683	KF691630
Phrynocephalus_interscapularis	AF128517	KJ363510	-	KF691671	KF691620
Phrynocephalus_maculatus	KF691650	-	-	KF691674	KF691623
Phrynocephalus_mystaceus	AF128518	GQ242237	JF804596	AY054055	KF691626
Phrynocephalus_reticulatus	KF691652	KJ363503	-	KF691676	KF691624
Phrynocephalus_ornatus	KF691649	KJ363509	-	KF691673	KF691622
Phrynocephalus_persicus	KF691657	KJ363500	-	KF691681	KF691631
Phrynocephalus_przewalskii	AY396586	KJ363495	-	AY054061	AY053941
Phrynocephalus_putjatai	HM629331	KJ363487	-	KF691686	KF691634
Phrynocephalus_raddei	KF691653	KJ363504	-	KF691678	KF691625
Phrynocephalus_rossikowi	-	-	-	MG739301	MG739302
Phrynocephalus_scutellatus	KF691655	KJ363508	-	KF691677	KF691619
Phrynocephalus_strauchi	KF691654	KJ363505	-	KF691679	-
Phrynocephalus_theobaldi	KC551462	KC551419	-	KC551328	-
Phrynocephalus_versicolor	KF691664	KJ363497	-	KF691696	KF691641
Phrynocephalus_vlangualii	EF375649	-	-	EU294095	-
Draco_biaro	AF288277	-	-	-	-
Draco_bimaculatus	AF288241	-	-	-	-
Draco_blanfordii	AF288242	JF806194	JF804589	-	-
Draco_cornutus	AF288244	-	-	-	-
Draco_dussumieri	-	-	-	-	-
Draco_haematopogon	AF288259	-	-	-	-
Draco_lineatus	-	-	-	-	-
Draco_maculatus	AF288248	-	-	-	-
Draco_maximus	AF288231	-	-	-	-
Draco_melanopogon	AF288258	-	-	-	-
Draco_obscurus	AF288250	-	-	-	-
Draco_quinquefasciatus	AF288232	-	-	-	-
Draco_taeniopterus	AF288251	-	-	-	-
Draco_volans	AF288267	-	-	AF443226	-
Ptyctolaemus_collicristatus	AY555837	-	-	-	-
Ptyctolaemus_gularis	MW111456	-	-	-	-
Calotes_calotes	AF128482	AY662584	-	-	AB263941
Calotes_ceylonensis	AF128483	-	-	-	-
Calotes_emma	DQ289460	JF806189	JF804581	-	-
Calotes_htunwini	DQ289464	-	-	-	-
Calotes_jerdoni	GQ502783	-	-	-	-
Calotes_medogensis	MW111455	-	-	-	-
Calotes_mystaceus	AF128487	-	-	-	-
Calotes_versicolor	DQ289478	-	-	NC_009683	AY572870
Calotes_chincollium	DQ289459	-	-	-	-
Calotes_irawadi	DQ289468	-	-	-	-
Calotes_minor	KT952396	KT952398	-	-	-

Japalura_andersoniana	MK001394	-	MK001445	-	-
Japalura_kumaonensis	MK001396	-	MK001479	-	-
Japalura_tricarinata	AF128478	AY662585	MK001480	-	-
Japalura_variegata	AF128479	-	-	-	-
Pseudocalotes_bapoensis	MK001436	-	MK001453	-	-
Cristidorsa_otai	MK0014101	-	MK001441	-	-
Cristidorsa_planidorsata	MK001400	-	MK001442	-	-
Diploderma_batangensis	MK001412	-	-	-	-
Diploderma_brevipes	MK001429	-	MK001464	-	-
Diploderma_chapaensis	MG214262	-	MK001474	-	-
Diploderma_dymondi	MK001422	-	MK001477	-	-
Diploderma_flaviceps	MK001416	-	MK001472	-	-
Diploderma_iadinum	MW111458	-	-	-	-
Diploderma_laeviventris	MK001407	-	MK001466	-	-
Diploderma_luei	MK001433	-	MK001462	-	-
Diploderma_makii	MK001431	-	MK001460	-	-
Diploderma_micangshanensis	MK001424	-	MK001452	-	-
Diploderma_polygonata	MK001427	-	MK001458	-	-
Diploderma_slowinskii	MK001405	-	-	-	-
Diploderma_splendidum	MK001418	-	MK001476	-	-
Diploderma_swinhoni	MK001419	-	MK001456	-	-
Diploderma_varcoae	MW111459	-	-	-	-
Diploderma_vela	MK001414	-	MK001448	-	-
Diploderma_yulongense	MK001410	-	MK001450	-	-
Diploderma_yunnanense	MK001409	-	MK001469	-	-
Diploderma_zhaoermii	MK001425	-	MK001467	-	-
Mictopholis_austeniana	MW111457	-	-	-	-
Pseudocalotes_brevipes	AF128502	MG599031	-	KY884011	AY572869
Sarada_deccanensis	KT831315	KT831296	KT831279	-	-
Sitana_sivalensis	MG641403	MG641352	MG641310	-	-
Sitana_ponticeriana	KT831326	KT831304	KT831286	-	-
Sitana_spinaecephalus	KT831336	KT831309	KT831290	-	-
Sitana_laticeps	KT831323	KT831302	KT831284	-	-
Sitana_visiri	KT831340	KT831312	KT831293	-	-
Sitana_marudhamneydhal	KX371915	MG641332	KX371918	-	-
Otocryptis_beddomei	MG650165	MG641363	MG641324	-	-
Acanthosaura_armata	NC_014175	-	-	NC_014175	AY572872
Acanthosaura_lepidogaster	AF128499	JF806187	JF804578	-	AY572923
Salea_horsfieldii	AF128490	MG599032	-	-	-
Mantheyus_phuwuanensis	AY555836	FJ356735	-	-	-
Ceratophora_aspera	AF128491	-	-	-	-
Lyriocephalus_scutatus	AF364052	MG599029	-	-	-
Aphanotis_fusca	AF288228	-	-	-	-
Gonocephalus_grandis	AF128496	-	-	-	AB263939

Bronchocela_cristatella	AF288229	-	-	-	-
Hydrosaurusamboinensis	NC_014178	JF806195	JF804591	NC_014178	NC_014178
Leiolepisbelliana	U82689	AY662587	HQ876324	-	-
Leiolepisguttata	NC_014179	-	-	NC_014179	NC_014179
Uromastyxacanthinura	AB113801	AY988025	-	-	AB474753
Uromastyxaegyptia	AB113806	-	-	AF443224	AB116942
Saarahardwickii	AB113803	GU457972	HQ876325	-	AB474757
Outgroup					
Brookesiabrygooi	FJ975191	JF806188	JF804580	FJ981800	-
Chamaeleocalyptratus	AF448744	GU457970	HQ876323	HF570566	-
Phrynosomacornutum	DQ385344	FJ356738	-	U66224	AY141087
Phrynosomaplatyrhinus	DQ385354	DQ385419	JF804597	JN809350	EU543746
Umascoparia	AF049861	JF806214	JF804608	-	EU543750
Utastansburiana	AF049863	DQ385422	JF804610	JX481607	JX481462
Petrosaurusmearnsi	JN648436	GQ896005	HQ876333	AF210354	GQ272777
Sceloporusgraciosus	AF049860	EU085722	GQ464646	EU085839	KC853847
Crotaphytuscollaris	EU038620	FJ356749	JF804586	EU085839	KC853847
Gambeliawislizenii	NC_012831	AY662600	HQ876327	KC621497	EU116511
Brachylophusfasciatus	AF528721	AY988026	JF804579	U66238	KX610572
Dipsosaurusdorsalis	AF049857	FJ356747	HQ876329	KX579001	KX610606
Sauromalusater	U82687	AY662591	JF804603	HM352518	KX610613
Polychrusmarmoratus	NC_012839	FJ356748	HQ876335	NC_012839	MH221669
Leiocephalusbarahonensis	EF591774	-	DQ119622	-	KU710319
Anoliscarolinensis	NC_010972	FJ356739	HQ876334	EU747728.2	EU747728.2
Basiliscusvittatus	NC_012829	-	-	NC_012829	NC_012829
Corytophanescristatus	AF528717	JF806205	JF804585	-	-
Stenocercusguentheri	DQ080223	HQ876440	HQ876337	-	-
Tropidurushispidus	AY625154	AY988013	-	-	KU245065
Uranoscodonsuperciliosus	AF528749	JF806215	JF804609	-	KU245082
Enyalioideslaticeps	EU586748	EU586773	JF804590	U66226	-
Morunasaurusannularis	EU586758	FJ356741	HQ876328	-	-
Liolaemusbellii	AF099223	HQ876436	HQ876331	-	MH178577
Phymaturusindistinctus	AY661893	-	-	AY367851.2	MH923556
Chalarodonmadagascariensis	AB266748	FJ356745	JF804582	NC_012836	NC_012836
Opluruscuvieri	U82685	AY662601	-	U66225	KY942063
Urostrophusvautieri	AF528734	HQ876435	HQ876330	KM517830	KT342907
Leiosauruscatamarcensis	AF528731	JF806207	JF804594	-	KT342892
Pristidactylustorquatus	-	JF806210	JF804601	-	KT342906
Species	12s-16s	C-mos	BDNF		
Amphibolurusmuricatus	-	AF137523	DQ340701		
Chelosaniabrunnea	-	DQ340664	JF806006		
Ctenophorusadelaidensis	-	DQ340692	JF806008		
Ctenophorusisolepis	-	DQ340671	DQ340715		
Diporiphoranobbi	-	DQ340661	DQ340702		

Diporiphora_winneckeii	-	DQ340680	DQ340725
Intellagama_lesueurii	AB031974- AB031991	DQ340689	DQ340737
Moloch_horridus	-	DQ340697	DQ340746
Physignathus_cocincinus	AF236822- AB031990	AY987991	HQ876215
Pogona_vitticeps	AB166795- AB031992	DQ340691	DQ340739
Rankinia_diemensis	-	DQ340693	DQ340741
Tympanocryptis_lineata	-	DQ340694	DQ340742
Tympanocryptis_tetraporophora	EF081041	DQ340695	DQ340743
Chlamydosaurus_kingii	EF090423- EF090423	DQ340665	DQ340708
Hypsilurus_boydii	-	DQ340682	DQ340727
Gowidon_temporalis	AB031970- AB031987	DQ340662	DQ340703
Acanthocercus_atricollis	JX668130	JX838888	-
Agama_agama	GU133310	AF137530	EU402615
Agama_anchietae	AF355524	JX838905	-
Xenagama_taylori	GU128466	JX838994	-
Trapelus_agilis	HQ901109	-	JF806016
Trapelus_mutabilis	GU128465	-	-
Pseudotrapelus_sinaitus	NC_013603	-	-
Bufoniceps_laungwalaensis	-	-	-
Coryphophylax_subcristatus	EU502966- EU503021	-	-
Stellagama_stellio	GU952115- GU128464	-	-
Paralaudakia_caucasia	AY053643- AY053765	DQ340686	DQ340732
Paralaudakia_himalayana	-	-	KJ363402
Paralaudakia_lehmanni	-	-	-
Laudakia_wui	-	-	-
Laudakia_tuberculata	HM040916- HM921190	-	-
Laudakia_nupta	HQ901100	-	-
Laudakia_melanura	-	-	-
Laudakia_sacra	-	-	-
Laudakia_papenfussi	-	-	-
Phrynocephalus_arabicus	-	-	KJ363434
Phrynocephalus_axillaris	AY053656- AY053779	-	KJ363410
Phrynocephalus_erythrurus	-	-	KJ363406
Phrynocephalus_forsythii	AY053659-	-	KJ363405

	AY053784		
Phrynocephalus_frontalis	-	-	KJ363409
Phrynocephalus_guinanensis	-	-	-
Phrynocephalus_guttatus	AY053678- AY053800	-	KJ363414
Phrynocephalus_helioscopus	AY053682- AY053817	-	KJ363426
Phrynocephalus_interscapularis	-	-	KJ363436
Phrynocephalus_maculatus	-	-	KJ363433
Phrynocephalus_mystaceus	AY053700- AY053822	AF137527	DQ340735
Phrynocephalus_reticulatus	-	-	KJ363428
Phrynocephalus_ornatus	-	-	KJ363435
Phrynocephalus_persicus	-	-	KJ363424
Phrynocephalus_przewalskii	AY053702- AY053828	-	KJ363419
Phrynocephalus_putjatai	-	-	KJ363408
Phrynocephalus_raddei	-	-	KJ363429
Phrynocephalus_rossikowi	-	-	-
Phrynocephalus_scutellatus	-	-	-
Phrynocephalus_strauchi	-	-	KJ363430
Phrynocephalus_theobaldi	-	-	-
Phrynocephalus_versicolor	-	-	KJ363421
Phrynocephalus_vlangalii	AY053749- AY053880	-	AF497714
Draco_biaro	-	-	-
Draco_bimaculatus	-	-	-
Draco_blanfordii	AB023733- AB023751	-	JF806010
Draco_cornutus	AB023729- AB023752	-	-
Draco_dussumieri	AB023734- AB023753	-	-
Draco_haematopogon	AB023736- AB023755	-	-
Draco_lineatus	AB023738- AB023757	-	-
Draco_maculatus	AB023739- AB023758	-	-
Draco_maximus	AB023740- AB023760	-	-
Draco_melanopogon	AB023742- AB023762	-	-
Draco_obscurus	AB023744-	-	-

	AB023764		
Draco_quinquefasciatus	AB023745-	-	-
	AB023766		
Draco_taeniopterus	AB023747-	-	-
	AB023767		
Draco_volans	AB023731-	-	-
	AB023770		
Ptyctolaemus_collicristatus	-	-	-
Ptyctolaemus_gularis	-	-	-
Calotes_calotes	-	-	-
Calotes_ceylonensis	-	-	-
Calotes_emma	-	-	JF806005
Calotes_htunwini	-	-	-
Calotes_jerdoni	-	-	-
Calotes_medogensis	-	-	-
Calotes_mystaceus	-	-	-
Calotes_versicolor	AB183287-	AF137525	DQ340705
	AB031981		
Calotes_chincollium	-	-	-
Calotes_irawadi	-	-	-
Calotes_minor	-	-	-
Japalura_andersoniana	-	MK001486	MK001556
Japalura_kumaonensis	-	-	-
Japalura_tricarinata	-	MK001491	MK001560
Japalura_variegata	-	-	-
Pseudocalotes_bapoensis	-	MK001503	MK001550
Cristidorsa_otai	-	-	-
Cristidorsa_planidorsata	-	-	-
Diploderma_batangensis	-	-	-
Diploderma_brevipes	-	MK001506	MK001540
Diploderma_chapaensis	-	MK001494	MK001526
Diploderma_dymondi	-	MK001513	MK001545
Diploderma_flaviceps	-	MK001512	MK001528
Diploderma_iadinum	-	-	-
Diploderma_laeviventris	-	-	MK001529
Diploderma_luei	-	MK001510	MK001532
Diploderma_makii	-	MK001508	MK001536
Diploderma_micangshanensis	-	-	MK001559
Diploderma_polygonata	-	MK001515	MK001538
Diploderma_slowinskii	-	-	-
Diploderma_splendidum	-	MK001492	MK001522
Diploderma_swinhoni	-	MK001495	MK001534
Diploderma_varcoae	-	MK001493	MK001523
Diploderma_vela	-	MK001499	MK001530

<i>Diploderma_yulongense</i>	-	MK001498	MK001542
<i>Diploderma_yunnanense</i>	-	MK001517	MK001524
<i>Diploderma_zhaoermii</i>	-	MK001500	MK001547
<i>Mictopholis_austeniana</i>	-	-	-
<i>Pseudocalotes_brevipes</i>	-	-	-
<i>Sarada_deccanensis</i>	-	-	-
<i>Sitana_sivalensis</i>	-	-	-
<i>Sitana_ponticeriana</i>	-	-	-
<i>Sitana_spinaecephalus</i>	-	-	-
<i>Sitana_laticeps</i>	-	-	-
<i>Sitana_visiri</i>	-	-	-
<i>Sitana_marudhamneydhal</i>	-	-	-
<i>Otocryptis_beddomei</i>	-	-	-
<i>Acanthosaura_armata</i>	NC_014175	-	-
<i>Acanthosaura_lepidogaster</i>	-	-	JF806003
<i>Salea_horsfieldii</i>	-	-	-
<i>Mantheyus_phuwuanensis</i>	AB023750- AB023772	-	-
<i>Ceratophora_aspera</i>	-	-	-
<i>Lyriocephalus_scutatus</i>	-	-	-
<i>Aphaniotis_fusca</i>	AB023749- AB023771	-	-
<i>Gonocephalus_grandis</i>	AB031966- AB031983	-	-
<i>Bronchocela_cristatella</i>	EU503024	-	-
<i>Hydrosaurusamboinensis</i>	NC_014178	-	JF806011
<i>Leiolepis_belliana</i>	AB031969- AB031986	FJ984253	HQ876216
<i>Leiolepis_guttata</i>	NC_014179	-	-
<i>Uromastyx_acanthinura</i>	FJ639598	AY987992	AY987979
<i>Uromastyx_aegyptia</i>	AB031977- AB031994	AF137531	-
<i>Saara_hardwickii</i>	FJ639591	-	GU457849
Outgroup			
<i>Brookesia_brygooi</i>	HF570400	FJ984306	JF806004
<i>Chamaeleo_calypttratus</i>	HF570443	HF570667	GU457847
<i>Phrynosoma_cornutum</i>	DQ385390	AY987989	KR360458
<i>Phrynosoma_platyrhinos</i>	DQ385401	-	DQ385330
<i>Uma_scoparia</i>	AF194260	-	JF806029
<i>Uta_stansburiana</i>	GQ464578	AF315389	JN648395
<i>Petrosaurus_mearnsi</i>	L41450	-	HQ876221
<i>Sceloporus_graciosus</i>	AF440090	-	EU085928
<i>Crotaphytus_collaris</i>	L41443	AY987985	JF806021
<i>Gambelia_wislizenii</i>	AY217995	AY217842	KP820845

Brachylophus_fasciatus	-	AY987993	JF806018
Dipsosaurus_dorsalis	KC621331	AF148705	GQ853275
Sauromalus_ater	-	HM352537	JF806026
Polychrus_marmoratus	AF338329	AY987983	AY987966
Leiocephalus_barahonensis	U39564.2	DQ119594	HQ876223
Anolis_carolinensis	EU747728.2	-	EU402616
Basiliscus_vittatus	NC_012829	-	-
Corytophanes_cristatus	-	AF315390	JF806020
Stenocercus_guentheri	L41481	-	HQ876224
Tropidurus_hispidus	U39563	AY987984	AY987967
Uranoscodon_superciliosus	AF362543	-	JF806030
Enyalioides_laticeps	KY982512	-	GU457848
Morunasaurus_annularis	-	-	HQ876218
Liolaemus_bellii	AY662069	-	HQ876220
Phymaturus_indistinctus	AY367823	AY367880	-
Chalarodon_madagascariensis	NC_012836	AY987987	JF806019
Oplurus_cuvieri	U39587	EU099681	AY987971
Urostrophus_vautieri	KM517592	-	HQ876219
Leiosaurus_catamarcensis	AF338341	-	JF806022
Pristidactylus_torquatus	KT342933	-	JF806025

Elapidae

Species	Cytb	ND4	12s	16s	C-mos
Acanthophis_praelongus	AY340135	AY340164	EU547112	EU547161	EU546926
Aipysurus_laevis	DQ233922	EF506638	EU547132	DQ233997	EU546945
Aspidomorphus_muelleri	AF217814	EU546999	EU547090	EU547139	EU366448
Austrelaps_superbus	AF217815	EU547030	EU547127	EU547176	EU546940
Brachyurophis_semifasciatus	EU547058	EU547012	EU547107	EU547156	EU546922
Cacophis_squamulosus	EU547052	EU547007	EU547101	EU547150	EU366451
Demansia_papuensis	EU547044	EU547002	EU547093	EU547142	EU546910
Denisonia_devisi	EU547071	EU547023	EU547120	EU547169	EU546933
Drysdalia_coronoides	EU547075	EU547027	EU547124	EU547173	EU546937
Echiopsis_curta	EU547072	EU547024	EU547121	EU547170	EU546934
Elapognathus_coronatus	EU547069	EU547021	EU547118	EU547167	EU546931
Emydocephalus_annulatus	EU547087	EU547038	EU547136	EU547185	EU546947
Ephalophis_greyae	KC014392	KC014466	-	KC014318	-
Furina_diadema	EU547053	EU547008	EU547102	EU547151	EU546917
Hemiaspis_dameli	DQ233952	EU547025	EU547122	EU547171	EU546935
Hoplocephalus_bitorquatus	EU547079	EU547031	EU547128	EU547177	EU546941
Hydrelaps_darwiniensis	EU547084	EU547035	EU547133	EU547182	EU546946
Hydrophis_cyanocinctus	DQ233946	FJ593215	-	DQ234032	FJ587189
Micropechis_ikaheka	AF217826	EU547000	EU547091	EU547140	EU366449
Neelaps_calonotus	EU547060	EF210841	EU547109	EU547158	EU546923
Notechis_scutatus	AF217836	EU547034	U96802	-	EU546944
Oxyuranus_microlepidotus	EU547050	EF210823	EU547099	EU547148	EU366450
Paroplocephalus_atriceps	EU547080	EU547032	EU547129	EU547178	EU546942
Parahydrophis_mertoni	DQ233974	FJ593201	-	DQ234048	FJ587177
Parasuta_monachus	EU547067	EU547019	EU547116	EU547165	EU546929
Pseudechis_australis	AY343091	AY340177	AJ749363	EU547144	EU546912
Pseudonaja_textilis	EU547048	DQ098645	EU547097	EU547146	EU546914
Rhinoplocephalus_bicolor	EU547068	EU547020	EU547117	EU547166	EU546930
Simoselaps_anomalus	EU547061	EU547014	EU547110	EU547159	EU546924
Suta_suta	EU547066	EU547018	EU547115	EU547164	EU366452
Toxicocalamus_preussi	AF217825	EU547001	EU547092	EU547141	EU546909
Tropidechis_carinatus	EU547081	EU547033	EU547130	EU547179	EU546943
Vermicella_intermedia	EU547055	EF210842	EU547104	EU547153	EU546919
Aspidelaps_scutatus	KX694861	-	KX694563	KX694617	KX694796
Bungarus_bungaroides	AJ748689	AJ830218	-	-	-
Bungarus_caeruleus	AJ749305	AJ830220	-	-	-
Bungarus_candidus	AJ749343	AJ830255	JN687932	JN687933	-
Bungarus_ceylonicus	KC347466	KC347501	KC347316	KC347350	KC347390
Bungarus_fasciatus	EU547086	EU547037	EU547135	EU547184	EU366447
Bungarus_flaviceps	AJ749351	AJ830251	-	-	-
Bungarus_multicinctus	AJ749345	NC 011392	EU579522	EF520682	AF435021

Bungarus_niger	AJ749304	AJ830241	-	-	-
Bungarus_sindanus	AJ749346	AJ830242	-	-	-
Bungarus_slowinskii	AJ749306	AJ830250	-	-	-
Calliophis_melanurus	KC347458	KC347502	KC347317	KC347351	KC347391
Calliophis_bivirgata	AF217812	AY058979	U96800	-	AY058934
Calliophis_bibroni	KX573695	-	-	-	-
Calliophis_castoe	KX573696	JQ282155	-	-	-
Calliophis_intestinalis	-	KX130761	-	-	-
Calliophis_nigrescens	-	JQ282156	-	-	-
Cryptophis_nigrescens	EU547070	EU547022	EU547119	EU547168	EU546932
Dendroaspis_angusticeps	JF357936	JF357927	AF544764	JF357945	AF544735
Elapsoidea_semiannulata	AF039260	JF357928	AF544745	JF357946	AF544678
Hemachatus_haemachatus	AF217821	-	U96797	-	-
Hemibungarus_calligaster	EF137411	EF137403	-	-	EF137419
Laticauda_colubrina	AF217834	EU546998	EU547089	EU547138	AY058932
Micruroides_euryxanthus	AF217823	-	Z46433	Z46483	-
Micrurus_surinamensis	EF137415	EF137407	AF544770	AF544799	AF544708
Naja_kaouthia	MW111477	MW111432	MW020355	MW019917	AY058938
Naja_atra	MW111478	MW111433	MW020356	MW019918	-
Naja_annulata	AY188010	AY058970	-	AY188049	AY187971
Naja_siamensis	AB920242	-	JN687926	JN687927	-
Naja_sumatrana	AB920240	-	JN687928	JN687929	-
Naja_naja	DQ272477	DQ897690	NC_010225	GQ359756	AF435020
Naja_haje	AY611994	GQ359585	GQ359666	AY611811	AY611903
Naja_annulifera	AF155216	GQ359586	GQ359667	GQ359753	-
Naja_nivea	AF217827	AY058983	EU624238	GQ359755	AY058939
Naja_ashei	GQ359493	GQ359575	GQ359656	GQ359742	-
Naja_mossambica	GQ359495	GQ359577	GQ359658	GQ359744	-
Naja_nigricollis	AF399746	DQ897697	EU624237	GQ359754	-
Naja_katiensis	GQ359494	GQ359576	GQ359657	GQ359743	-
Naja_pallida	AF399750	DQ897714	GQ359659	GQ359745	-
Naja_nubiae	AF399752	DQ897718	GQ359660	GQ359746	-
Naja_melanoleuca	-	JF357931	U96801	JF357949	-
Naja_multifasciata	AF217837	AY058985	-	-	AY058941
Ophiophagus_hannah	EF694840	NC_011394	EU921899	NC_011394	AY058940
Sinomicrurus_japonicus	AF217831	AY058971	D31615	-	AY058926
Sinomicrurus_kelloggii	EF137417	EF137409	-	-	EF137424
Sinomicrurus_maclellandii	EF137418	EF137410	D31616	-	EF137425
Walterinnesia_aegyptia	AF217838	AY058988	U96807	-	AY058943
Outgroup					
Eryx_miliaris	U69824	AF302942	AF544746	-	AF544683
Boa_constrictor	AB177354	AB177354	AB177354	AB177354	AF471115
Eunectes_notaeus	AM236347	AM236347	AM236347	AM236347	-
Psammophis_lineatus	DQ486428	EU526861	FJ404152	FJ404216	FJ404256

<i>Compsophis albiventris</i>	AY188011	FJ404351	FJ404149	AY188050	AY187972
<i>Sistrurus catenatus</i>	AY223610	AF156575	HQ257513	AF259119	JN090134
<i>Crotalus atrox</i>	AY223608	DQ679856	AF259258	AF057272	JN090135
<i>Crotalus viridis</i>	AF471066	AF194157	DQ020029	AF259145	AF471135
<i>Vipera ursinii</i>	-	EF012798	EF012817	-	AF433658
<i>Bitis arietans</i>	AY235728	EU852304	EU852316	JF357953	-
<i>Trimeresurus trigonocephalus</i>	KC347488	AY059597	KC347336	KC347374	-
<i>Pareas carinatus</i>	JQ598940	-	AF544773	AF544802	AF544692
<i>Achalinus meiguensis</i>	FJ424614	FJ424614	FJ424614	FJ424614	-
<i>Acrochordus granulatus</i>	AB177879	AB177879	AB177879	AB177879	AF471124
<i>Acrochordus javanicus</i>	-	HM234055	AF512745	Z46502	HM234058
<i>Anilius scytale</i>	NC_014343	NC_014343	NC_014343	NC_014343	AF544722
<i>Cylindrophis maculatus</i>	-	-	KC347320	KC347355	-
<i>Cylindrophis ruffus</i>	AB179619	AB179619	AB179619	AB179619	AF471133
<i>Cantoria violacea</i>	EF395897	-	EF395873	EF395848	EF395922
<i>Cerberus rynchops</i>	EF395901	U49327	AF499289	EF395852	EF395926
<i>Loxocemus bicolor</i>	AY099993	-	AF512737	AF512737	AY099969
<i>Broghammerus reticulatus</i>	U69860	-	Z46448	EF545062	AF039472
<i>Xenopeltis unicolor</i>	NC_007402	NC_007402	NC_007402	NC_007402	DQ465561
<i>Indotyphlops braminus</i>	NC_010196	NC_010196	NC_010196	NC_010196	AY099980
<i>Lycodon osmanhilli</i>	-	KC347524	-	KC347364	KC347403
<i>Oligodon arnensis</i>	KC347464	KC347504	KC347327	KC347365	KC347404
<i>Rhabdophis subminiatus</i>	JQ598951	JQ687411	AF544776	AF544805	JQ687436
<i>Thamnophis sirtalis</i>	L33290	AY136243	AF402646	KX694670	DQ902094
<i>Thermophis zhaoermii</i>	GQ166168	GQ166168	GQ166168	GQ166168	KP777529
<i>Oxyrhabdium leporinum</i>	MG458755	-	-	-	MG458765
<i>Homoroselaps lacteus</i>	AF217833	FJ404339	FJ404135	AY611843	AY058931

Species

RAG1

<i>Acanthophis praelongus</i>	EU546887
<i>Aipysurus laevis</i>	EU546906
<i>Aspidomorphus muelleri</i>	EU366434
<i>Austrelaps superbus</i>	EU546901
<i>Brachyuropsis semifasciatus</i>	EU546883
<i>Cacophis squamulosus</i>	EU366440
<i>Demansia papuensis</i>	EU546871
<i>Denisonia devisi</i>	EU546894
<i>Drysdalia coronoides</i>	EU546898
<i>Echiopsis curta</i>	EU546895
<i>Elapognathus coronatus</i>	EU546892
<i>Emydocephalus annulatus</i>	EU546908
<i>Ephalophis greyae</i>	-
<i>Furina diadema</i>	EU546878
<i>Hemiaspis dameli</i>	EU546896
<i>Hoplocephalus bitorquatus</i>	EU546902

Hydrelaps_darwiniensis	EU546907
Hydrophis_cyanocinctus	FJ587112
Micropechis_ikaheka	EU366435
Neelaps_calonotus	EU546884
Notechis_scutatus	-
Oxyuranus_microlepidotus	EU366439
Paroplocephalus_atriceps	EU546903
Parahydrophis_mertoni	FJ587099
Parasuta_monachus	EU546890
Pseudechis_australis	EU546873
Pseudonaja_textilis	EU546875
Rhinoplocephalus_bicolor	EU546891
Simoselaps_anomalus	EU546885
Suta_suta	EU366436
Toxicocalamus_preussi	EU546870
Tropidechis_carinatus	EU546904
Vermicella_intermedia	EU546880
Aspidelaps_scutatus	-
Bungarus_bungaroides	-
Bungarus_caeruleus	-
Bungarus_candidus	-
Bungarus_ceylonicus	-
Bungarus_fasciatus	EU366438
Bungarus_flaviceps	-
Bungarus_multicinctus	-
Bungarus_niger	-
Bungarus_sindanus	-
Bungarus_slowinskii	-
Calliophis_melanurus	-
Calliophis_bivirgata	-
Calliophis_bibroni	-
Calliophis_castoe	-
Calliophis_intestinalis	-
Calliophis_nigrescens	-
Cryptophis_nigrescens	EU546893
Dendroaspis_angusticeps	-
Elapsoidea_semiannulata	-
Hemachatus_haemachatus	-
Hemibungarus_calligaster	-
Laticauda_colubrina	EU366433
Micruroides_euryxanthus	-
Micrurus_surinamensis	-
Naja_kaouthia	-
Naja_atra	-

Naja_annulata	-
Naja_siamensis	-
Naja_sumatrana	-
Naja_naja	EU366432
Naja_haje	-
Naja_annulifera	-
Naja_nivea	-
Naja_ashei	-
Naja_mossambica	-
Naja_nigricollis	-
Naja_katiensis	-
Naja_pallida	-
Naja_nubiae	-
Naja_melanoleuca	-
Naja_multifasciata	-
Ophiophagus_hannah	-
Sinomicrurus_japonicus	-
Sinomicrurus_kelloggii	-
Sinomicrurus_mcclellandii	-
Walterinnesia_aegypta	-

Outgroup

Eryx_miliaris	AY487393
Boa_constrictor	AY487351
Eunectes_notaeus	AY988063
Psammophis_lineatus	-
Compsophis_albiventris	-
Sistrurus_catenatus	-
Crotalus_atrox	-
Crotalus_viridis	-
Vipera_ursinii	-
Bitis_arietans	EU852328
Trimeresurus_trigonocephalus	-
Pareas_carinatus	-
Achalinus_meiguensis	-
Acrochordus_granulatus	HM234060
Acrochordus_javanicus	HM234061
Anilius_scytale	AY988072
Cylindrophis_maculatus	KC347433
Cylindrophis_ruffus	AY662613
Cantoria_violacea	-
Cerberus_rynchops	EU366441
Loxocemus_bicolor	AY444061
Broghammerus_reticulatus	EU624119
Xenopeltis_unicolor	EU402870

Indotyphlops_braminus	AY662612
Lycodon_osmanhilli	KC347441
Oligodon_arnensis	KC347442
Rhabdophis_subminiatus	-
Thamnophis_sirtalis	-
Thermophis_zhaoermii	-
Oxyrhabdium_leporinum	-
Homoroselaps_lacteus	-

Anguidae

Species	COI	Cytb	ND2	ND4	AKAP9
Abronia_graminea	AB080273	AB080273	AB080273	AB080273	KY712872
Anguis_fragilis	EU443256	EU443256	EU443256	EU443256	KY712869
Barisia_imbricata	-	AF056597	AF085613	AY605116	-
Dopasia_gracilis	MW021342	NC030369	NC030369	NC030369	-
Dopasia_hainanensis	MW021343	-	-	-	-
Dopasia_harti	NC022700	KY712783	AF085624	KY712810	KY712870
Dopasia_sp	MW021344	-	-	-	-
Elgaria_kingii	-	KY712790	KY712769	KY712818	KY712879
Gerrhonotus_parvus	-	KY712787	KY712768	KY712814	KY712875
Hyalosaurus_koellikeri	-	-	AF085621	-	-
Mesaspis_monticola	MH274440	-	-	MG598733	-
Ophisaurus_attenuatus	EU747729	EU747729	EU747729	EU747729	-
Ophisaurus_ventralis	KU986014	KY712784	KY712766	KY712811	KY712871
Pseudopus_apodus	-	KY712782	AF085623	KY712808	JN614168
Outgroup					
Anniella_pulchra	KU985941	AF195090	AF085606	AY620747	JN614136
Celestus_enneagrammus	-	-	AF085607	MG598720	JN614144
Diploglossus_pleei	-	-	AF085609	-	-
Ophiodes_striatus	-	-	AF085610	-	-
Species	ATPSb	BACH1	EXPH5	NKTR	SELT
Abronia_graminea	KY712923	KY712981	KY713030	KY713062	KY713114
Anguis_fragilis	KY712920	KY712978	KY713027	KY713059	-
Barisia_imbricata	-	-	-	-	-
Dopasia_gracilis	-	-	-	-	-
Dopasia_hainanensis	-	-	-	-	-
Dopasia_harti	KY712921	KY712979	KY713028	KY713060	KY713112
Dopasia_sp	-	-	-	-	-
Elgaria_kingii	KY712930	KY712988	KY713035	KY713069	KY713122
Gerrhonotus_parvus	KY712926	KY712984	KY713032	KY713065	KY713117
Hyalosaurus_koellikeri	-	-	-	-	-
Mesaspis_monticola	-	-	-	-	-
Ophisaurus_attenuatus	-	-	-	-	-
Ophisaurus_ventralis	KY712922	KY712980	KY713029	KY713061	KY713113
Pseudopus_apodus	KY712919	JN614195	KY713026	KY713058	KY713111
Outgroup					
Anniella_pulchra	-	-	-	JN614006	-
Celestus_enneagrammus	-	JN614186	-	JN614010	-
Diploglossus_pleei	-	-	-	-	-
Ophiodes_striatus	-	-	-	-	-
Species	UBN1				
Abronia_graminea	KY713180				

Anguis_fragilis	KY713177
Barisia_imbricata	-
Dopasia_gracilis	-
Dopasia_hainanensis	-
Dopasia_harti	KY713178
Dopasia_sp	-
Elgaria_kingii	KY713187
Gerrhonotus_parvus	KY713183
Hyalosaurus_koellikeri	-
Mesaspis_monticola	-
Ophisaurus_attenuatus	-
Ophisaurus_ventralis	KY713179
Pseudopus_apodus	JN614070
Outgroup	
Anniella_pulchra	JN614047
Celestus_enneagrammus	JN614054
Diploglossus_pleei	-
Ophiodes_striatus	-

Pareidae

Species	Cytb	C-mos	ND4
Pareas_atayal	KJ642116	KJ642198	-
Pareas_carinatus	JF827676	JF827701	JF827652
Pareas_chinensis	MW111480	MW111509	-
Pareas_chinensis	MW111481	MW111510	-
Pareas_chinensis	JF827690	JF827716	JF827667
Pareas_nuchalis	-	-	U49311
Pareas_formosensis	KJ642130	KJ642201	-
Pareas_monticola	JF827689	JF827715	JF827666
Pareas_monticola	MW111482	MW111511	-
Pareas_hamptoni	KJ642153	KJ642205	-
Pareas_iwasakii	KJ642156	KJ642207	-
Pareas_komaii	KJ642182	KJ642210	-
Pareas_macularius	MW111483	MW111512	-
Pareas_margaritophorus	MW111484	MW111513	-
Pareas_stanleyi	JN230704	JN230703	JN230705
Aplopeltura_boa	JF827673	JF827696	JF827650
Asthenodipsas_tropidonotus	AY425808	-	-
Asthenodipsas_vertebralis	AY425807	-	-
Asthenodipsas_malaccanus	KX660469	KX660336	KX660597
Asthenodipsas_laevis	KX660468	KX660335	KX660596
Outgroup			
Gloydus_blomhoffi	JF827674	JF827697	JF827651
Lycodon_rufozonatum	JF827672	JF827695	JF827649
Eryx_miliaris	U69824	AF544683	AF302942
Boa_constrictor	AB177354	AF471115	AB177354
Psammophis_lineatus	DQ486428	FJ404256	EU526861
Compsophis_albiventris	AY188011	AY187972	FJ404351
Sistrurus_catenatus	AY223610	JN090134	AF156575
Crotalus_atrox	AY223608	JN090135	DQ679856
Achalinus_meiguensis	FJ424614	-	FJ424614
Acrochordus_granulatus	AB177879	AF471124	AB177879
Acrochordus_javanicus	-	HM234058	HM234055
Anilius_scytale	NC_014343	AF544722	NC_014343
Cylindrophis_ruffus	AB179619	AF471133	AB179619
Cantoria_violacea	EF395897	EF395922	-
Cerberus_rynchops	EF395901	EF395926	U49327
Loxocemus_bicolor	AY099993	AY099969	-
Broghammerus_reticulatus	U69860	AF039472	-
Xenopeltis_unicolor	NC_007402	DQ465561	NC_007402
Indotyphlops_braminus	NC_010196	AY099980	NC_010196
Thamnophis_sirtalis	L33290	DQ902094	AY136243

Thermophis_zhaoermii	GQ166168	KP777529	GQ166168
Naja_naja	DQ272477	AF435020	DQ897690
Naja_haje	AY611994	AY611903	GQ359585

Scincidae

Species	12s	16s	ND2	ND4	Cytb
Ablepharus_pannonicus	-	-	AY607280	-	-
Acontias_meleagris	AY169563	HQ180038	AY662553	AY169637	FJ972224
Amphiglossus_reticulatus	AY315490	AY315539	-	-	AY391172
Anomalopus_swasoni	AY169576	AY169613	-	AY169651	-
Asymblepharus_alaicus	-	-	AY607281	-	-
Asymblepharus_nyingchiensis	-	-	MW111452	-	-
Asymblepharus_sp	-	-	MW111453	-	-
Asymblepharus_sikimmensis	-	-	AY662549	-	-
Asymblepharus_medogensis	-	-	MW111454	-	-
Brachymeles_bicolor	AY818761	-	-	-	FJ972227
Brachymeles_bonitae	-	-	JN981990	-	-
Brachymeles_gracilis	AY649103	AY649143	-	-	-
Brachymeles_miriamae	-	-	HQ907436	-	-
Brachymeles_talinis	AY649104	AY649144	-	-	-
Calyptotis_scutirostrum	AY169577	AY308181	AF373265	AY169652	AF373235
Carlia_fusca	AY308331	AY308182	-	FJ379453	-
Chalcides_ocellatus	FJ980091	AY649147	AY662557	-	FJ972228
Chalcides_sexlineatus	AF054532	AF054547	-	-	AF054561
Chalcides_viridanus	AF232630	EU278036	-	-	AF054566
Ctenotus_labillardieri	-	-	-	EU109213	GQ241602
Dasia_grisea	AB028773	AB028784	-	JF498460	-
Dasia_olivacea	AB028772	AB028783	-	-	-
Dasia_vittata	AB028771	AB028782	-	-	-
Egernia_stokesii	-	-	-	JF813095	-
Emoia_atrocostata	JF497856	JF497979	-	JF498461	-
Emoia_caeruleocauda	AY218012	AY217962	JF498109	JF498462	U20454
Emoia_cyanura	AY218018	AY308191	DQ675263	JF498464	U49345
Eugongylus_rufescens	AY169567	AY649152	DQ675253	AY169642	AY217807
Eulamprus_kosciuskoi	DQ915292	DQ915316	-	DQ915340	-
Eulamprus_quoyii	AY169585	AY169622	-	AY169660	-
Eumeces_schneideri	AY315506	AY308213	-	-	-
Eurylepis_taeniolata	-	-	-	-	HM921206
Eutropis_allapallensis	JQ767975	JQ767959	-	-	-
Eutropis_beddomei	JQ767970	JQ767965	-	-	-
Eutropis_bibronii	JQ767979	JQ767963	-	-	-
Eutropis_carinata	JQ767968	JQ767954	-	-	-
Eutropis_clivicola	JQ767978	JQ767956	-	-	-
Eutropis_cumingi	DQ239218	DQ238896	-	-	DQ239137
Eutropis_dissimilis	AY159046	AY159075	-	-	-
Eutropis_indeprensa	AY159047	AY159076	-	-	-
Eutropis_longicaudata	AY070341	AY070359	-	AY169645	DQ239139

<i>Eutropis macrophthalma</i>	AY159048	AY159077	-	-	-
<i>Eutropis macularia</i>	AF153557	AF153573	-	AF228556	AF153590
<i>Eutropis madaraszii</i>	AY159051	AY159080	-	-	-
<i>Eutropis multicarinata</i>	AY159052	AY159081	-	-	-
<i>Eutropis multifasciata</i>	AY159054	AF153576	JF498112	JF498466	AY151513
<i>Eutropis nagarjunensis</i>	JQ767972	JQ767952	-	-	-
<i>Eutropis quadricarinata</i>	AY159060	AY159089	-	-	-
<i>Eutropis rudis</i>	AB028779	AB028790	-	-	DQ239135
<i>Eutropis rugifera</i>	JQ767980	JQ767962	-	-	-
<i>Eutropis trivittata</i>	JQ767971	JQ767951	-	-	-
<i>Eutropis tyleri</i>	AY159045	AY159074	-	-	-
<i>Feylinia polylepis</i>	AY649120	AY649161	AY662556	-	FJ972225
<i>Hemiergis peronii</i>	HM852467	HM852495	-	AY169665	-
<i>Heremites auratus</i>	-	-	U71330	-	AY151507
<i>Heremites vittatus</i>	EU477288	-	-	-	EU443142
<i>Insulasaurus arborens</i>	JF497863	JF497986	JF498113	JF498467	-
<i>Insulasaurus victoria</i>	-	JF497989	JF498117	-	-
<i>Insulasaurus wrighti</i>	JF497867	JF497990	JF498119	JF498471	-
<i>Isopachys anguinoides</i>	AB028803	AB028815	-	-	-
<i>Lamprolepis smaragdina</i>	AB028774	AY169605	-	AY169643	AY217803
<i>Larutia seribuatensis</i>	-	-	HQ907429	-	-
<i>Leptosiaphos vigintiserierum</i>	AY308409	AY308259	-	-	-
<i>Lerista neander</i>	EF672796	EF672867	-	EF673008	-
<i>Lipinia noctua</i>	JF497868	JF497992	JF498120	JF498473	-
<i>Lipinia pulchella</i>	JF497869	JF497994	JF498121	JF498475	-
<i>Lipinia vittigera</i>	AB028804	AB028816	-	-	-
<i>Lygisaurus novaeguineae</i>	AY218014	AY217964	-	AJ290523	AY217810
<i>Lygosoma albopunctata</i>	AY308414	AY308262	-	-	-
<i>Lygosoma bowringii</i>	AB028775	AY308263	HQ907430	-	-
<i>Lygosoma koratense</i>	AB028805	AY308269	-	-	-
<i>Lygosoma lineolatum</i>	AY308422	AY308271	-	-	-
<i>Lygosoma punctata</i>	-	-	DQ675265	-	-
<i>Lygosoma quadrupes</i>	AB028806	AB028818	HQ907432	-	-
<i>Mabuya mabouya</i>	EU477265	AY070357	JF498123	-	EU443115
<i>Madascincus melanopleura</i>	AY315481	AY802764	-	-	AY802770
<i>Mesoscincus schwartzei</i>	AY649117	AY649158	-	-	-
<i>Nannoscincus mariei</i>	-	EU567924	EU423132	EU423130	EU567832
<i>Oligosoma aeneum</i>	AF194088	EU567866	EF567164	EU567745	EU567771
<i>Oligosoma lichenigera</i>	EU567966	EU567870	EU567704	EU567763	EU567829
<i>Ophiomorus punctatissimus</i>	AY649127	AY649168	AY607279	-	EF581258
<i>Otosaurus cumingi</i>	JF497873	JF497998	JF498126	JF498477	-
<i>Papuascincus stanleyanus</i>	JF497877	JF498000	JF498128	JF498479	-
<i>Parvoscincus steerei</i>	JF497904	JF498032	JF498160	JF498510	-
<i>Parvoscincus tagapayo</i>	JF497918	JF498046	JF498174	JF498520	-

Plestiodon_barbouri	EU202957	DQ173534	-	-	EU203041
Plestiodon_capito	-	-	-	-	-
Plestiodon_chinensis	JN117724	-	-	-	-
Plestiodon_egregius	AB016606	AB016606	NC_000888	NC_000888	AB016606
Plestiodon_elegans	JN117723	AY649153	-	-	EU203036
Plestiodon_fasciatus	AY308349	AY308200	-	JF498546	DQ241639
Plestiodon_japonicus	EU202993	EU203034	-	-	EU203143
Plestiodon_kishinouyei	-	-	-	-	-
Plestiodon_laticeps	AY218039	AY308205	-	-	EU116510
Plestiodon_latiscutatus	AY308355	AY308206	-	-	EU203035
Plestiodon_marginatus	EU202955	EU202996	-	-	EU203038
Plestiodon_quadrilineatus	JF497945	JF498073	-	JF498547	-
Plestiodon_skiltonianus	AY308364	AY308215	AY662551	-	-
Plestiodon_stimpsonii	AB543279	EU202997	-	-	EU203039
Plestiodon_tamdaoensis	-	-	-	-	-
Plestiodon_tunganus	-	-	-	-	-
Ristella_rurkii	AY308443	AY308292	-	-	-
Scelotes_mirus	AY649130	AY028893	-	AF228558	AY217828
Scincella_assata	JF497946	JF498074	JF498186	JF498548	-
Scincella_cherriei	AB057377	AB057392	-	JF498550	GQ450315
Scincella_doriae	-	-	MW111451	-	-
Scincella_huanrenensis	-	-	KU507306	-	-
Scincella_lateralis	AY169598	HM852503	JF498187	AY169673	AY217806
Scincella_potanini	-	-	AY607287	-	-
Scincella_reevesii	JF497949	AY308299	-	JF498551	-
Scincella_rupicola	-	-	AY607284	-	-
Scincella_tsinlingensis	-	-	AY607286	-	-
Scincella_vandenburghi	-	-	KU646826	-	-
Scincus_mitranus	AY649133	AY308303	-	-	AF280131
Sphenomorphus_acutus	JF497950	JF498079	JF498188	JF498552	-
Sphenomorphus_buenloicus	-	HM773218	-	-	-
Sphenomorphus_concinnatus	JF497951	JF498080	JF498190	JF498554	-
Sphenomorphus_cranei	JF497952	JF498082	JF498192	JF498556	-
Sphenomorphus_cyanoaemus	JF497954	JF498084	JF498193	JF498557	-
Sphenomorphus_diwata	JF497956	JF498086	JF498194	JF498558	-
Sphenomorphus_fasciatus	JF497958	JF498088	DQ675240	JF498560	AF373234
Sphenomorphus_indicus	AB028808	AB028820	JF498198	JF498562	-
Sphenomorphus_jobiensis	DQ915291	AY308306	DQ675258	DQ915339	AF151648
Sphenomorphus_leptofasciatus	-	-	AF373263	-	AF373233
Sphenomorphus_maculatus	AY308461	AY308310	JF498199	JF498563	-
Sphenomorphus_maculatus	MW026138	MW024860	MW111450	-	-
Sphenomorphus_maindroni	AY308462	AY308311	-	-	-
Sphenomorphus_melanopogon	AY308463	AY308312	-	-	-
Sphenomorphus_muelleri	AY169599	AY169636	-	AY169674	-

<i>Sphenomorphus_multisquamatus</i>	JF497961	JF498091	JF498200	JF498564	-
<i>Sphenomorphus_praesignis</i>	AB028810	AB028822	-	-	-
<i>Sphenomorphus_sabanus</i>	AY308465	AY308314	JF498201	JF498565	-
<i>Sphenomorphus_scutatus</i>	JF497963	JF498093	JF498202	JF498566	-
<i>Sphenomorphus_simus</i>	AY218017	AY217967	-	-	EU116518
<i>Sphenomorphus_solomonis</i>	DQ915304	AY308316	JF498204	DQ915352	-
<i>Sphenomorphus_stellatus</i>	-	HM773221	-	-	-
<i>Sphenomorphus_variegatus</i>	JF497966	JF498096	JF498206	JF498569	-
<i>Tiliqua_scincoides</i>	AF090187	-	DQ675249	-	-
<i>Trachylepis_perrotetii</i>	DQ239223	AY159114	JF498207	AY169646	DQ239145
<i>Tribolonotus_novaeguineae</i>	AY308472	AY308321	HM229445	-	HM229523
<i>Tropidophorus_baconi</i>	AB222937	AB222953	-	-	-
<i>Tropidophorus_baviensis</i>	AB222942	AB222958	-	-	-
<i>Tropidophorus_beccarii</i>	AB222935	AB222951	-	-	-
<i>Tropidophorus_berdmorei</i>	AB028811	AB028823	-	-	-
<i>Tropidophorus_brookei</i>	AB222933	AB222949	DQ675192	-	-
<i>Tropidophorus_cocincinensis</i>	AB222943	AY308323	-	-	-
<i>Tropidophorus_grayi</i>	AB222941	AB222957	-	-	-
<i>Tropidophorus_hainanus</i>	AB222944	AB222960	-	-	-
<i>Tropidophorus_latiscutatus</i>	AB222934	AB222950	-	-	-
<i>Tropidophorus_matsuii</i>	AB222936	AB222952	-	-	-
<i>Tropidophorus_microlepis</i>	AB222947	AB222963	-	-	-
<i>Tropidophorus_misaminius</i>	AB222948	AB222964	-	-	-
<i>Tropidophorus_murphyi</i>	AB222945	AB222961	-	-	-
<i>Tropidophorus_partelloi</i>	AB222946	AB222962	-	-	-
<i>Tropidophorus_robinsoni</i>	AB222939	AB222955	-	-	-
<i>Tropidophorus_sinicus</i>	AB222938	AB222954	-	-	-
<i>Tropidophorus_thai</i>	AB222940	AB222956	-	-	-
<i>Typhlosaurus_lomiaae</i>	DQ249020	HQ180022	AY662554	-	DQ249097
<i>Tytthoscincus_aesculeticola</i>	JF497970	JF498100	JF498208	JF498570	-
<i>Tytthoscincus_atrigularis</i>	JF497972	JF498102	JF498210	JF498572	-
<i>Tytthoscincus_hallieri</i>	JF497973	JF498104	JF498212	JF498574	-
<i>Tytthoscincus_parvus</i>	JF497974	JF498106	JF498214	JF498576	-
Outgroup					
<i>Xantusia_bezyi</i>	AY140984	AY140993	EU130270	AY584432	EU116615
<i>Xantusia_vigilis</i>	DQ249024	DQ249035	EU130279	AY584459	EU116656
<i>Lepidophyma_flavimaculatum</i>	NC_008775	DQ249036	NC_008775	AB162908	EU116546
<i>Broadleysaurus_major</i>	AJ416921	AJ416922	AY167396	-	DQ090881
<i>Cordylosaurus_subtessellatus</i>	AY218001	AY217951	AY167393	-	AY217797
<i>Zonosaurus_ornatus</i>	AJ416929	AJ416930	-	-	DQ004409
<i>Smaug_warreni</i>	HQ167133	HQ167244	NC_005962	AB079613	DQ249103
<i>Namazonurus_namaquensis</i>	HQ167104	HQ167215	-	-	EU116507
<i>Cordylus_tropidosternum</i>	HQ167125	HQ167236	-	-	DQ090880
<i>Carphodactylus_laevis</i>	AF090175	GU460142	AY369017	-	AF109565

<i>Delma borea</i>	-	AY134511	AY134583	-	-
<i>Oedura tryoni</i>	AF090179	AY583929	EF532898	JQ398487	AY583956
<i>Coleonyx variegatus</i>	AB114446	AY140999	AB114446	NC_008774	EU116505
<i>Gonatodes albogularis</i>	GU139932	EF564024	JX041354	-	-
<i>Phyllodactylus nocticolus</i>	FJ662583	FJ662583	JX041409	FJ662561	-
<i>Gekko gecko</i>	HM370130	HM370130	AY282753	AY282753	NC_007627
<i>Hemidactylus brookii</i>	HM595685	HM040938	EU268375	EU268438	GQ375294
<i>Uroplatus phantasticus</i>	EU596664	GU129013	EF490800	JN038120	EF490773
<i>Paroedura androyensis</i>	GU128974	GU129000	EF490774	EF536218	EF490748
<i>Dibamus novaeguineae</i>	-	-	FJ195390	FJ195390	EU116508
Species	C-mos	BDNF	R35	RAG1	
<i>Ablepharus pannonicus</i>	AF039466	-	-	-	
<i>Acontias meleagris</i>	AY662572	GU457870	HQ876348	AY662639	
<i>Amphiglossus reticulatus</i>	FJ667670	FJ667641	-	-	
<i>Anomalopus swansoni</i>	HQ655196	HQ655159	-	-	
<i>Asymblepharus alaicus</i>	-	-	-	-	
<i>Asymblepharus nyingchiensis</i>	-	-	-	-	
<i>Asymblepharus sp</i>	-	-	-	-	
<i>Asymblepharus sikimmensis</i>	-	-	-	AY662631	
<i>Asymblepharus medogensis</i>	-	-	-	-	
<i>Brachymeles bicolor</i>	AY818797	HQ907281	HQ907689	-	
<i>Brachymeles bonitae</i>	-	HQ907250	HM161057	HM161152	
<i>Brachymeles gracilis</i>	-	HQ907295	JN568499	JN654856	
<i>Brachymeles miriamae</i>	-	HQ907236	HQ907643	-	
<i>Brachymeles talinis</i>	-	HQ907266	HQ907674	-	
<i>Calyptotis scutirostrum</i>	-	-	-	-	
<i>Carlia fusca</i>	-	-	-	-	
<i>Chalcides ocellatus</i>	AY818798	HM160584	HM161058	AY662638	
<i>Chalcides sexlineatus</i>	-	JQ073128	-	JQ073251	
<i>Chalcides viridanus</i>	-	JQ073129	-	JQ073252	
<i>Ctenotus Jabillardieri</i>	-	-	-	-	
<i>Dasia grisea</i>	-	HQ907226	HQ907631	-	
<i>Dasia olivacea</i>	-	-	-	-	
<i>Dasia vittata</i>	DQ675393	-	-	DQ675338	
<i>Egernia stokesii</i>	HQ655203	HQ655166	-	-	
<i>Emoia atrocostata</i>	-	HQ907222	HQ907627	-	
<i>Emoia caeruleocauda</i>	AY217859	HM160585	HM161059	HM161154	
<i>Emoia cyanura</i>	AY217865	-	JF498338	DQ675343	
<i>Eugongylus rufescens</i>	AY818779	JN654799	JN568485	JN654859	
<i>Eulamprus kosciuskoi</i>	-	-	-	-	
<i>Eulamprus quoyii</i>	-	-	-	-	
<i>Eumeces schneideri</i>	-	HM160586	HM161060	HM161155	
<i>Eurylepis taeniolata</i>	-	HM160587	HM161061	HM161156	
<i>Eutropis allapallensis</i>	JQ767942	-	-	-	

Eutropis_beddomei	JQ767946	-	-	-
Eutropis_bibronii	JQ767947	-	-	-
Eutropis_carinata	JQ767941	-	-	-
Eutropis_clivicola	JQ767945	-	-	-
Eutropis_cumingi	DQ238977	-	-	-
Eutropis_dissimilis	-	-	-	-
Eutropis_indepressa	-	-	-	-
Eutropis_longicaudata	EU366457	-	-	-
Eutropis_macrophthalma	-	-	-	-
Eutropis_macularia	DQ238976	-	-	-
Eutropis_madaraszi	-	-	-	-
Eutropis_multicarinata	DQ675394	-	-	DQ675339
Eutropis_multifasciata	DQ238978	-	JF498340	AY444055
Eutropis_nagarjunensis	JQ767949	-	-	-
Eutropis_quadricarinata	-	-	-	-
Eutropis_rudis	DQ238975	-	-	-
Eutropis_rugifera	-	-	-	-
Eutropis_trivittata	JQ767948	-	-	-
Eutropis_tytleri	-	-	-	-
Feylinia_polylepis	AY662571	GU457871	JN568493	AY662637
Hemiergis_peronii	HQ655206	HQ655171	-	-
Heremites_auratus	-	-	-	AY662629
Heremites_vittatus	-	-	-	-
Insulasaurus_arborens	-	-	JF498341	-
Insulasaurus_victoria	-	-	JF498345	-
Insulasaurus_wrighti	-	-	JF498347	-
Isopachys_anguinoides	-	-	-	-
Lamprolepis_smaragdina	AY217854	HQ655172	HQ907626	-
Larutia_seribuatensis	-	HQ907229	HQ907636	-
Leptosiaphos_vigintiserierum	EU164504	-	-	-
Lerista_neander	HQ655208	HQ655173	-	-
Lipinia_noctua	AF039465	HQ655175	JF498348	-
Lipinia_pulchella	-	HQ907220	HQ907625	-
Lipinia_vittigera	-	-	-	-
Lygisaurus_novaeguineae	AY217861	-	-	-
Lygosoma_albopunctata	-	-	-	-
Lygosoma_bowringii	HQ655212	HQ655177	HQ907637	-
Lygosoma_koratense	-	-	-	-
Lygosoma_lineolatum	-	-	-	-
Lygosoma_punctata	-	-	-	DQ675345
Lygosoma_quadupes	-	HQ907232	HQ907639	-
Mabuya_mabouya	-	-	JF498350	-
Madascincus_melanopleura	AY802768	HM160578	HM161052	HM161147
Mesoscincus_schwartzei	-	HM160593	HM161067	HM161162

Nannoscincus_mariei	DQ675372	-	-	EU568021
Oligosoma_aeneum	DQ675384	-	-	EU568058
Oligosoma_lichenigera	DQ675385	-	-	EU568108
Ophiomorus_punctatissimus	-	HM160594	HM161068	HM161163
Otosaurus_cumingi	-	-	JF498353	-
Papuascincus_stanleyanus	-	-	JF498355	-
Parvoscincus_steerei	-	-	JF498400	-
Parvoscincus_tagapayo	-	-	JF498402	-
Plestiodon_barbouri	-	HM160605	HM161079	HM161174
Plestiodon_capito	-	HM160608	HM161082	HM161177
Plestiodon_chinensis	-	HM160610	HM161084	HM161179
Plestiodon_egregius	-	HM160618	HM161092	HM161187
Plestiodon_elegans	-	HM160621	HM161095	HM161190
Plestiodon_fasciatus	AY217869	HQ876228	HQ876347	HQ876444
Plestiodon_japonicus	-	HM160629	HM161103	HM161198
Plestiodon_kishinouyei	-	HM160631	HM161105	HM161200
Plestiodon_laticeps	EU116681	EU108357	HM161107	EU108531
Plestiodon_laticutatus	-	HM160635	HM161109	HM161204
Plestiodon_marginatus	-	HM160640	HM161114	HM161209
Plestiodon_quadrilineatus	-	HQ907223	HM161125	HM161221
Plestiodon_skiltonianus	AF315396	HM160658	HM161131	AY662633
Plestiodon_stimpsonii	-	HM160660	HM161133	HM161229
Plestiodon_tamdaoensis	-	HM160663	HM161136	HM161232
Plestiodon_tunganus	-	HM160666	HM161139	HM161235
Ristella_rurkii	-	-	-	-
Scelotes_mirus	AY217879	JQ073075	-	JQ073196
Scincella_assata	-	-	JF498428	-
Scincella_cherriei	-	-	JF498429	-
Scincella_doriae	-	-	-	-
Scincella_huanrenensis	-	-	-	-
Scincella_lateralis	AY217857	HQ655188	HM161140	HM161236
Scincella_potanini	-	-	-	-
Scincella_reevesii	HQ655222	HQ655189	HQ907634	-
Scincella_rupicola	-	-	-	-
Scincella_tsinlingensis	-	-	-	-
Scincella_vandenburghi	-	-	-	-
Scincus_mitranus	AY818806	-	-	-
Sphenomorphus_acutus	-	-	JF498431	-
Sphenomorphus_buenloicus	-	-	-	-
Sphenomorphus_concinnatus	-	-	JF498432	-
Sphenomorphus_cranei	-	-	JF498434	-
Sphenomorphus_cyanolaemus	-	-	JF498436	-
Sphenomorphus_diwata	-	-	JF498438	-
Sphenomorphus_fasciatus	DQ675380	-	JF498440	DQ675320

Sphenomorphus_indicus	-	-	JF498441	-
Sphenomorphus_jobiensis	DQ675395	HQ655190	-	-
Sphenomorphus_leptofasciatus	AF039464	-	-	-
Sphenomorphus_maculatus	-	-	JF498442	-
Sphenomorphus_maculatus	-	-	-	-
Sphenomorphus_maindroni	-	-	-	-
Sphenomorphus_melanopogon	-	-	-	-
Sphenomorphus_muelleri	-	-	-	-
Sphenomorphus_multisquamatus	-	-	JF498443	-
Sphenomorphus_praesignis	-	-	-	-
Sphenomorphus_sabanus	-	-	JF498444	-
Sphenomorphus_scutatus	-	-	JF498445	-
Sphenomorphus_simus	EU116688	EU108365	-	EU108539
Sphenomorphus_solomonis	HQ655224	HQ655191	JN568487	JN654864
Sphenomorphus_stellatus	-	-	-	-
Sphenomorphus_variegatus	-	-	JF498448	-
Tiliqua_scincoides	AF039462	JN654804	JN568504	JN654866
Trachylepis_perrotetii	DQ238986	HM160591	HM161065	HM161160
Tribolonotus_novaeguineae	HM229567	-	-	-
Tropidophorus_baconi	-	-	-	-
Tropidophorus_baviensis	-	-	-	-
Tropidophorus_beccarii	-	-	-	-
Tropidophorus_berdmorei	-	-	-	-
Tropidophorus_brookei	DQ675397	-	-	-
Tropidophorus_cocincinensis	-	-	-	-
Tropidophorus_grayi	-	-	-	-
Tropidophorus_hainanus	-	-	-	-
Tropidophorus_latiscutatus	-	-	-	-
Tropidophorus_matsuii	-	-	-	-
Tropidophorus_microlepis	-	-	-	-
Tropidophorus_misaminius	-	-	-	-
Tropidophorus_murphyi	-	-	-	-
Tropidophorus_partelloi	-	-	-	-
Tropidophorus_robinsoni	-	-	-	-
Tropidophorus_sinicus	-	-	-	-
Tropidophorus_thai	-	-	-	-
Typhlosaurus_lomiaae	DQ249065	-	-	DQ249129
Tytthoscincus_aesculeticola	-	-	JF498452	-
Tytthoscincus_atrigularis	-	-	JF498454	-
Tytthoscincus_hallieri	-	-	JF498455	-
Tytthoscincus_parvus	-	-	JF498456	-
Outgroup				
Xantusia_bezyi	EU116786	EU108462	-	EU108636
Xantusia_vigilis	EU116835	EU108491	HQ876351	AY662642

Lepidophyma_flavimaculatum	EU116715	GU457873	HQ876350	GU457995
Broadleysaurus_major	DQ100149	HM160588	HM161062	HM161157
Cordylosaurus_subtessellatus	AY217849	HQ876225	HQ876344	HQ876441
Zonosaurus_ornatus	DQ100120	JN654807	JN568497	JN614040
Smaug_warreni	DQ249072	-	-	-
Namazonurus_namaquensis	AY217848	AY987981	-	EU108528
Cordylus_tropidosternum	DQ100148	-	-	-
Carphodactylus_laevis	EF534905	-	-	EF534781
Delma_borea	AY134547	GU457867	HQ876381	GU457990
Oedura_tryoni	AF090848	-	-	JQ173758
Coleonyx_variegatus	EF534901	EU108352	HQ876371	HQ876448
Gonatodes_albogularis	EF564078	GU457866	HQ876380	EF534797
Phyllodactylus_nocticolus	FJ662518	FJ662489	-	HQ426311
Gekko_gecko	EU366455	EU402614	HQ876378	AY662625
Hemidactylus_brookii	AY863049	HM180358	-	GQ375314
Uroplatus_phantasticus	HQ426592	EU596897	-	EF490747
Paroedura_androyensis	HQ256721	-	-	EF490721
Dibamus_novaeguineae	EF450999	EU108355	DQ119613	GU457986

Gekkonidae

Species	ND2	RAG1	PDC
<i>Alsophylax pipiens</i>	KC151973	KC152020	KC151995
<i>Altiphylax medogensis</i>	MW111448	MW111362	MW111427
<i>Altiphylax medogensis</i>	MW111449	MW111363	MW111428
<i>Altiphylax stolickzai</i>	KJ794404	KJ794381	KJ794394
<i>Altiphylax levitoni</i>	KC151974	KC152022	KC151997
<i>Calodactylodes illingworthorum</i>	JX041318	JQ945288	JQ945356
<i>Chondrodactylus fitsimensis</i>	JN393945	EU293645	EU293712
<i>Crossobamon orientalis</i>	KC151975	KC152023	KC151998
<i>Cyrtodactylus adleri</i>	-	-	KM255168
<i>Cyrtodactylus angularis</i>	JX440523	JQ945301	JX440632
<i>Cyrtodactylus annandalei</i>	JX440524	JX440683	JX440633
<i>Cyrtodactylus ayeyarwadyensis</i>	JX440526	JX440685	JX440634
<i>Cyrtodactylus battalensis</i>	KC151983	KC152035	KC152007
<i>Cyrtodactylus bintangtinggi</i>	JX519494	-	-
<i>Cyrtodactylus brevidactylus</i>	JX440527	JX440687	JX440636
<i>Cyrtodactylus cayuensis</i>	MW111436	MW111364	MW111421
<i>Cyrtodactylus cayuensis</i>	MW111437	MW111365	MW111422
<i>Cyrtodactylus collegalis</i>	-	KC735087	KC735092
<i>Cyrtodactylus chanhomeae</i>	JX440529	JX440688	JX440637
<i>Cyrtodactylus chrysopylos</i>	JX440531	JX440690	JX440639
<i>Cyrtodactylus deccanensis</i>	JX440521	JX440681	JX440630
<i>Cyrtodactylus elok</i>	JQ889180	JX440694	JX440643
<i>Cyrtodactylus fasciolatus</i>	KM255184	KM255120	KM255143
<i>Cyrtodactylus feae</i>	JX440536	JX440696	JX440645
<i>Cyrtodactylus gansi</i>	JX440537	JX440697	JX440646
<i>Cyrtodactylus gubernatoris</i>	KM255204	KM255123	KM255147
<i>Cyrtodactylus himalayanus</i>	KM255173	KM255124	KM255149
<i>Cyrtodactylus hontreensis</i>	JX440539	JX440699	-
<i>Cyrtodactylus interdigitalis</i>	JQ889181	JX440700	JX440648
<i>Cyrtodactylus intermedius</i>	JQ889182	JX440701	JX440649
<i>Cyrtodactylus jarujini</i>	JX440541	JQ945303	JX440651
<i>Cyrtodactylus jellesmae</i>	JX440542	JX440702	JX440652
<i>Cyrtodactylus khasiensis</i>	KM255188	KM255127	KM255152
<i>Cyrtodactylus lawderanus</i>	KM255189	KM255128	KM255153
<i>Cyrtodactylus loriae</i>	EU268350	EU268289	EU268319
<i>Cyrtodactylus novaeguineae</i>	JX440547	HQ426274	HQ426185
<i>Cyrtodactylus paradoxus</i>	JX440549	JX440709	JX440659
<i>Cyrtodactylus peguensis</i>	GU550727	-	-
<i>Cyrtodactylus philippinus</i>	JX440550	JQ945304	JX440660
<i>Cyrtodactylus pulchellus</i>	JX440552	JX440711	JX440662
<i>Cyrtodactylus quadrivirgatus</i>	JX440553	JX440712	JX440663

<i>Cyrtodactylus_rubidus</i>	KM255203	-	-
<i>Cyrtodactylus_russelli</i>	JX440555	-	-
<i>Cyrtodactylus_sadlieri</i>	JQ820309	-	-
<i>Cyrtodactylus_semenanjungensis</i>	JQ889177	JX440716	JX440666
<i>Cyrtodactylus_sermowaiensis</i>	JX440558	JX440718	JX440668
<i>Cyrtodactylus_slowinskii</i>	JX440559	JX440719	-
<i>Cyrtodactylus_sp_Timor</i>	JX440560	JX440720	JX440669
<i>Cyrtodactylus_tibetanus</i>	MW111438	MW111366	MW111423
<i>Cyrtodactylus_tibetanus</i>	MW111439	-	MW111424
<i>Cyrtodactylus_tigroides</i>	JX440562	JX440723	JX440671
<i>Cyrtodactylus_tiomanensis</i>	JX440563	JX440724	JX440672
<i>Cyrtodactylus_triedra</i>	JX440522	JX440682	JX440631
<i>Cyrtodactylus_zhaoermii</i>	MW111440	MW111367	MW111425
<i>Cyrtodactylus_zhaoermii</i>	MW111441	MW111368	MW111426
<i>Cyrtodactylus_sp_CHNG</i>	KM255179	-	-
<i>Cyrtodactylus_septentrionalis</i>	-	KM255133	KM255158
<i>Cyrtodactylus_chamba</i>	KM255191	KM255134	KM255159
<i>Cyrtodactylus_sp._Glow</i>	KM255193	-	-
<i>Cyrtodactylus_guwahatiensis</i>	KM255194	KM255135	KM255160
<i>Cyrtodactylus_jaintiaensis</i>	KM255195	-	-
<i>Cyrtodactylus_sp._KHELLONG</i>	KM255196	-	-
<i>Cyrtodactylus_kazirangaensis</i>	KM255170	KM255136	KM255161
<i>Cyrtodactylus_sp._Mizoram</i>	KM255197	-	-
<i>Cyrtodactylus_nagalandensis</i>	KM255199	KM255137	KM255162
<i>Cyrtodactylus_montanus</i>	KM255200	KM255138	KM255163
<i>Cyrtodactylus_sp._Sikkim</i>	KM255181	KM255139	KM255165
<i>Cyrtodactylus_tripuraensis</i>	KM255182	KM255141	KM255166
<i>Cyrtodactylus_oldhami</i>	JX440548	JX440707	JX440657
<i>Cyrtopodion'_aravallense</i>	KJ794406	KJ794372	KJ794385
<i>Cyrtopodion_mansarulus</i>	KJ794414	KJ794383	KJ794396
<i>Cyrtopodion_scabrum</i>	JX041345	HQ426275	HQ426186
<i>Dixonius_vietnamensis</i>	EU054297	EU054281	EU054265
<i>Eublepharis_macularius</i>	JX041350	EF534776	EF534816
<i>Gecko_smithi</i>	JN019056	JN019121	JN019090
<i>Gehyra_mutilata</i>	JN019081	JN019145	JN019113
<i>Gekko_gecko</i>	AF114249	EU054272	EU054256
<i>Gekko_monarchus</i>	JN019078	JN019142	JN019110
<i>Gekko_vittatus</i>	JN019072	JN019137	JN019105
<i>Hemidactylus_anamallensis</i>	-	HM622353	HM622368
<i>Hemidactylus_angulatus</i>	HM559620	HM559686	HM559653
<i>Hemidactylus_aquilonius</i>	EU268373	EU268312	EU268342
<i>Hemidactylus_brasilianus</i>	EU268351	EU268290	EU268320
<i>Hemidactylus_brookii</i>	GQ458051	GQ375313	GQ375307
<i>Hemidactylus_craspedotus</i>	HM559618	HM559684	HM559651

Hemidactylus_depressus	HM559625	HM559691	HM559658
Hemidactylus_fasciatus	EU268371	EU268310	EU268340
Hemidactylus_frenatus	GQ458049	GQ375308	GQ375301
Hemidactylus_garnotii	EU268363	EU268302	EU268332
Hemidactylus_karenorum	EU268362	EU268301	EU268331
Hemidactylus_leschenaulti	HM559636	HM559702	HM559669
Hemidactylus_persicus	EU268377	EU268316	EU268346
Hemidactylus_platyurus	HM559619	HM559685	HM559652
Hemidactylus_platyurus	-	MW111369	MW111429
Hemiphyllodactylus_aurantiacus	JN393933	JN393977	JN394011
Hemiphyllodactylus_zayuensis	MW111434	-	-
Hemiphyllodactylus_zayuensis	MW111435	-	-
Hemiphyllodactylus_yunnanensis	JN393949	-	-
Altiphylax_levitoni	KC151974	KC152022	KC151997
Hemidactylus_aaronbaueri	-	HM622352	HM622367
Hemidactylus_bowringii	-	HM622354	HM622369
Hemidactylus_flaviviridis	-	EU268294	EU268324
Hemidactylus_giganteus_2	-	HM622357	HM622372
Hemidactylus_gracilis	-	HM622359	HM622374
Hemidactylus_greeffii	-	EU268308	EU268338
Hemidactylus_haitianus	-	EU268311	EU268341
Hemidactylus_imbricatus	-	EU268292	EU268322
Hemidactylus_mabouia	-	EU268300	EU268330
Hemidactylus_maculatus	-	HM622361	HM622375
Hemidactylus_palaichthus	-	EU268307	EU268337
Hemidactylus_prashadi	-	HM622364	HM622378
Hemidactylus_robustus	-	EU268315	EU268345
Hemidactylus_triedrus	-	HM622365	HM622379
Hemiphyllodactylus_banaensis	KF219783	-	-
Hemiphyllodactylus_bintik	KJ663757	-	-
Hemiphyllodactylus_changningensis	KP732437	-	-
Hemiphyllodactylus_chiangmaiensis	KF219781	-	-
Hemiphyllodactylus_dushanensis	FJ971016	-	-
Hemiphyllodactylus_ganoklonis	JN393950	-	-
Hemiphyllodactylus_harterti	KF219760	-	-
Hemiphyllodactylus_insularis	KF219762	-	-
Hemiphyllodactylus_jinpingensis	FJ971038	-	-
Hemiphyllodactylus_larutensis	KJ663758	-	-
Hemiphyllodactylus_longlingensis	FJ971045	-	-
Hemiphyllodactylus_tehtarik	KF219784	-	-
Hemiphyllodactylus_titiwangsaensis	KF219785	-	-
Hemiphyllodactylus_typus	KF219797	-	-
Homopholis_walbergii	EU054244	EU054220	EU054196
Lepidodactylus_lugubris	JN393944	JX515629	JX515642

<i>Lepidodactylus_orientalis</i>	JN019080	JN019144	JN019112
<i>Lialis_burtonis</i>	-	GU459540	GU459742
<i>Lialis_jicari</i>	AY369025	-	-
<i>Luperosaurus_cumingii</i>	JX515623	JX515637	JX515650
<i>Mediodactylus_russowii</i>	JX440517	JX440678	JX440627
<i>Microgecko_persicus</i>	KJ794409	KJ794375	KJ794388
<i>Nactus_vankampeni</i>	EU054295	EU054279	EU054263
<i>Oedura_marmorata</i>	GU459951	EF534779	EF534819
<i>Phelsuma_inexpectata</i>	JN393939	JN393983	JN394016
<i>Phelsuma_rosagularis</i>	EU423292	HQ426306	HQ426217
Outgroup			
<i>Phyllodactylus_xanti</i>	JN393940	EF534807	EF534849
<i>Ptyodactylus_guttatus</i>	JX041426	EU293636	EU293703
<i>Pygopus_nigriceps</i>	JX440518	EF534783	EF534823
<i>Sphaerodactylus_roosevelti</i>	JN393943	EF534785	EF534825
<i>Sphaerodactylus_torrei</i>	JX440519	EF534788	EF534829
<i>Tenuidactylus_caspicus</i>	KC151988	KC152039	KC152012
<i>Tropicolotes_nubicus</i>	KC151991	KC152042	KC152015
<i>Woodworthia_maculata</i>	GU459852	GU459449	GU459651

Viperidae

Species	12s	16s	Cytb	ND4
Agkistrodon_contortrix	AF259224	AF259117	EU483263	AF156576
Agkistrodon_piscivorus	KX694610	KX694680	DQ523161	DQ523161
Atheris_ceratophora	DQ305410	DQ305433	DQ305456	DQ305474
Atheris_chlorechis	KX694550	KX694618	KX694841	EU624211
Atheris_nitschei	AY223650	AY223663	AF471070	AY223618
Atheris_squamigera	AF544762	EU624279	EU624303	EU624212
Atropoides_picadoi	AF057208	AF057255	AY223583	U41872
Azemiops_feae	KX694579	KX694684	KX694840	AY352808
Bitis_arietans	KX694571	KX694619	KX694845	EU852304
Bitis_gabonica	KX694551	KX694671	KX694846	EU624217
Bitis_nasicornis	DQ305411	DQ305434	DQ305457	DQ305475
Bitis_rubida	EU624251	EU624286	EU624306	EU624219
Bitis_worthingtoni	EU624252	AJ275745	AJ275692	EU624220
Bitis_xeropaga	EU624253	EU624287	EU624307	EU624221
Bothriechis_lateralis	AF057211	AF057258	AY223588	U41873
Bothriechis_nigroviridis	AF057212	AF057259	AY223589	AY223635
Bothriechis_schlegelii	AF057213	AF057260	AY223590	AF292611
Bothrops_ammodytoides	AY223658	AY223671	AY223595	AY223639
Bothrops_asper	AF057218	AF057265	AY223599	U41876
Bothrops_brazili	EU867252	EU867264	AF292597	AF292635
Bothrops_chloromelas	DQ305430	DQ305453	DQ305471	DQ305488
Bothrops_erythromelas	AF057219	AF057266	AY223600	U41877
Bothrops_jararaca	KX694583	EU867266	KX694833	AY122860
Bothrops_pictus	-	-	AF292583	AF292621
Calloselasma_rhodostoma	KX694585	KX694626	AF292569	AY352813
Causus_lichtensteini	KX694560	KX694628	KX694848	-
Causus_resimus	AY223649	AY223662	AY223555	AY223616
Causus_rhombeatus	DQ305409	DQ305432	DQ305455	U41866
Cerastes_cerastes	KX694540	KX694629	AF471028	EU624222
Cerastes_gasperettii	JN870181	AJ275756	AJ275704	-
Cerastes_vipera	-	AJ275757	AJ275705	-
Mixcoatlus_barbouri	HM363639	HM363640	HM363641	HM363642
Cerrophidion_tzotzilorum	JN870182	JN870193	DQ061203	DQ061228
Crotalus_adamanteus	KX694608	KX694635	AF259185	U41880
Crotalus_basiliscus	AF259244	AF259136	AY704845	AY704894
Crotalus_cerastes	AF259235	AF259128	U69773	JN620962
Crotalus_enyo	AF259245	AF259137	-	-
Crotalus_pricei	AF259237	AF259130	-	JN022878
Crotalus_ruber	AF259261	AF259153	-	DQ679838
Crotalus_willardi	KX694609	KX694682	KX694839	JN870209
Daboia_mauritanica	EU624261	EU624295	EU624313	EU624229

Daboia_palaestinae	JN870183	AJ275775	AJ275722	-
Daboia_siamensis	EU913478	NC011391	NC_011391	EU913478
Deinagkistrodon_acutus	KX694593	KX694683	KX694847	AY352811
Echis_borkini	GQ359644	GQ359730	GQ359486	GQ359563
Echis_carinatus	EU852313	EU852319	EU852295	GQ359524
Echis_coloratus	EU852315	EU852321	EU852297	EU624224
Echis_jogeri	GQ359641	GQ359732	GQ359476	GQ359560
Echis_leucogaster	GQ359622	GQ359705	GQ359456	GQ359541
Echis_omanensis	GQ359631	GQ359715	GQ359466	GQ359550
Echis_pyramidum	EU852314	EU852320	EU852296	EU624226
Eristicophis_macmahoni	EU624259	EU624293	AJ275711	EU624227
Garthius_chaseni	AY352791	AY352729	AY352760	AY352825
Gloydus_blomhoffi	AY352780	AY352719	AY352751	AY352814
Gloydus_brevicaudus	AY352781	AY352720	AY352752	AY352815
Gloydus_halys	KY040526	KY040558	KX063802	KX063775
Gloydus_intermedius	KY040524	KY040556	KY040617	KY040638
Gloydus_stejnegeri	KY040536	KY040568	KX063817	KX063790
Gloydus_cognatus	KY040529	KY040561	KY040619	KY040640
Gloydus_liupanensis	EF012814	-	JQ687491	JQ687472
Gloydus_qinglinensis	KY040534	KY040566	KY040623	KY040644
Gloydus_changdaoensis	KY040521	KY040553	KX063821	KX063794
Gloydus_shedaoensis	AF057194	AF057241	AY223566	AY223623
Gloydus_huangi	MK227409	MK227412	MK227415	MK227418
Gloydus_strauchi	KY040543	KY040575	KY040629	KY040650
Gloydus_monticola	KY040550	KY040582	KY040636	JX661243
Gloydus_rubromaculatus	KY040548	KY040580	KY040634	KY040655
Gloydus_angusticep	KY040540	KY040572	KY040626	KY040647
Gloydus_tsushimaensis	JN870186	JN870196	JN870203	JN870211
Gloydus_ussuriensis	AF057193	AF057240	AY223565	AY223622
Hypnale_hypnale	AY352778	AY352717	AY352750	AY352812
Hypnale_nepa	KC347325	KC347362	KC347485	KC347491
Hypnale_zara	KC347326	KC347363	KC347463	KC347513
Lachesis_acrochorda	JN870187	JN870197	JN870204	JN870212
Macrovipera_lebetina	KX694561	KX694652	AJ275713	DQ897729
Macrovipera_schweizeri	EU624262	AJ275768	AJ275715	-
Mixcoatlus_browni	HM363650	HM363651	HM363652	HM363653
Mixcoatlus_melanurus	AF057210	AF057257	AY223587	AY223634
Montivipera_albizona	EU624265	AJ275780	AJ275727	DQ897731
Montivipera_wagneri	JN870188	AJ275778	AJ275725	JN870213
Montivipera_xanthina	EU624268	AJ275777	AJ275724	EU624234
Ophryacus_undulatus	AF057209	AF057256	AY223586	AY223633
Ovophis_monticola	HQ325260	HQ325078	HQ325138	HQ325199
Ovophis_monticola	MW020347	MW020093	MW111485	-
Ovophis_monticola	HQ325306	HQ325119	HQ325179	HQ325241

Ovophis_makazayazaya	HQ325266	HQ325084	HQ325143	HQ325202
Ovophis_makazayazaya	DQ305417	DQ305440	DQ305463	DQ305481
Ovophis_convictus	HQ325264	HQ325082	HQ325129	HQ325190
Ovophis_okinavensis	AF057199	AF057246	AY223573	U41895
Ovophis_tonkinensis	HQ325308	HQ325121	HQ325181	HQ325243
Ovophis_tonkinensis	HQ325255	HQ325073	HQ325133	HQ325194
Ovophis_tonkinensis	HQ325274	HQ325096	HQ325151	HQ325209
Ovophis_zayuensis	HQ325273	HQ325089	HQ325150	HQ325208
Ovophis_zayuensis	MW020348	MW020094	MW111486	MW111430
Ovophis_zayuensis	HQ325304	HQ325118	HQ325177	HQ325239
Porthidium_ophryomegas	AF057205	AF057252	AY223580	U41888
Porthidium_yucatanicum	JN870189	JN870198	DQ061215	DQ061244
Proatheris_superciliaris	EU624263	EU624296	AJ275685	EU624230
Protobothrops_cornutus	AY294276	AY294267	AY294272	AY294262
Protobothrops_dabieshanensis	NC_022473	NC_022473	NC_022473	NC_022473
Protobothrops_elegans	AF057201	AF057248	AY223575	U41893
Protobothrops_flavoviridis	AY352792	AY352730	AY223574	AY352826
Protobothrops_himalayanus	MW133302	MW020036	MW111487	-
Protobothrops_jerdonii	AY763180	AY763199	HM567474	EU810020
Protobothrops_jerdonii	MW133303	MW020037	MW111488	-
Protobothrops_jerdonii	MW133304	MW020038	KF997884	-
Protobothrops_jerdonii	MW020039	MW020039	MW111489	-
Protobothrops_jerdonii	MW133305	MW020040	-	-
Protobothrops_jerdonii	MW133306	MW020041	MW111490	-
Protobothrops_kaulbacki	DQ666056	DQ666055	DQ666060	DQ666057
Protobothrops_mangshanensis	AY352787	AY352726	AY352758	AY352821
Protobothrops_maolanensis	JN799405	JN799398	JN799401	JN799409
Protobothrops_mucrosquamatus	AY223653	AY223666	AY223577	AY223629
Protobothrops_tokarensis	AF057202	AF057249	AY223576	AY223628
Protobothrops_trungkhanhensis	KT220284	KT220303	KT220323	KT220343
Protobothrops_trungkhanhensis	MW133307	MW020042	MW111491	-
Protobothrops_xiangchengensis	AY763188	AY763207	DQ666061	DQ666058
Protobothrops_sieversorum	DQ305414	DQ305437	AY352753	DQ305478
Pseudocerastes_fieldi	EU624264	AJ275769	AJ275716	-
Sistrurus_catenatus	DQ464268	AF259119	AY223610	HQ257759
Sistrurus_miliarius	KX694565	KX694679	EU483385	HQ257760
Trimeresurus_albolabris	AF057195	AF057242	AY223567	U41890
Trimeresurus_andersonii	AY352801	AY352740	-	AY352835
Trimeresurus_popeiorum	AY371753	AY371769	AY371801	AY371837
Trimeresurus_borneensis	AY352783	AY352722	AY352754	AY352817
Trimeresurus_popeiorum	AY371752	AY371778	AY371818	AY371853
Trimeresurus_cantori	AY352802	AY352741	AF171889	AY352836
Trimeresurus_erythrurus	AF517161	AF517174	AF171900	AF517217
Trimeresurus_fasciatus	GQ428492	GQ428466	GQ428475	GQ428482

<i>Trimeresurus_flavomaculatus</i>	AY059535	AY059551	AF171916	AY059584
<i>Trimeresurus_popeiorum</i>	AY059537	AY059553	AY371796	AY059588
<i>Trimeresurus_gracilis</i>	DQ305415	DQ305438	AF171913	AY352823
<i>Trimeresurus_gramineus</i>	AY352793	AY352731	AY352761	AY352827
<i>Trimeresurus_gumprechti</i>	EU443791	EU443792	AY321489	EU443787
<i>Trimeresurus_hageni</i>	AY059536	AY059552	AY059567	AY059585
<i>Trimeresurus_insularis</i>	AY059534	AY352738	AY059568	AY352833
<i>Trimeresurus_kanburiensis</i>	AY289219	AY352737	AY289225	AY289231
<i>Trimeresurus_macrops</i>	AF517163	AF517176	AF517184	AF517219
<i>Trimeresurus_malabaricus</i>	AY059548	AY059564	AY059569	AY059587
<i>Trimeresurus_malcolmi</i>	AY371757	AY371786	AY371832	AY371861
<i>Trimeresurus_mcgregori</i>	AY371756	AY371795	AY371831	AY371858
<i>Trimeresurus_medoensis</i>	AY352797	AY352735	AY352765	AY352831
<i>Trimeresurus_medoensis</i>	MW020335	MW020095	MW111479	-
<i>Trimeresurus_popeiorum</i>	AY371737	AY371774	AY371814	AY371839
<i>Trimeresurus_popeiorum</i>	AY059538	AY059554	AY059571	AY059590
<i>Trimeresurus_puniceus</i>	AF517164	AF517177	AF517192	AF517220
<i>Trimeresurus_purpleomaculatus</i>	AF517162	AF517175	AF517188	AF517218
<i>Trimeresurus_sabahi</i>	AY371736	AY371771	AY371815	AY371842
<i>Trimeresurus_schultzei</i>	AY352785	AY352725	AY352756	AY352819
<i>Trimeresurus_septentrionalis</i>	AY059543	AY352724	AY352755	AY352818
<i>Trimeresurus_sichuanensis</i>	HQ850445	HQ850446	HQ850448	HQ850450
<i>Trimeresurus_stejnegeri</i>	AY059539	AY059555	AF171896	AY059593
<i>Trimeresurus_sumatranus</i>	AY371759	AY371788	AY371828	AY371866
<i>Trimeresurus_tibetanus</i>	AY352776	AY352715	AY352749	AY352810
<i>Trimeresurus_trigonocephalus</i>	AY059549	AY059565	AF171890	AY059597
<i>Trimeresurus_truongsonensis</i>	EU443817	EU443818	EU443815	EU443816
<i>Trimeresurus_venustus</i>	AY293931	AY352723	AF171914	AY293930
<i>Trimeresurus_vogeli</i>	AF517170	AF517183	AY059581	AF517225
<i>Trimeresurus_yunnanensis</i>	EU443813	EU443814	EF597523	EF597527
<i>Tropidolaemus_subannulatus</i>	AF057198	AF057245	AY223571	AY223625
<i>Tropidolaemus_wagleri</i>	AF517167	AF517180	AF517191	AF517223
<i>Vipera_ammodytes</i>	EU624266	EU624297	AM944799	EU624232
<i>Vipera_berus</i>	EU543221	DQ186081	DQ186032	DQ897728
<i>Vipera_eriwanensis</i>	KX694555	KX694672	KX694842	FR727021
<i>Vipera_kaznakovi</i>	-	-	AY321093	FR727034
<i>Vipera_latastei</i>	-	-	AY321094	JX649572
<i>Vipera_lotievi</i>	-	-	JN204717	FR727030
<i>Vipera_renardi</i>	-	-	HQ845740	FR727033
<i>Vipera_seoanei</i>	-	AJ275782	DQ186030	FR727035
<i>Vipera_ursinii</i>	-	-	AY311383	FR726981
Outgroup				
<i>Achalinus_meiguensis</i>	FJ424614	FJ424614	FJ424614	FJ424614
<i>Achalinus_rufescens</i>	KX694570	KX694613	KX694895	U49319

<i>Acrochordus_granulatus</i>	AB177879	NC_007400	NC_007400	NC_007400
<i>Acrochordus_javanicus</i>	KX694587	KX694614	KX694897	HM234055
<i>Ahaetulla_prasina</i>	KX694556	KX694615	-	-
<i>Ahaetulla_pulverulenta</i>	KC347304	-	KC347454	KC347512
<i>Anilius_scytale</i>	FJ755180	-	FJ755180	FJ755180
<i>Antillophis_parvifrons</i>	KX694557	KX694616	KX694883	FJ416814
<i>Aparallactus_modestus</i>	FJ404130	AY611824	AY612007	FJ404332
<i>Aplopeltura_boa</i>	AF544761	AF544787	-	U49312
<i>Aspidelaps_scutatus</i>	KX694563	KX694617	KX694861	AY058969
<i>Atractaspis_corpulenta</i>	Z46597	AY611837	AY612020	FJ404335
<i>Atractaspis_micropholis</i>	AF544740	AY611823	AY612006	FJ404336
<i>Boa_constrictor</i>	NC_007398	NC_007398	AF471036	NC_007398
<i>Boaedon_fuliginosus</i>	AY122681	AY188079	AF471060	HQ207151
<i>Brachyorrhos_albus</i>	KX694569	KX694674	KX694849	-
<i>Brogammerus_reticulatus</i>	Z46448	-	FJ717481	-
<i>Bungarus_fasciatus</i>	NC_011393	NC_011393	EU579523	EU579523
<i>Calabaria_reinhardtii</i>	Z46464	-	AY099985	AF302943
<i>Calamaria_pavimentata</i>	KX694584	KX694624	KX694890	-
<i>Calamaria_yunnanensis</i>	KX694572	KX694625	KX694891	-
<i>Cantoria_violacea</i>	KX694595	KX694627	KX694852	-
<i>Cerberus_rynchops</i>	KX694596	KX694630	KX694850	U49327
<i>Chrysopelea_ornata</i>	KX694558	KX694631	KX694862	KC347496
<i>Coluber_constrictor</i>	KX694604	KX694632	EU180486	AF138746
<i>Compsophis_infralineatus</i>	KX694601	KX694633	EF203990	FJ404359
<i>Coronella_austriaca</i>	KX694589	KX694634	KX694868	AY487065
<i>Cubophis_cantherigerus</i>	AF158405	AF158475	AF544669	FJ416818
<i>Cylindrophis_ruffus</i>	NC_007401	-	NC_007401	NC_007401
<i>Diadophis_punctatus</i>	AY577015	KX694636	EU193843	EU194025
<i>Dipsas_catesbyi</i>	Z46459	KX694637	KX694856	EF078585
<i>Dromicodryas_bernieri</i>	KX694586	KX694638	DQ979987	FJ404353
<i>Drymarchon_corais</i>	HM565758	KX694639	KX694871	DQ902314
<i>Duberria_lutrix</i>	KX694598	KX694640	KX694892	DQ486308
<i>Eirenis_modestus</i>	AY039143	KX694641	KX694864	AY487072
<i>Erpeton_tentaculatus</i>	KX694592	KX694642	KX694851	-
<i>Erythrolamprus_miliaris</i>	KX694588	KX694643	KX694884	-
<i>Eryx_colubrinus</i>	AF544747	-	U69811	-
<i>Eunectes_notaeus</i>	AM236347	-	AM236347	AM236347
<i>Gonionotophis_brussauxi</i>	FJ404156	KX694644	AY612043	FJ404358
<i>Gonionotophis_capensis</i>	AF544769	KX694645	HQ207116	AF544665
<i>Gonyosoma_oxycephalum</i>	AY122678	KX694646	KX694870	DQ902309
<i>Grayia_ornata</i>	AF158434	AF158503	KX694888	AF544663
<i>Heterodon_platirhinus</i>	AY577019	KX694647	KX694857	AF402659
<i>Homalopsis_buccata</i>	KX694597	KX694690	EF395917	-
<i>Homoroselaps_lacteus</i>	KX694590	KX694686	KX694889	AY058976

<i>Imantodes_cenchoa</i>	KX694602	KX694687	KX694858	NC_013988
<i>Ithycyphus_miniatus</i>	KX694576	KX694648	KX694863	-
<i>Lampropeltis_getula</i>	KX694603	KX694649	KX694866	AF138759
<i>Laticauda_colubrina</i>	U96799	EU547138	EU547040	AY058977
<i>Leioheterodon_madagascariensis</i>	KX694599	AY188061	KX694881	FJ404371
<i>Leptodeira_annulata</i>	GQ457806	GQ457746	EF078516	FJ416787
<i>Liophidium_torquatum</i>	KX694577	KX694650	KX694880	-
<i>Loxocemus_bicolor</i>	Z46456	-	AY099993	-
<i>Lycophidion_capense</i>	FJ404178	AY611893	AY612075	FJ404376
<i>Macropisthodon_rudis</i>	KX694559	KX694651	KX694875	U49326
<i>Malpolon_monspessulanus</i>	KX694541	KX694653	KX694879	FJ404320
<i>Micrurus_surinamensis</i>	AF544770	AF544799	EF137415	EF137407
<i>Mimophis_mahafalensis</i>	KX694543	-	KX694877	DQ486202
<i>Naja_atra</i>	KX694544	KX694689	KX694859	EU921898
<i>Natrix_natrix</i>	KX694573	-	KX694876	AY873716
<i>Nerodia_sipedon</i>	KX694606	KX694654	KX694873	-
<i>Ninia_atrata</i>	GQ457814	KX694675	KX694854	GQ334659
<i>Ophiophagus_hannah</i>	KX694600	KX694688	KX694860	EU921899
<i>Pantherophis_guttatus</i>	AY122814	KX694685	AM236349	AM236349
<i>Pareas_carinatus</i>	AF544773	AF544802	JQ598940	-
<i>Pareas_hamptoni</i>	KX694545	KX694656	KX694896	-
<i>Pituophis_deppei</i>	KX694582	KX694657	KX694867	AF138765
<i>Polemon_acanthias</i>	FJ404138	AY611848	AY612031	FJ404341
<i>Psammophis_elegans</i>	KX694546	KX694659	-	EU526862
<i>Psammophis_mossambicus</i>	KX694547	KX694660	KX694878	DQ486283
<i>Psammophis_subtaeniatus</i>	-	KX694661	DQ486358	DQ486253
<i>Psammophylax_variabilis</i>	AF544774	AY611864	AY612046	EU526859
<i>Pseudonaja_modesta</i>	EU547098	KX694662	EU547049	DQ098490
<i>Pseudoxenodon_bambusicola</i>	KX694575	KX694678	-	-
<i>Pseudoxenodon_karlschmidti</i>	KX694578	KX694676	KX694893	-
<i>Psomophis_joberti</i>	GQ457829	GQ457768	KX694887	-
<i>Ptyas_korros</i>	KX694591	KX694663	KX694869	AY487062
<i>Indotyphlops_braminus</i>	DQ343649	-	DQ343649	NC_010196
<i>Rhachidelus_brazili</i>	JQ598837	JQ598897	KX694885	-
<i>Rhamphiophis_oxyrhynchus</i>	KX694548	KX694664	-	-
<i>Sibynomorphus_mikanii</i>	GQ457832	GQ457771	KX694855	-
<i>Sibynophis_collaris</i>	KX694581	KX694665	KC000121	JN211315
<i>Sinomicrurus_maclellandi</i>	KX694549	KX694666	KX694853	EF137410
<i>Sinonatrix_percarinata</i>	KX694542	KX694667	KX694872	JQ687414
<i>Spalerosophis_diadema</i>	KX694605	KX694668	KX694865	AY487059
<i>Stoliczka_borneensis</i>	AF544779	AF544808	-	-
<i>Storeria_dekayi</i>	KX694607	KX694669	KX694874	EF417365
<i>Taeniophallus_nicagus</i>	KX694562	KX694677	KX694886	-
<i>Thamnophis_sirtalis</i>	KX694574	KX694670	AF420193	AF420196

Tomodon_dorsatus	GQ457838	GQ457777	KX694882	-
Xenochrophis_flavipunctatus	AF544780	AF544809	-	-
Xenodermus_javanicus	AF544781	AF544810	AY425810	U49320
Xenopeltis_unicolor	NC_007402	NC_007402	NC_007402	NC_007402

Colubridae

Species	12s	16s	Cytb	ND4	ND2
Ahaetulla_fronticincta	-	-	AF471072	-	-
Ahaetulla_nasuta	-	-	KC347453	KC347491	-
Ahaetulla_prasina	KX694556	KX694615	-	-	-
Ahaetulla_pulverulenta	KC347304	KC347339	KC347454	KC347492	-
Amphiesma_stolatum	-	-	JQ687432	JQ687425	JQ687464
Archelaphe_bella	-	-	DQ902134	DQ902316	DQ902248
Atretium_yunnanensis	-	-	GQ281787	JQ687423	JQ687463
Boiga_barnesii	KC347311	KC347345	KC347461	KC347499	-
Boiga_beddomei	KC347312	KC347346	KC347462	KC347500	-
Boiga_ceylonensis	KC347313	KC347347	KC347463	KC347501	-
Boiga_cynodon	Z46468	AF139568	-	-	-
Boiga_forsteni	KC347314	KC347348	KC347464	KC347502	-
Boiga_multomaculata	-	-	FJ710798	-	-
Boiga_trigonata	KC347315	KC347349	KC347465	KC347503	-
Calamaria_pavimentata	KX694584	KX694624	KX694890	-	-
Calamaria_yunnanensis	KX694572	KX694625	KX694891	-	-
Chrysopelea_ornata	KC347318	KC347353	KC347469	KC347506	-
Chrysopelea_taprobanica	KC347319	KC347354	KC347470	KC347507	-
Coelognathus_erythrurus	AY122665	-	DQ902108	DQ902288	DQ902215
Coelognathus_flavolineatus	AY122666	-	DQ902128	U49301	DQ902240
Coelognathus_helena	AY122674	-	DQ902112	DQ902292	DQ902219
Coelognathus_radiatus	AY122677	-	DQ902121	DQ902317	DQ902230
Coelognathus_subradiatus	AY122673	-	DQ902126	DQ902304	DQ902235
Coluber_constrictor	KX694604	KX694632	EU180486	AF138746	AY487002
Dendrelaphis_bifrenalis	KC347321	KC347356	KC347473	KC347509	-
Dendrelaphis_cyanochloris	-	-	MW111475	MW111431	-
Dendrelaphis_cyanochloris	-	-	KX660454	KX660580	-
Dendrelaphis_caudolineatus	AF544782	AF544811	GQ895864	-	-
Dendrelaphis_formosus	-	-	KX660438	KX660565	-
Dendrelaphis_fuliginosus	-	-	KX660512	KX660638	-
Dendrelaphis_haasi	-	-	KX660493	KX660622	-
Dendrelaphis_marenae	-	-	KX660514	KX660640	-
Dendrelaphis_ngansonensis	-	KX660158	-	KX660561	-
Dendrelaphis_pictus	-	-	JX678825	U49304	-
Dendrelaphis_proarchos	-	-	KX660455	KX660581	-
Dendrelaphis_striatus	-	-	KX660495	KX660624	-
Dendrelaphis_subocularis	-	-	KX660494	KX660623	-
Elaphe_bimaculata	AY122767	-	DQ902104	DQ902283	DQ902210
Elaphe_cantoris	MW114843	-	-	-	-
Elaphe_cantoris	AY122769	-	DQ902135	DQ902315	DQ902246
Elaphe_carinata	AY122839	HM439983	DQ902133	DQ902284	DQ902211

Elaphe_climacophora	AY122772	-	DQ902105	DQ902285	DQ902212
Elaphe_davidi	AY122775	-	-	-	-
Elaphe_dione	AF236673	-	DQ902107	DQ902287	DQ902214
Elaphe_hodgsoni	-	-	DQ902136	DQ902318	DQ902247
Elaphe_moellendorffi	AY122786	-	DQ902116	DQ902295	DQ902223
Elaphe_quadrivirgata	AY122793	-	DQ902120	DQ902300	DQ902228
Elaphe_quatuorlineata	AY122796	AF215267	AY486931	AY487067	AY487028
Elaphe_sauromates	AY122797	-	-	-	-
Elaphe_schrenckii	AF236672	-	JQ798790	DQ902302	DQ902233
Elaphe_taeiniura	AY122807	HM439981	EF076709	EF076708	EF076707
Gonyosoma_boulengeri	-	-	AF471053	-	-
Gonyosoma_frenatum	-	-	DQ902110	DQ902290	DQ902217
Gonyosoma_janseni	AY122671	-	DQ902113	DQ902313	DQ902220
Gonyosoma_oxyccephalum	AY122678	KX694646	KX694870	DQ902309	DQ902241
Gonyosoma_prasinum	-	-	DQ902119	DQ902299	DQ902227
Hebius_craspedogaster	-	-	JQ687429	JQ687412	JQ687459
Hebius_parallelum	-	-	MW111476	-	-
Herpetoreas_burbrinki	-	-	JQ687443	JQ687418	JQ687459
Herpetoreas_platyceps	-	-	MW111464	-	-
Hypsiglena_torquata	NC_013992	EU728591	AF471038	U49309	EU728591
Lycodon_alcalai	-	-	KC010344	-	-
Lycodon_aulicus	-	-	HQ735416	-	-
Lycodon_bibonius	-	-	KC010351	-	-
Lycodon_butleri	-	-	KC010353	-	-
Lycodon_carinatus	-	KC347352	KC347468	-	-
Lycodon_cavernicolus	-	-	KJ607890	-	-
Lycodon_fasciatus	-	-	MW111467	-	-
Lycodon_fasciatus	-	-	MW111468	-	-
Lycodon_septentrionalis	-	-	MW111469	-	-
Lycodon_chrysoprateros	-	-	KC010360	-	-
Lycodon_dumerilii	-	-	KC010361	-	-
Lycodon_effraenis	-	-	KC010376	-	-
Lycodon_meridionalis	-	-	MW111470	-	-
Lycodon_futsingensis	-	-	KC733209	-	-
Lycodon_gongshan	-	-	KP901024	-	-
Lycodon_jara	-	-	KC010367	-	-
Lycodon_laoensis	Z46455	Z46485	KC010368	-	-
Lycodon_muelleri	-	-	KC010373	-	-
Lycodon_multizonatus	-	-	KF732926	-	-
Lycodon_paucifasciatus	-	EU999213	-	-	-
Lycodon_rufozonatus	-	-	KC733194	-	-
Lycodon_ruhstrati	-	EU999209	KC010381	-	-
Lycodon_stormi	-	-	KC010380	-	-
Lycodon_subcinctus	-	-	KC733203	-	-

Lycodon_synaptor	-	-	MW111471	-	-
Lycodon_zawi	-	-	AF471040	-	-
Oligodon_arnensis	KC347327	KC347365	KC347481	KC347518	-
Oligodon_calamarius	KC347328	KC347329	-	-	-
Oligodon_ornatus	MW133293	MW090136	-	-	-
Oligodon_chinensis	HM591524	HM591527	-	-	-
Oligodon_cinereus	HM591503	HM591508	AF471033	-	-
Oligodon_cruentatus	HM591517	HM591517	-	-	-
Oligodon_cyclurus	HM591535	HM591536	-	-	-
Oligodon_fasciolatus	MW133294	MW090137	-	-	-
Oligodon_formosanus	HM591532	HM591533	-	-	-
Oligodon_lacroixi	MW133295	MW090138	-	-	-
Oligodon_lipipengi	MW133296	MW090139	-	-	-
Oligodon_maculatus	HM591511	HM591511	-	-	-
Oligodon_modestus	HM591498	-	-	-	-
Oligodon_nagao	MW133297	MW090140	-	-	-
Oligodon_ocellatus	MW133298	MW090141	-	-	-
Oligodon_octolineatus	HM591519	HM591519	-	-	-
Oligodon_planiceps	HM591514	HM591514	-	-	-
Oligodon_sp	MW133299	MW090142	-	-	-
Oligodon_splendidus	HM591510	HM591510	-	-	-
Oligodon_sublineatus	KC347329	KC347367	KC347483	KC347520	-
Oligodon_taeinatus	HM591520	HM591522	-	-	-
Oligodon_theobaldi	HM591516	HM591516	-	-	-
Oligodon_torquatus	HM591513	HM591513	-	-	-
Oligodon_venustus_	HM591500	-	-	-	-
Oreocryptophis_porphyraceus	NC_012770	NC_012770	DQ902118	DQ902298	NC_012770
Pseudoxenodon_bambusicola	JQ598833	JQ598893	-	-	-
Pseudoxenodon_karlschmidti	KX694578	KX694676	KX694893	-	-
Pseudoxenodon_macrops	JQ598835	JQ598895	JQ598949	-	-
Pseudoxenodon_stejnegeri	-	MW090133	-	-	-
Ptyas_carinata	-	KX660238	-	-	-
Ptyas_dhumnades	MW133300	MW090134	-	-	-
Ptyas_fusca	-	KX660202	-	-	-
Ptyas_korros	KX694591	KX694663	KX694869	AY487062	AY487023
Ptyas_luzonensis	-	KX660251	-	-	-
Ptyas_mucosa	AY122828	FJ907950	AF471054	AY487063	AY487024
Ptyas_nigromarginata	MW133301	MW090135	-	-	-
Rhabdophis_adleri	-	-	MW111465	-	-
Rhabdophis_guangdongensis	-	-	KF800930	-	-
Rhabdophis_himalayanus	-	-	-	-	-
Rhabdophis_leonardi	-	-	MW111472	-	-
Rhabdophis_nigrocinctus	-	-	MW111473	-	-
Rhabdophis_nuchalis	AF236678	-	GQ281786	JQ687413	JQ687454

<i>Rhabdophis_pentastriatus</i>	-	-	KF800934	-	-
<i>Rhabdophis_subminiatus</i>	AF544776	AF544805	JQ598951	JQ687411	-
<i>Rhabdophis_swinhoni</i>	-	-	AB842176	-	-
<i>Rhabdophis_tigrinus</i>	AF236679	-	GQ281785	JQ687419	JQ687460
<i>Sibynophis_bistrigatus</i>	-	-	KC000127	-	KC000130
<i>Sibynophis_chinensis</i>	-	-	KC000124	-	KC000131
<i>Sibynophis_collaris</i>	KX694581	KX694665	KC000121	JN211315	KC000133
<i>Sibynophis_triangularis</i>	-	-	KC000123	-	KC000132
<i>Thamnophis_sirtalis</i>	KX694574	KX694670	AF420193	AF420196	DQ995365
<i>Thermophis_baileyi</i>	-	-	EU496919	JN564723	JN559862
<i>Thermophis_zhaoermii</i>	GQ166168	GQ166168	GQ166168	GQ166168	GQ166168
<i>Trachischium_guentheri</i>	-	-	MN306288	-	-
<i>Trachischium_monticola</i>	-	-	MN306290	-	-
<i>Trachischium_tenuiceps</i>	-	-	MN306289	-	-
<i>Xenochrophis_flavipunctatus</i>	AF544780	AF544809	-	-	FJ416748
<i>Xenochrophis_piscator</i>	GQ225679	-	GQ225659	-	-
<i>Xenochrophis_punctulatus</i>	-	-	AF471079	AY487074	AY487035
<i>Xenochrophis_schnurrenbergeri</i>	GQ225678	-	GQ225660	-	-
Outgroup					
<i>Achalinus_meiguensis</i>	FJ424614	FJ424614	FJ424614	FJ424614	FJ424614
<i>Achalinus_rufescens</i>	KX694570	KX694613	KX694895	U49319	-
<i>Acrochordus_granulatus</i>	AB177879	NC007400	NC_007400	NC_007400	NC_007400
<i>Acrochordus_javanicus</i>	KX694587	KX694614	KX694897	HM234055	-
<i>Anilius_scytale</i>	FJ755180	NC_014343	FJ755180	FJ755180	NC_014343
<i>Azemiops_feae</i>	KX694579	KX694684	KX694840	AY352808	-
<i>Bitis_arietans</i>	KX694571	KX694619	KX694845	EU852304	JX073288
<i>Boa_constrictor</i>	NC_007398	NC_007398	AF471036	NC_007398	NC_007398
<i>Broghammerus_reticulatus</i>	Z46448	-	FJ717481	-	-
<i>Cantoria_violacea</i>	KX694595	KX694627	KX694852	-	-
<i>Cerberus_rynchops</i>	KX694596	KX694630	KX694850	U49327	-
<i>Crotalus_cerastes</i>	AF259235	AF259128	U69773	JN620962	AY016245
<i>Cylindrophis_ruffus</i>	NC_007401	NC_007401	NC_007401	NC_007401	NC_007401
<i>Deinagkistrodon_acutus</i>	KX694593	KX694683	KX694847	AY352811	DQ343647
<i>Eryx_colubrinus</i>	AF544747	-	U69811	-	-
<i>Eunectes_notaeus</i>	AM236347	-	AM236347	AM236347	AM236347
<i>Indotyphlops_braminus</i>	DQ343649	NC_010196	DQ343649	NC_010196	NC_010196
<i>Loxocemus_bicolor</i>	Z46456	-	AY099993	-	-
<i>Micrurus_surinamensis</i>	AF544770	AF544799	EF137415	EF137407	-
<i>Naja_atra</i>	KX694544	KX694689	KX694859	EU921898	EU921898
<i>Psammophis_mossambicus</i>	KX694547	KX694660	KX694878	DQ486283	-
<i>Sistrurus_catenatus</i>	DQ464268	AF259119	AY223610	HQ257759	GQ359800
<i>Vipera_ammodytes</i>	EU624266	EU624297	AM944799	EU624232	AM944799
<i>Xenopeltis_unicolor</i>	NC_007402	NC_007402	NC_007402	NC_007402	NC_007402
Species	C-mos				

Ahaetulla_fronticincta	AF471161
Ahaetulla_nasuta	KC347377
Ahaetulla_prasina	KX694801
Ahaetulla_pulverulenta	KC347378
Amphiesma_stolatum	JQ687450
Archelaphe_bella	DQ902097
Atretium_yunnanensis	JQ687448
Boiga_barnesii	KC347385
Boiga_beddomei	KC347386
Boiga_ceylonensis	KC347387
Boiga_cynodon	-
Boiga_forsteni	KC347388
Boiga_multomaculata	FJ710797
Boiga_trigonata	KC347389
Calamaria_pavimentata	KX694804
Calamaria_yunnanensis	KX694805
Chrysopelea_ornata	KC347393
Chrysopelea_taprobatica	KC347394
Coelognathus_erythrurus	DQ902067
Coelognathus_flavolineatus	DQ902090
Coelognathus_helena	DQ902071
Coelognathus_radiatus	DQ902079
Coelognathus_subradiatus	DQ902084
Coluber_constrictor	KX694806
Dendrelaphis_bifrenalis	KC347397
Dendrelaphis_cyanochloris	MW111502
Dendrelaphis_cyanochloris	KX660320
Dendrelaphis_caudolineatus	GQ895808
Dendrelaphis_formosus	KX660301
Dendrelaphis_fuliginosus	KX660383
Dendrelaphis_haasi	KX660365
Dendrelaphis_marenae	KX660385
Dendrelaphis_ngansonensis	KX660297
Dendrelaphis_pictus	-
Dendrelaphis_proarchos	KX660321
Dendrelaphis_striatus	KX660367
Dendrelaphis_subocularis	KX660366
Elaphe_bimaculata	DQ902062
Elaphe_cantoris	-
Elaphe_cantoris	DQ902095
Elaphe_carinata	DQ902063
Elaphe_climacophora	DQ902064
Elaphe_davidi	-
Elaphe_dione	DQ902066

Elaphe_hodgsoni	DQ902096
Elaphe_moellendorffi	DQ902074
Elaphe_quadrivirgata	DQ902078
Elaphe_quatuorlineata	AY486955
Elaphe_sauromates	-
Elaphe_schrenckii	DQ902082
Elaphe_taeniura	EF076705
Gonyosoma_boulengeri	AF471153
Gonyosoma_frenatum	DQ902069
Gonyosoma_janseni	DQ902100
Gonyosoma_oxycephalum	KX694808
Gonyosoma_prasinum	DQ902077
Hebius_craspedogaster	JQ687437
Hebius_parallelum	MW111503
Herpetoreas_burbrinki	GQ281781
Herpetoreas_platyceps	MW111514
Hypsiglena_torquata	AF471159
Lycodon_alcalai	KC010303
Lycodon_aulicus	HQ735418
Lycodon_bibonius	KC010309
Lycodon_butleri	KC010311
Lycodon_carinatus	KC347392
Lycodon_cavernicolus	-
Lycodon_fasciatus	MW111504
Lycodon_fasciatus	MW111505
Lycodon_septentrionalis	MW111506
Lycodon_chrysoprateros	KC010318
Lycodon_dumerilii	KC010319
Lycodon_effraenis	KC010328
Lycodon_meridionalis	MW111507
Lycodon_futsingensis	KC733225
Lycodon_gongshan	KP901016
Lycodon_jara	KC010322
Lycodon_laoensis	KC010323
Lycodon_muelleri	KC010326
Lycodon_multizonatus	KF732933
Lycodon_paucifasciatus	-
Lycodon_rufozonatus	KC733211
Lycodon_ruhstrati	KC010332
Lycodon_stormi	KC010331
Lycodon_subcinctus	KC733220
Lycodon_synaptor	MW111508
Lycodon_zawi	AF471111
Oligodon_arnensis	KC347405

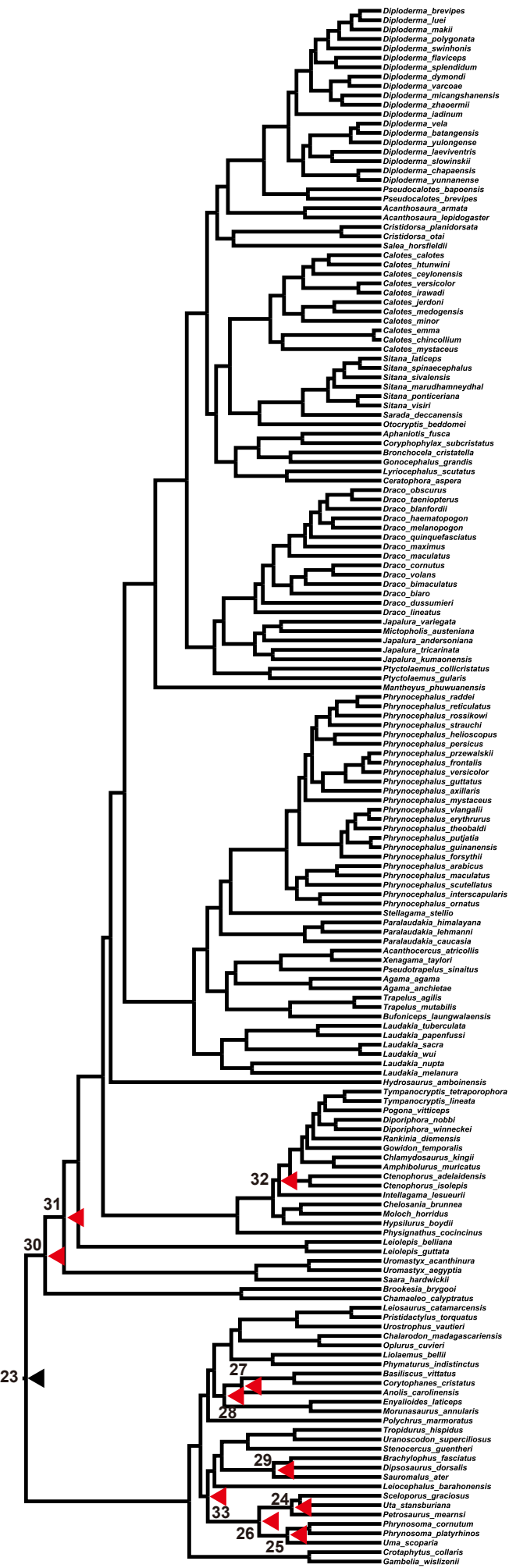
Oligodon_calamarius	-
Oligodon_ornatus	-
Oligodon_chinensis	-
Oligodon_cinereus	AF471101
Oligodon_cruentatus	-
Oligodon_cyclurus	-
Oligodon_fasciolatus	-
Oligodon_formosanus	-
Oligodon_lacroixi	-
Oligodon_lipipengi	-
Oligodon_maculatus	-
Oligodon_modestus	-
Oligodon_nagao	-
Oligodon_ocellatus	-
Oligodon_octolineatus	-
Oligodon_planiceps	-
Oligodon_sp	-
Oligodon_splendidus	-
Oligodon_sublineatus	KC347407
Oligodon_taeiniatus	-
Oligodon_theobaldi	-
Oligodon_torquatus	-
Oligodon_venustus_	-
Oreocryptophis_porphyraceus	DQ902076
Pseudoxenodon_bambusicola	JQ598996
Pseudoxenodon_karlschmidti	KX694816
Pseudoxenodon_macrops	-
Pseudoxenodon_stejnegeri	MW111492
Ptyas_carinata	KX660379
Ptyas_dhumnades	MW111493
Ptyas_fusca	KX660342
Ptyas_korros	KX694817
Ptyas_luzonensis	KX660392
Ptyas_mucosa	AF471151
Ptyas_nigromarginata	MW111494
Rhabdophis_adleri	MW111495
Rhabdophis_guangdongensis	KF800920
Rhabdophis_himalayanus	MW111496
Rhabdophis_leonardi	MW111497
Rhabdophis_nigrocinctus	MW111498
Rhabdophis_nuchalis	JQ687438
Rhabdophis_pentaprasinialis	KF800924
Rhabdophis_subminiatus	JQ687436
Rhabdophis_swinhoni	AB861888

Rhabdophis_tigrinus	JQ687444
Sibynophis_bistrigatus	KC000112
Sibynophis_chinensis	KC000113
Sibynophis_collaris	KX694818
Sibynophis_triangularis	KC000116
Thamnophis_sirtalis	DQ902094
Thermophis_baileyi	EU496922
Thermophis_zhaoermii	-
Trachischium_guentheri	MW111499
Trachischium_monticola	MW111501
Trachischium_tenuiceps	MW111500
Xenochrophis_flavipunctatus	AF544714
Xenochrophis_piscator	GQ225669
Xenochrophis_punctulatus	AF471106
Xenochrophis_schnurrenbergeri	GQ225668
Outgroup	
Achalinus_meiguensis	-
Achalinus_rufescens	-
Acrochordus_granulatus	KX694800
Acrochordus_javanicus	-
Anilius_scytale	AF544722
Azemiops_feae	KX694774
Bitis_arietans	-
Boa_constrictor	AF471115
Brogammerus_reticulatus	AF544675
Cantoria_violacea	EF395922
Cerberus_rynchops	KX694779
Crotalus_cerastes	JN620894
Cylindrophis_ruffus	AF471133
Deinagkistrodon_acutus	KX694782
Eryx_colubrinus	AF544716
Eunectes_notaeus	KX694783
Indotyphlops_braminus	AY099980
Loxocemus_bicolor	AF544730
Micrurus_surinamensis	EF137422
Naja_atra	KX694797
Psammophis_mossambicus	DQ486185
Sistrurus_catenatus	-
Vipera_ammodytes	-
Xenopeltis_unicolor	AY099977

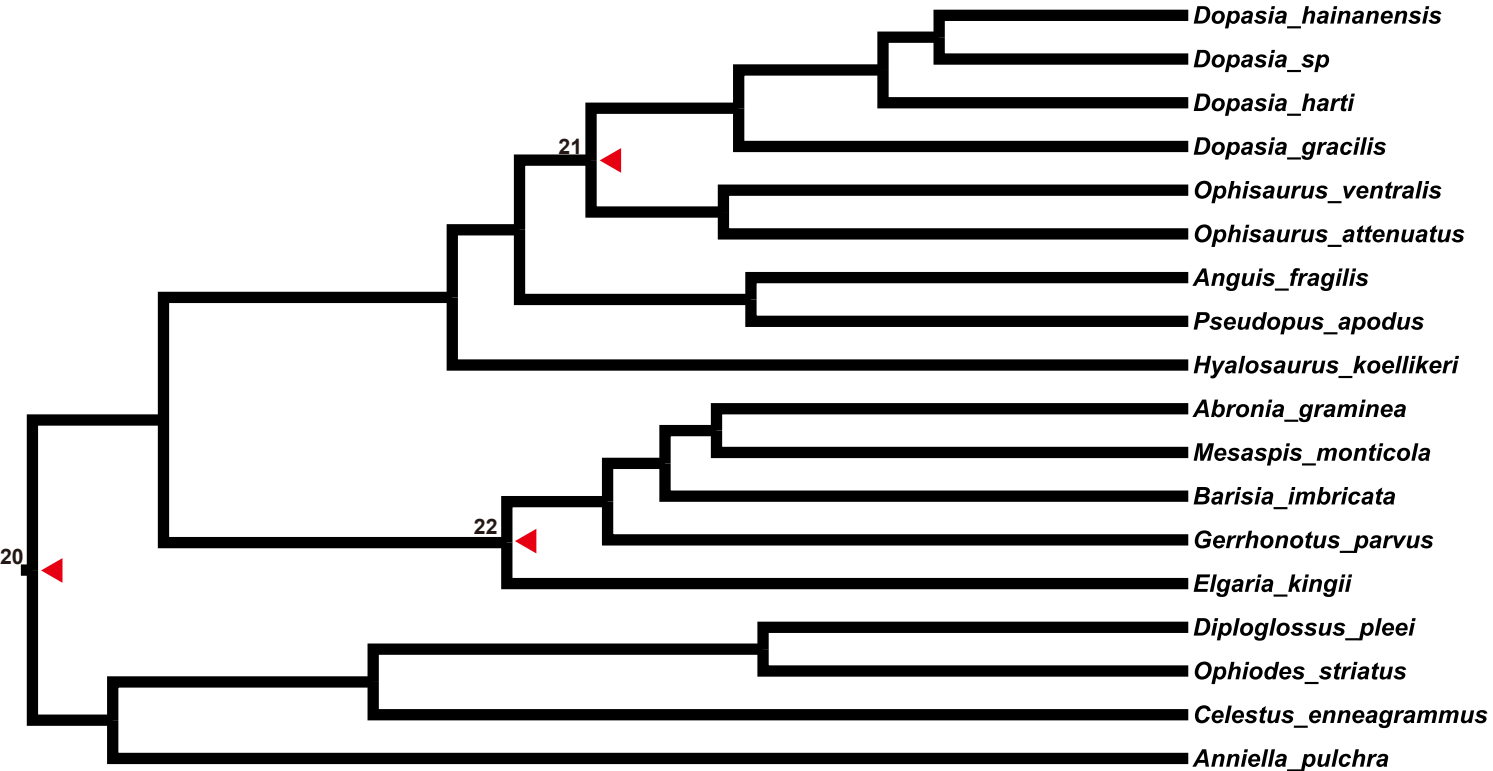
Data S6.

Time trees with calibration dates indicated. The estimated dates and confidence limits for each corresponding event are presented in **Table S2** and **Table S3**. The red triangles indicate fossil calibrations, and black triangles indicate secondary calibrations (see **Table S5** for a list all calibrations and their citations).

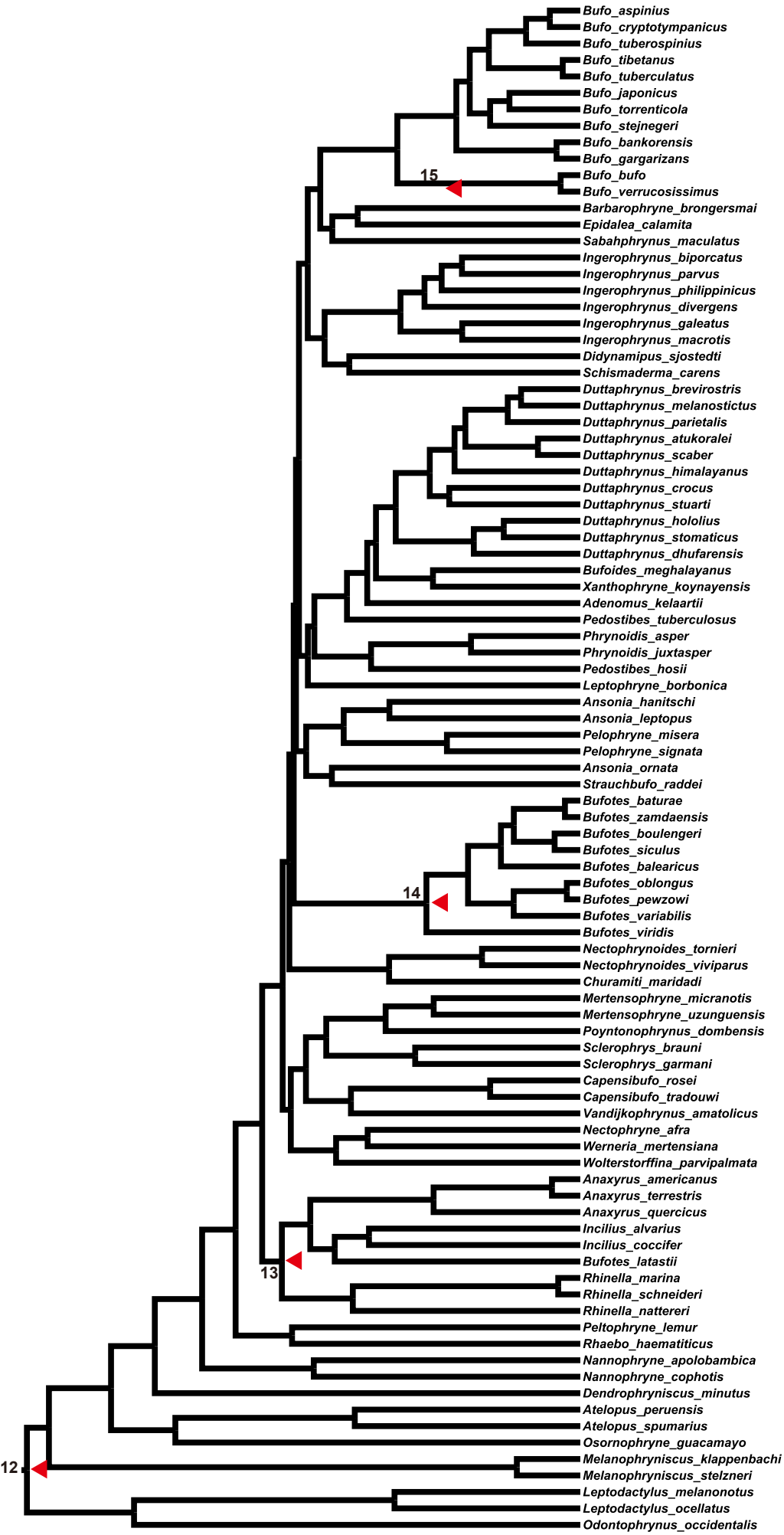
Agamidae



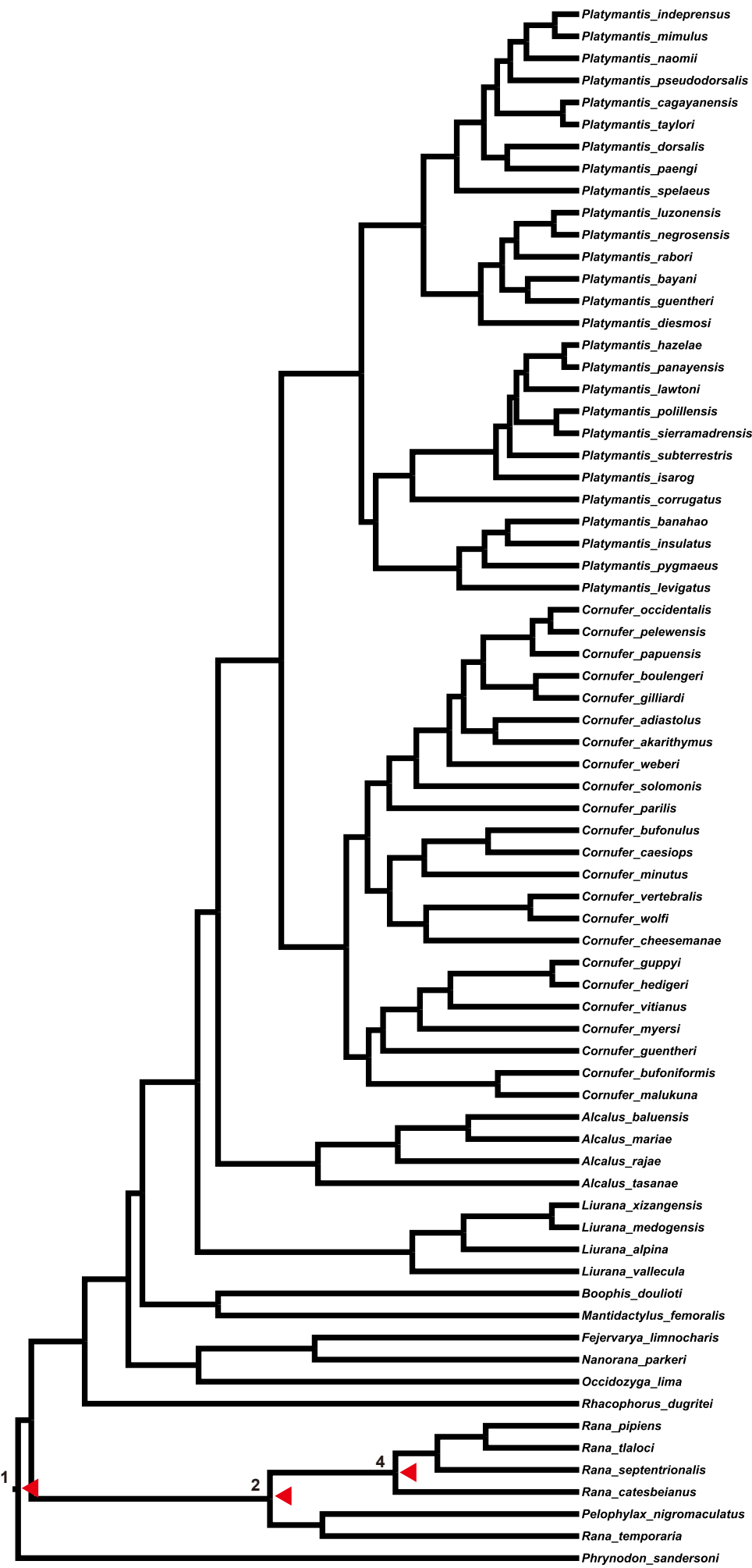
Anguillidae



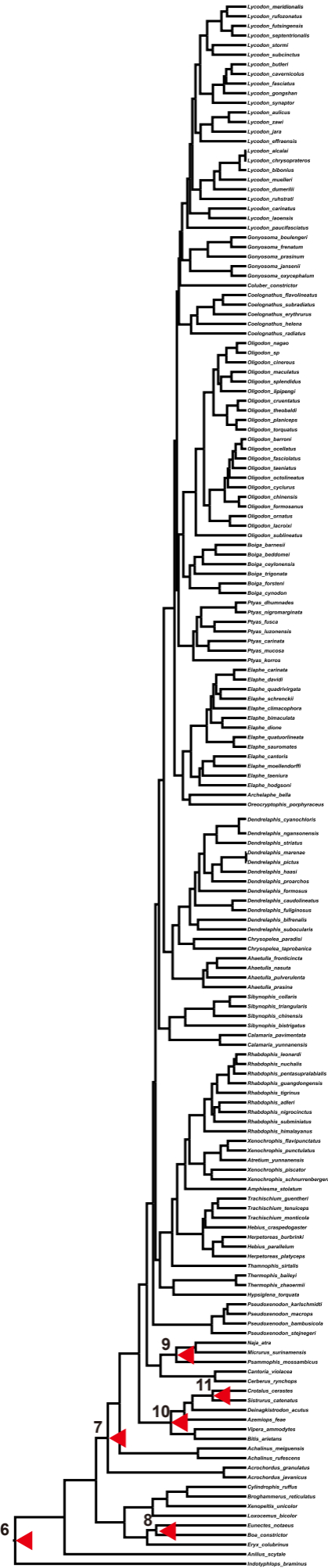
Bufoidea



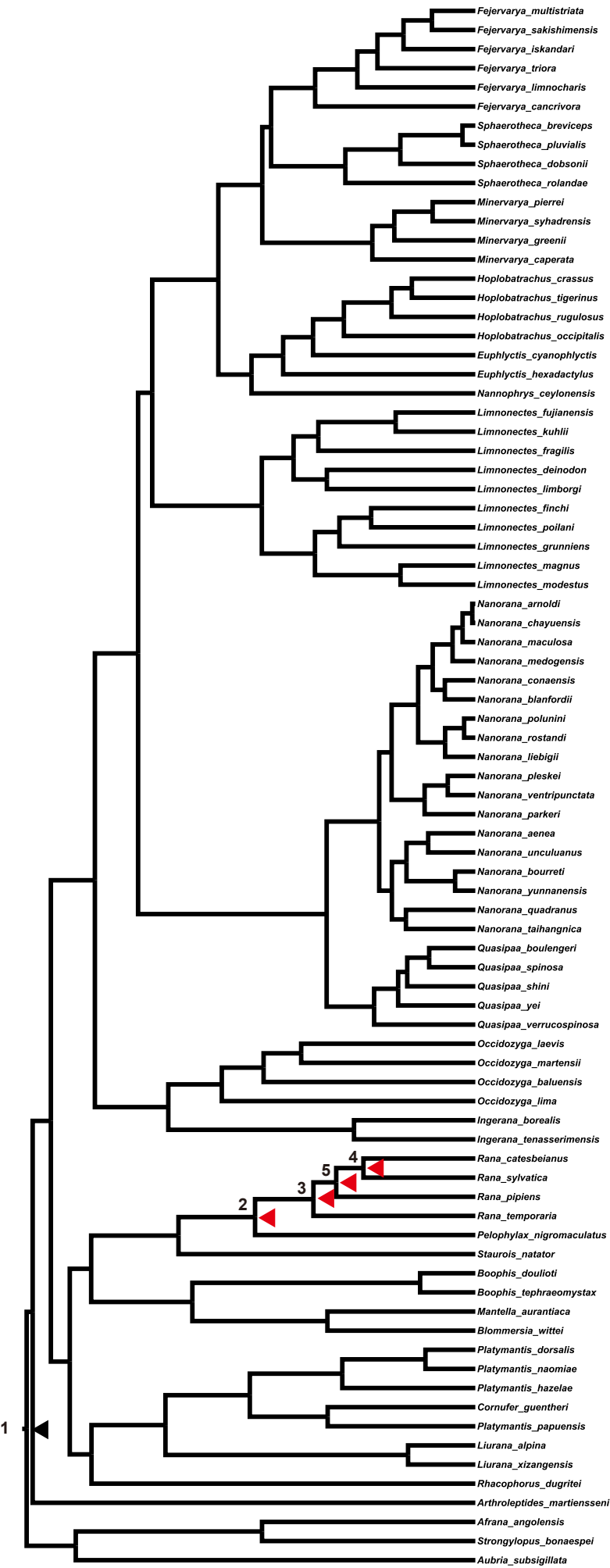
Ceratobatrachidae



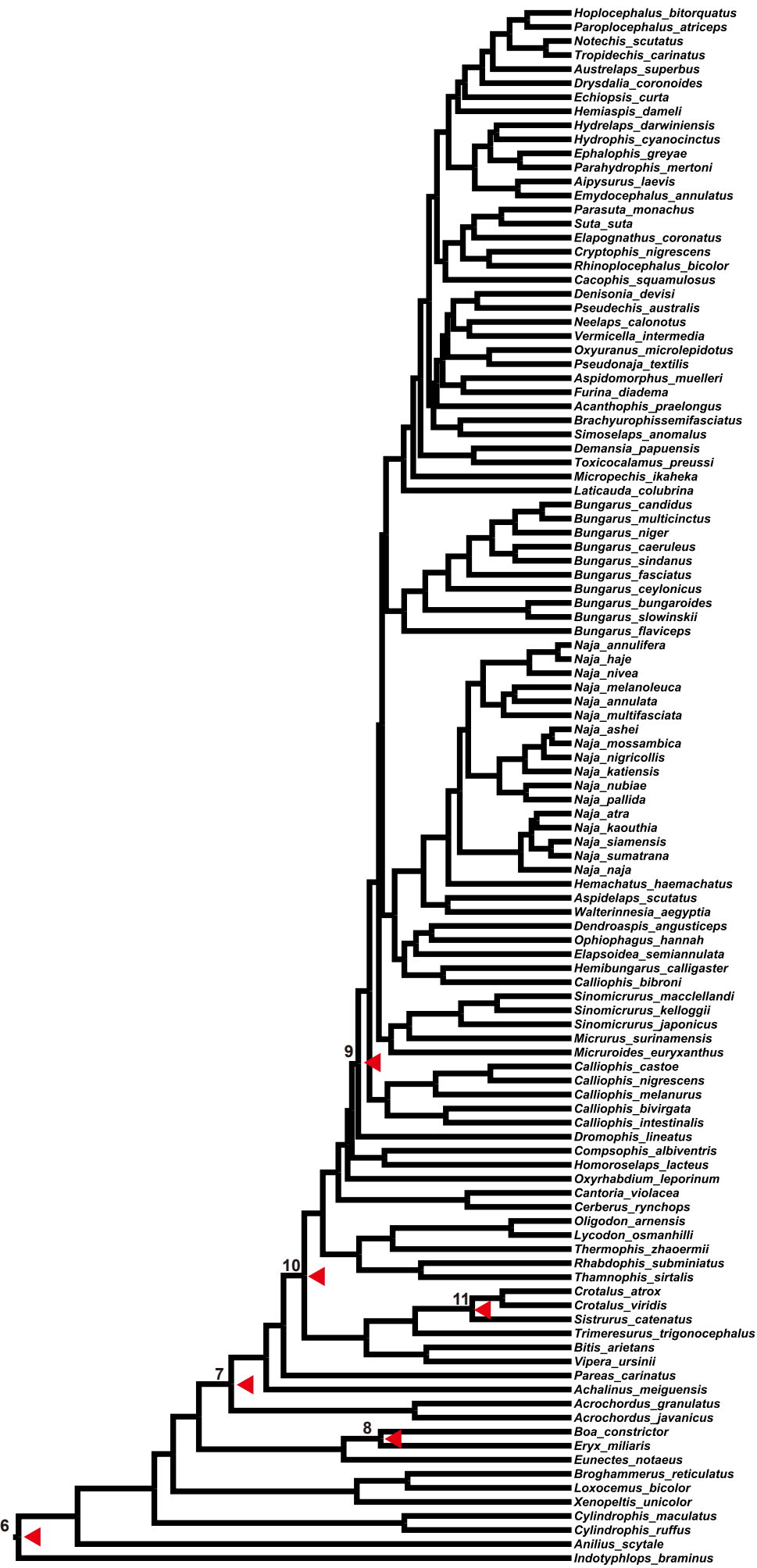
Colubridae



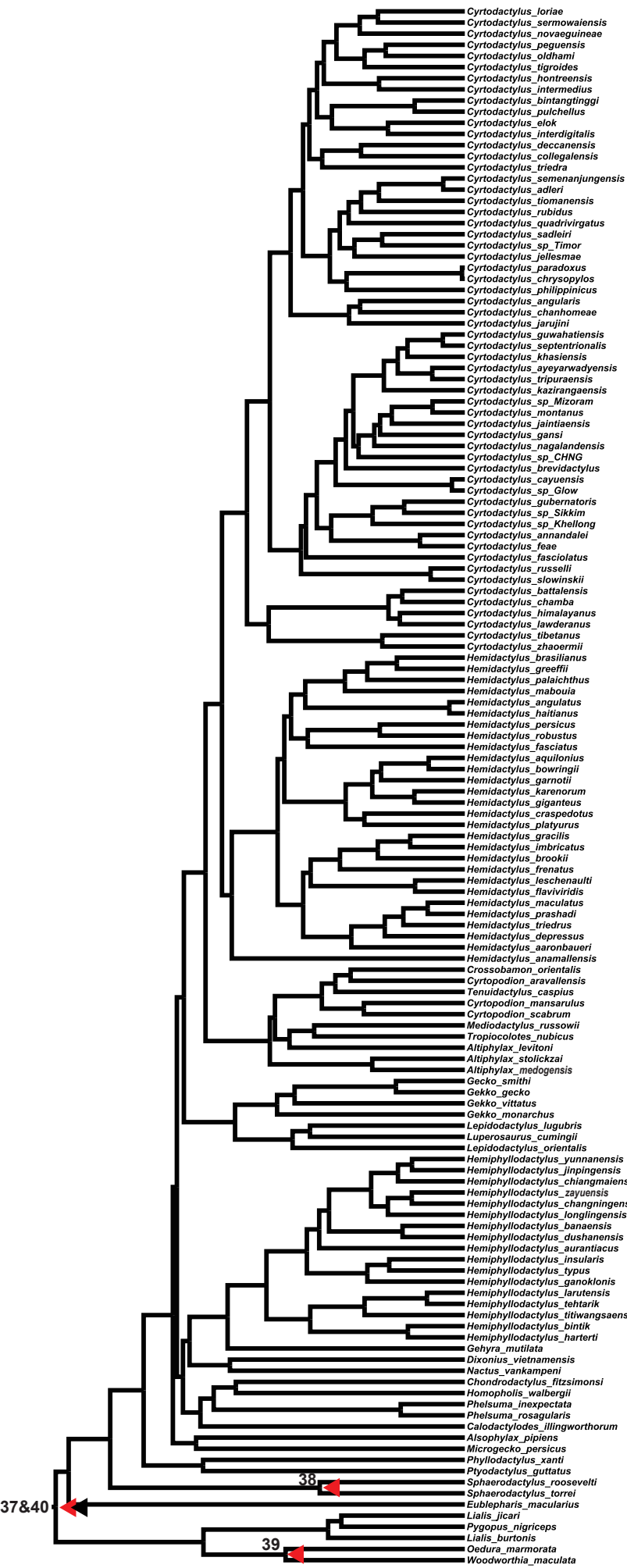
Dicroglossidae



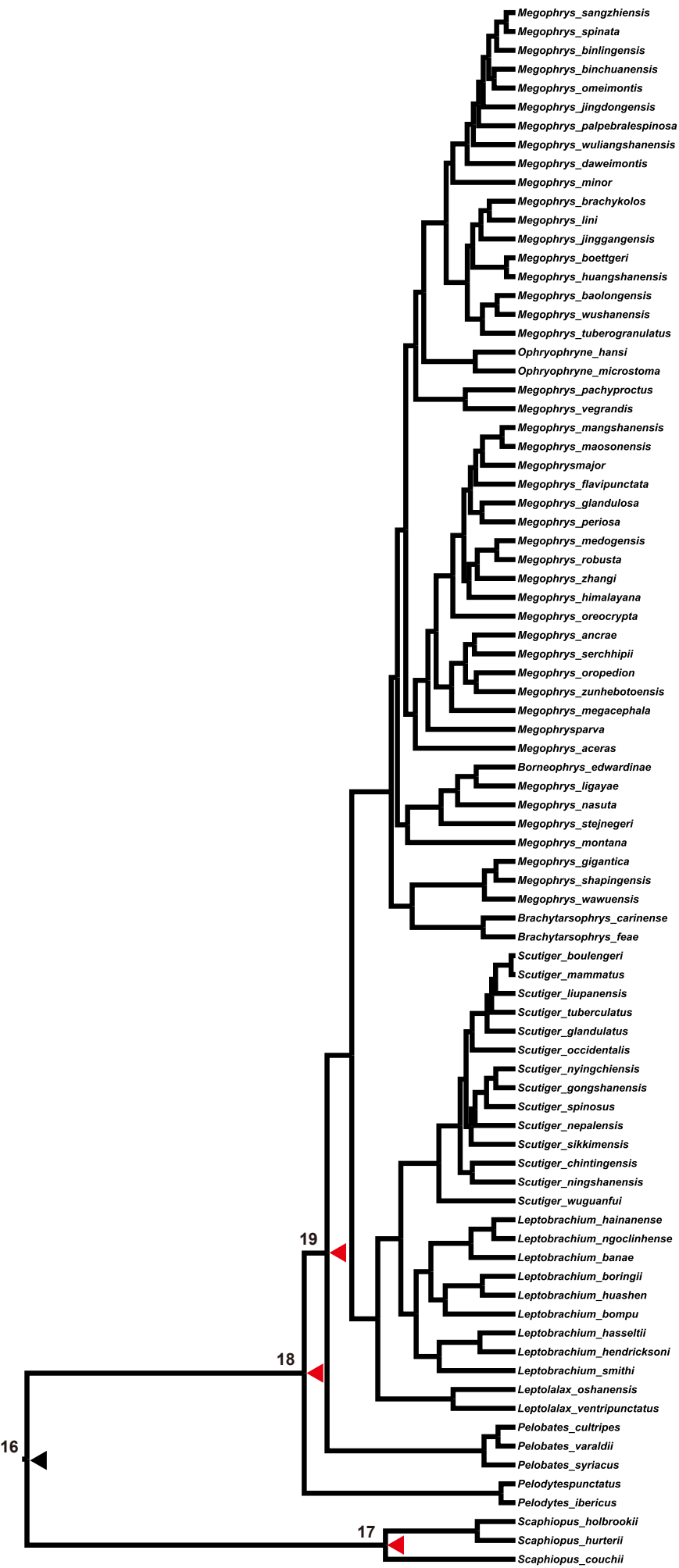
Elapidae



Gekkonidae



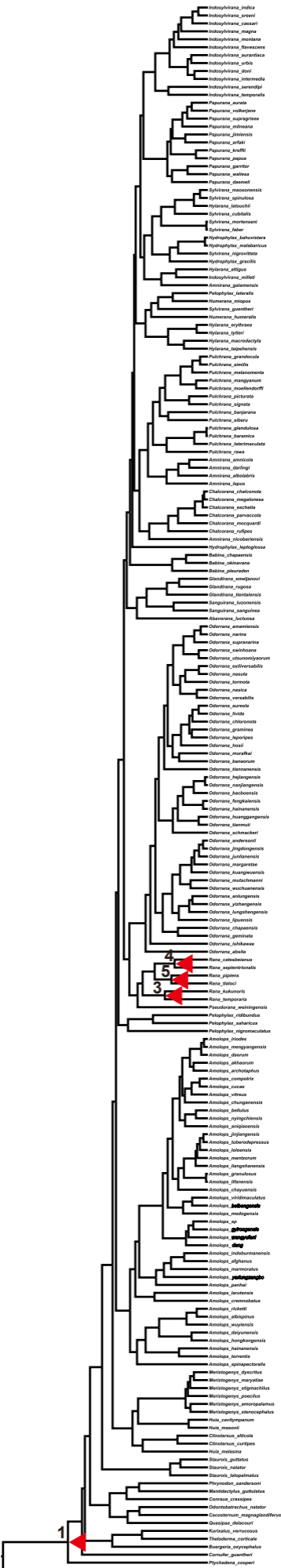
Megophryidae



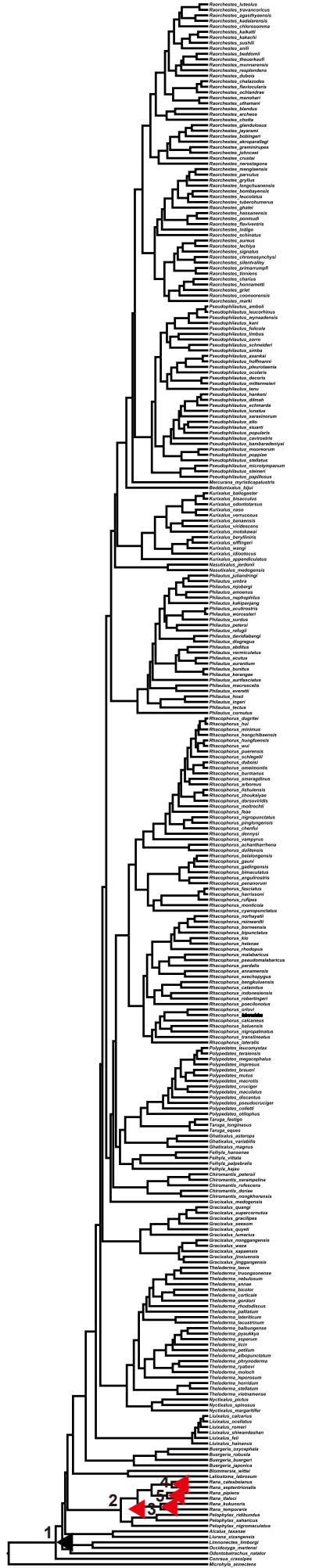
Pareidae



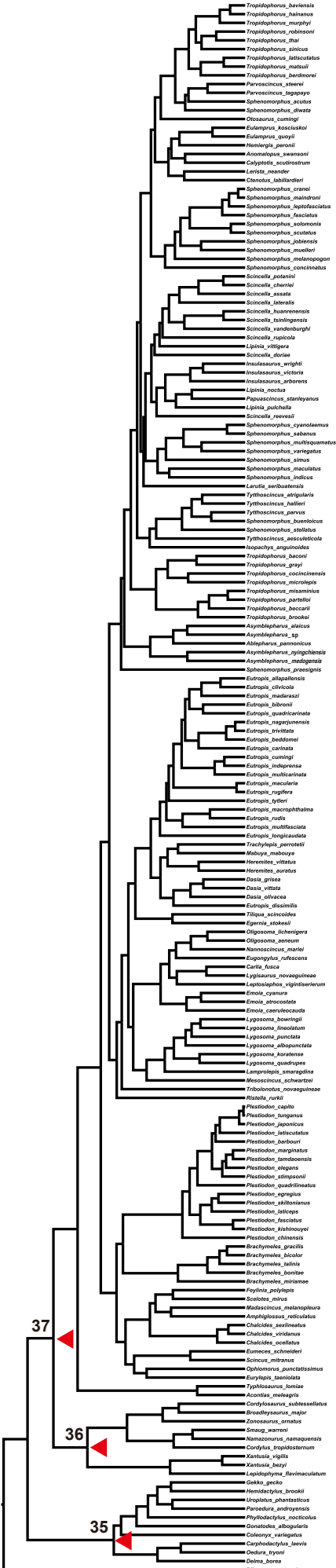
Ranidae



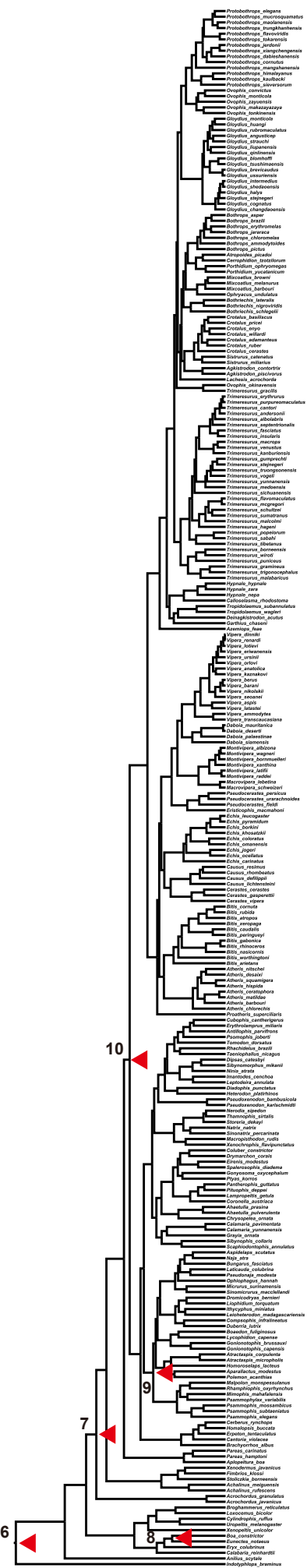
Rhacophoridae



Scincidae



Viperidae



Data S7.

Origination, peaks and inflection points detected of MDivE and MDisE curves from 1,000 bootstrap pseudoreplicates.

<i>In situ</i> diversification	Bootstrap (BS)	Origination time (Ma)	Time of the peak (Ma)	Inflection point 1 (Ma)	Inflection point 2 (Ma)
	BS1	67	14	11	28
	BS2	67	14	11	24
	BS3	67	14	11	35
	BS4	67	11	35	56
	BS5	67	11	35	56
	BS6	67	11	11	35
	BS7	57	11	35	51
	BS8	57	11	31	56
	BS9	57	11	27	55
	BS10	67	11	11	31
	BS11	67	14	11	28
	BS12	67	14	35	56
	BS13	67	14	35	51
	BS14	67	14	24	56
	BS15	67	14	31	56
	BS16	67	14	35	56
	BS17	67	14	11	29
	BS18	67	14	11	43
	BS19	57	14	28	55
	BS20	67	14	35	56
	BS21	67	14	35	56
	BS22	57	14	11	31
	BS23	57	11	27	52
	BS24	67	11	27	55
	BS25	67	11	31	54
	BS26	67	11	31	51
	BS27	67	11	35	56
	BS28	67	11	35	54
	BS29	67	11	27	51
	BS30	67	11	30	54
	BS31	67	11	11	35
	BS32	67	11	35	56
	BS33	67	11	28	51
	BS34	57	11	35	51
	BS35	67	11	28	55
	BS36	57	11	35	56
	BS37	67	11	29	46
	BS38	67	11	35	56

BS39	67	11	11	35
BS40	67	11	11	35
BS41	67	11	11	35
BS42	67	11	35	56
BS43	67	11	28	55
BS44	67	11	27	51
BS45	67	11	28	51
BS46	67	11	35	56
BS47	67	11	27	51
BS48	67	11	27	55
BS49	67	11	27	51
BS50	57	11	26	51
BS51	67	11	28	51
BS52	67	11	11	28
BS53	67	11	28	51
BS54	67	11	35	56
BS55	67	11	31	54
BS56	57	11	27	55
BS57	67	11	21	51
BS58	67	11	35	56
BS59	67	11	26	43
BS60	67	11	27	52
BS61	57	14	11	28
BS62	67	14	27	55
BS63	67	14	27	52
BS64	57	14	27	55
BS65	57	14	27	51
BS66	67	14	27	51
BS67	54	14	35	56
BS68	67	14	27	51
BS69	57	14	28	46
BS70	67	14	11	27
BS71	67	14	25	43
BS72	67	14	27	51
BS73	67	14	27	55
BS74	67	14	11	35
BS75	57	14	27	51
BS76	57	14	11	28
BS77	67	14	27	55
BS78	67	14	35	56

BS79	67	14	11	29
BS80	57	14	11	35
BS81	67	14	28	51
BS82	67	14	31	54
BS83	57	14	25	35
BS84	67	14	30	51
BS85	67	14	11	27
BS86	57	14	28	55
BS87	67	14	31	54
BS88	67	14	23	51
BS89	67	14	24	51
BS90	57	14	11	35
BS91	54	14	31	54
BS92	54	14	28	51
BS93	57	14	27	55
BS94	67	14	35	56
BS95	67	14	11	27
BS96	67	14	11	28
BS97	54	14	28	55
BS98	67	14	19	31
BS99	67	14	31	56
BS100	54	14	21	51
BS101	54	14	28	56
BS102	57	14	24	56
BS103	67	14	27	51
BS104	67	14	35	51
BS105	57	14	35	51
BS106	67	14	35	51
BS107	67	14	35	56
BS108	67	14	27	55
BS109	67	14	35	51
BS110	67	14	27	55
BS111	67	14	24	54
BS112	57	14	27	51
BS113	54	14	23	45
BS114	67	14	25	35
BS115	67	14	27	55
BS116	67	14	35	56
BS117	67	14	35	51
BS118	67	14	28	51

BS119	67	14	28	51
BS120	57	14	24	54
BS121	67	14	28	55
BS122	67	14	27	51
BS123	67	14	24	54
BS124	57	14	27	52
BS125	67	14	28	55
BS126	67	14	35	51
BS127	67	14	28	55
BS128	67	14	27	55
BS129	57	14	24	54
BS130	67	14	20	35
BS131	67	14	28	51
BS132	67	14	27	55
BS133	67	14	27	55
BS134	67	14	35	51
BS135	57	14	35	56
BS136	67	14	31	54
BS137	67	14	27	54
BS138	67	14	27	52
BS139	67	14	35	56
BS140	67	14	20	43
BS141	67	14	27	52
BS142	57	14	35	54
BS143	67	14	35	56
BS144	67	14	28	51
BS145	67	14	11	35
BS146	67	14	11	27
BS147	67	14	25	35
BS148	67	14	35	56
BS149	67	14	35	56
BS150	67	14	31	54
BS151	67	14	27	55
BS152	67	14	27	51
BS153	67	14	28	55
BS154	67	14	27	55
BS155	67	14	31	54
BS156	67	14	35	56
BS157	67	14	27	55
BS158	57	14	28	51

BS159	57	14	11	35
BS160	67	14	27	55
BS161	57	14	35	51
BS162	67	14	21	57
BS163	54	14	24	35
BS164	54	14	11	35
BS165	67	14	27	51
BS166	57	14	27	52
BS167	57	14	31	54
BS168	67	14	11	28
BS169	67	14	11	35
BS170	67	14	27	51
BS171	67	14	27	55
BS172	67	14	23	51
BS173	54	14	27	55
BS174	54	14	11	35
BS175	67	14	35	56
BS176	57	14	20	42
BS177	54	14	23	51
BS178	67	14	27	55
BS179	54	14	11	35
BS180	67	14	27	51
BS181	54	14	35	54
BS182	67	14	28	55
BS183	67	14	28	51
BS184	67	14	35	45
BS185	67	14	24	54
BS186	67	14	28	51
BS187	67	14	28	55
BS188	67	14	11	46
BS189	67	14	28	54
BS190	67	14	27	52
BS191	67	14	35	54
BS192	67	14	27	55
BS193	67	14	11	35
BS194	67	14	27	52
BS195	67	14	27	51
BS196	57	14	27	51
BS197	67	14	27	55
BS198	67	14	28	55

BS199	67	14	28	47
BS200	67	14	35	54
BS201	67	14	27	55
BS202	67	14	28	51
BS203	67	14	27	51
BS204	57	14	28	51
BS205	67	14	35	56
BS206	57	14	27	52
BS207	67	14	11	30
BS208	67	14	11	27
BS209	67	14	24	54
BS210	67	14	28	54
BS211	67	14	35	54
BS212	57	14	30	51
BS213	67	14	27	55
BS214	67	14	27	55
BS215	67	14	35	56
BS216	67	14	27	52
BS217	67	14	35	54
BS218	67	14	28	55
BS219	67	14	27	51
BS220	67	14	35	56
BS221	57	14	11	30
BS222	57	14	35	54
BS223	67	14	21	54
BS224	67	14	31	51
BS225	67	14	24	51
BS226	67	14	35	54
BS227	67	14	27	51
BS228	67	14	27	52
BS229	54	14	35	56
BS230	67	14	27	51
BS231	57	14	24	54
BS232	67	14	27	51
BS233	67	14	35	56
BS234	67	14	24	42
BS235	67	14	27	55
BS236	67	14	27	56
BS237	54	14	27	41
BS238	67	14	35	56

BS239	67	14	28	55
BS240	57	14	27	38
BS241	67	14	27	55
BS242	67	14	27	55
BS243	67	14	27	51
BS244	54	14	24	54
BS245	67	14	27	55
BS246	57	14	27	51
BS247	67	14	35	56
BS248	57	14	35	56
BS249	57	14	28	51
BS250	67	14	27	55
BS251	67	14	35	56
BS252	57	14	34	51
BS253	67	14	11	35
BS254	67	14	25	35
BS255	67	14	27	54
BS256	67	14	28	55
BS257	54	14	24	54
BS258	67	14	28	55
BS259	67	14	27	55
BS260	67	14	25	35
BS261	67	14	31	54
BS262	67	14	11	35
BS263	67	14	11	35
BS264	57	14	31	54
BS265	67	14	21	56
BS266	67	14	35	54
BS267	67	14	29	55
BS268	57	14	35	51
BS269	67	14	35	56
BS270	67	14	27	55
BS271	57	14	23	55
BS272	67	14	35	56
BS273	67	14	35	51
BS274	67	14	27	54
BS275	67	14	24	54
BS276	67	14	27	55
BS277	67	14	27	51
BS278	67	14	17	53

BS279	67	14	35	56
BS280	67	14	24	54
BS281	54	14	35	56
BS282	57	14	11	35
BS283	67	14	24	54
BS284	67	14	11	35
BS285	67	14	24	54
BS286	54	14	27	51
BS287	67	14	25	35
BS288	67	14	27	55
BS289	57	14	27	51
BS290	67	14	27	55
BS291	54	14	24	42
BS292	57	14	11	35
BS293	67	14	28	46
BS294	67	14	11	27
BS295	67	14	28	55
BS296	67	14	35	54
BS297	67	14	27	52
BS298	67	14	35	56
BS299	67	14	11	30
BS300	67	14	27	51
BS301	57	14	34	51
BS302	67	14	24	56
BS303	67	14	28	51
BS304	67	14	31	54
BS305	67	14	21	51
BS306	67	14	27	51
BS307	57	14	27	55
BS308	57	14	25	35
BS309	67	14	27	51
BS310	67	14	27	52
BS311	67	14	35	51
BS312	57	14	12	28
BS313	67	14	28	54
BS314	67	14	27	58
BS315	67	14	27	55
BS316	67	14	28	51
BS317	67	14	27	51
BS318	54	14	27	52

BS319	67	14	27	54
BS320	67	14	35	56
BS321	67	14	35	56
BS322	67	14	35	56
BS323	67	14	31	54
BS324	67	14	11	27
BS325	67	14	35	54
BS326	67	14	11	35
BS327	67	14	27	51
BS328	57	14	28	51
BS329	57	14	13	35
BS330	67	14	11	30
BS331	67	14	31	54
BS332	57	14	23	51
BS333	67	14	11	35
BS334	67	14	35	51
BS335	67	14	24	55
BS336	67	14	27	51
BS337	67	14	35	51
BS338	67	14	27	55
BS339	67	14	11	31
BS340	57	14	35	56
BS341	67	14	11	27
BS342	57	14	24	51
BS343	67	14	24	54
BS344	67	14	28	51
BS345	67	14	20	35
BS346	67	14	11	35
BS347	67	14	27	51
BS348	67	14	23	51
BS349	67	14	35	56
BS350	67	14	11	35
BS351	67	14	31	54
BS352	67	14	35	54
BS353	67	14	11	40
BS354	67	14	35	56
BS355	67	14	23	46
BS356	67	14	31	51
BS357	57	14	31	54
BS358	57	14	24	54

BS359	67	14	28	55
BS360	67	14	28	55
BS361	67	14	24	54
BS362	67	14	28	55
BS363	67	14	28	55
BS364	67	14	24	49
BS365	57	14	11	27
BS366	67	14	27	51
BS367	67	14	35	51
BS368	67	14	28	51
BS369	67	14	27	55
BS370	67	14	35	54
BS371	67	14	35	56
BS372	54	14	35	51
BS373	67	14	28	55
BS374	67	14	11	35
BS375	67	14	27	52
BS376	67	14	26	51
BS377	67	14	35	56
BS378	57	14	35	56
BS379	67	14	35	56
BS380	67	14	27	55
BS381	57	14	28	51
BS382	54	14	27	51
BS383	67	14	27	45
BS384	57	14	27	51
BS385	67	14	28	42
BS386	67	14	27	52
BS387	67	14	28	51
BS388	67	14	35	56
BS389	54	14	27	55
BS390	67	14	28	55
BS391	57	14	24	56
BS392	67	14	35	56
BS393	54	14	30	54
BS394	67	14	19	51
BS395	67	14	22	35
BS396	67	14	31	54
BS397	67	14	27	55
BS398	67	14	28	55

BS399	67	14	35	51
BS400	67	14	28	55
BS401	57	14	11	35
BS402	67	14	28	54
BS403	57	14	21	51
BS404	67	14	24	56
BS405	67	14	11	28
BS406	67	14	31	56
BS407	67	14	28	55
BS408	67	14	35	56
BS409	67	14	35	51
BS410	54	14	11	35
BS411	67	14	35	51
BS412	67	14	27	55
BS413	67	14	11	28
BS414	57	14	11	35
BS415	67	14	27	55
BS416	67	14	35	56
BS417	57	14	28	51
BS418	57	14	27	52
BS419	67	14	24	54
BS420	67	14	28	55
BS421	67	14	24	54
BS422	67	14	27	41
BS423	54	14	23	51
BS424	67	14	35	51
BS425	67	14	11	27
BS426	57	14	35	51
BS427	57	14	27	55
BS428	67	14	24	35
BS429	67	14	31	51
BS430	57	14	35	54
BS431	67	14	28	51
BS432	57	14	35	54
BS433	67	14	28	51
BS434	67	14	35	54
BS435	57	14	27	51
BS436	67	14	35	51
BS437	57	14	35	54
BS438	57	14	28	55

BS439	67	14	28	51
BS440	67	14	27	51
BS441	57	14	28	51
BS442	57	14	28	51
BS443	67	14	27	56
BS444	67	14	28	55
BS445	67	14	27	52
BS446	67	14	28	55
BS447	54	14	11	28
BS448	54	14	35	56
BS449	67	14	27	55
BS450	67	14	35	54
BS451	67	14	35	56
BS452	67	14	35	51
BS453	67	14	28	51
BS454	57	14	35	56
BS455	57	14	23	51
BS456	57	14	27	51
BS457	67	14	11	35
BS458	57	14	27	55
BS459	67	14	11	28
BS460	67	14	11	28
BS461	57	14	27	55
BS462	67	14	30	56
BS463	67	14	35	51
BS464	67	14	27	51
BS465	67	14	31	54
BS466	67	14	25	35
BS467	67	14	28	55
BS468	67	14	27	55
BS469	67	14	28	51
BS470	67	14	35	56
BS471	57	14	27	51
BS472	57	14	28	51
BS473	67	14	28	51
BS474	67	14	28	58
BS475	67	14	35	56
BS476	67	14	35	56
BS477	57	14	11	27
BS478	67	14	35	45

BS479	67	14	28	55
BS480	67	14	35	56
BS481	67	14	27	51
BS482	67	14	28	55
BS483	67	14	28	51
BS484	54	14	28	51
BS485	67	14	11	35
BS486	57	14	27	51
BS487	57	14	11	35
BS488	67	14	24	51
BS489	67	14	31	51
BS490	67	14	35	56
BS491	57	14	28	55
BS492	67	14	27	55
BS493	67	14	35	56
BS494	67	14	35	56
BS495	57	14	11	35
BS496	67	14	28	55
BS497	67	14	28	55
BS498	54	14	11	28
BS499	67	14	27	55
BS500	67	14	35	56
BS501	67	14	27	55
BS502	67	14	11	28
BS503	67	14	27	55
BS504	67	14	34	51
BS505	67	14	35	51
BS506	67	14	26	43
BS507	54	14	28	51
BS508	54	14	27	55
BS509	67	14	27	51
BS510	67	14	23	43
BS511	57	14	11	27
BS512	67	14	24	56
BS513	67	14	35	51
BS514	57	14	36	55
BS515	67	14	27	51
BS516	67	14	27	51
BS517	67	14	27	51
BS518	67	14	27	51

BS519	67	14	35	51
BS520	67	14	11	35
BS521	67	14	28	55
BS522	67	14	35	56
BS523	67	14	35	51
BS524	67	14	28	42
BS525	67	14	11	35
BS526	57	14	11	35
BS527	57	14	31	51
BS528	67	14	35	56
BS529	54	14	28	55
BS530	67	14	28	51
BS531	67	14	27	52
BS532	67	14	11	35
BS533	57	14	35	56
BS534	67	14	25	35
BS535	67	14	35	54
BS536	67	14	27	55
BS537	67	14	27	55
BS538	67	14	11	28
BS539	57	14	27	55
BS540	57	14	28	51
BS541	54	14	27	51
BS542	57	14	24	42
BS543	67	14	36	55
BS544	67	14	24	51
BS545	67	14	35	56
BS546	57	14	24	54
BS547	67	14	27	55
BS548	67	14	28	51
BS549	67	14	35	56
BS550	67	14	35	56
BS551	67	14	24	56
BS552	67	14	25	49
BS553	67	14	28	51
BS554	67	14	27	55
BS555	67	14	31	54
BS556	67	14	35	56
BS557	52	14	35	56
BS558	67	14	27	51

BS559	67	14	11	35
BS560	67	14	11	31
BS561	67	14	28	51
BS562	54	14	27	51
BS563	67	14	27	51
BS564	57	14	27	51
BS565	67	14	27	55
BS566	67	14	25	51
BS567	57	14	35	54
BS568	67	14	24	54
BS569	67	14	24	43
BS570	67	14	28	55
BS571	67	14	31	51
BS572	67	14	18	51
BS573	67	14	31	56
BS574	67	14	35	54
BS575	67	14	29	51
BS576	67	14	28	55
BS577	67	14	25	51
BS578	67	14	35	56
BS579	67	14	27	51
BS580	67	14	24	56
BS581	67	14	20	35
BS582	57	14	11	28
BS583	67	14	20	55
BS584	67	14	31	51
BS585	67	14	27	51
BS586	54	14	28	51
BS587	67	14	20	35
BS588	57	14	31	54
BS589	67	14	35	51
BS590	67	14	24	54
BS591	67	14	27	51
BS592	57	14	25	35
BS593	57	14	27	52
BS594	67	14	27	55
BS595	67	14	35	54
BS596	67	14	35	56
BS597	67	14	28	55
BS598	67	14	27	51

BS599	67	14	11	35
BS600	67	14	35	56
BS601	67	14	27	55
BS602	57	14	27	55
BS603	57	14	20	51
BS604	67	14	35	56
BS605	67	14	35	56
BS606	67	14	11	27
BS607	67	14	28	51
BS608	54	14	28	51
BS609	67	14	35	56
BS610	67	14	30	54
BS611	67	14	23	51
BS612	67	14	27	55
BS613	57	14	27	55
BS614	67	14	28	51
BS615	67	14	35	45
BS616	57	14	26	55
BS617	67	14	27	55
BS618	67	14	28	51
BS619	67	14	11	27
BS620	67	14	35	51
BS621	67	14	27	51
BS622	67	14	11	31
BS623	67	14	24	43
BS624	67	14	35	54
BS625	67	14	28	51
BS626	67	14	31	56
BS627	67	14	35	54
BS628	67	14	11	27
BS629	67	14	25	35
BS630	67	14	23	45
BS631	57	13	27	51
BS632	67	13	26	43
BS633	67	13	24	51
BS634	67	13	28	51
BS635	67	13	27	56
BS636	67	13	35	54
BS637	67	13	35	51
BS638	67	13	23	51

BS639	67	13	28	51
BS640	67	13	27	55
BS641	67	13	27	55
BS642	67	13	27	55
BS643	67	13	35	56
BS644	57	13	35	54
BS645	57	13	24	51
BS646	67	13	28	55
BS647	54	13	35	51
BS648	67	13	27	52
BS649	67	13	27	58
BS650	54	13	27	55
BS651	67	13	28	51
BS652	67	13	27	55
BS653	67	13	25	35
BS654	67	13	35	56
BS655	67	13	28	51
BS656	67	13	35	56
BS657	67	13	35	51
BS658	67	13	27	55
BS659	67	13	28	55
BS660	57	13	25	35
BS661	67	13	35	56
BS662	67	13	31	55
BS663	67	13	28	58
BS664	67	13	23	42
BS665	67	13	35	51
BS666	67	13	11	35
BS667	67	13	35	56
BS668	67	13	11	27
BS669	57	13	25	35
BS670	67	13	24	54
BS671	67	13	28	51
BS672	67	13	35	51
BS673	67	13	23	43
BS674	67	13	27	51
BS675	67	13	35	51
BS676	67	13	29	55
BS677	67	13	27	55
BS678	67	13	24	56

BS679	67	13	27	52
BS680	67	13	25	35
BS681	67	13	35	54
BS682	67	13	38	56
BS683	54	13	28	55
BS684	67	13	11	28
BS685	57	13	25	51
BS686	67	13	31	51
BS687	67	13	27	51
BS688	57	13	35	54
BS689	67	13	35	56
BS690	67	13	11	35
BS691	67	13	35	56
BS692	67	13	43	54
BS693	67	13	11	35
BS694	57	13	25	43
BS695	57	13	27	55
BS696	67	13	27	55
BS697	67	13	35	56
BS698	57	13	35	51
BS699	67	13	35	56
BS700	67	13	27	51
BS701	57	13	27	55
BS702	54	13	35	56
BS703	54	13	27	38
BS704	67	13	35	56
BS705	67	13	27	52
BS706	67	13	28	55
BS707	67	13	27	55
BS708	67	13	35	56
BS709	67	13	28	54
BS710	57	13	27	55
BS711	54	13	27	51
BS712	67	13	11	35
BS713	67	13	35	51
BS714	67	13	35	56
BS715	67	13	11	35
BS716	67	13	25	35
BS717	67	13	35	54
BS718	67	13	25	35

BS719	67	13	35	51
BS720	67	13	28	51
BS721	67	13	11	27
BS722	67	13	11	35
BS723	67	13	35	56
BS724	67	13	24	54
BS725	57	13	25	35
BS726	67	13	27	55
BS727	67	13	27	55
BS728	57	13	27	51
BS729	67	13	35	51
BS730	67	13	28	51
BS731	57	13	35	56
BS732	67	13	11	27
BS733	67	13	20	35
BS734	67	13	30	54
BS735	54	13	24	54
BS736	57	13	31	54
BS737	57	13	35	54
BS738	67	13	27	51
BS739	67	13	27	55
BS740	67	13	11	35
BS741	57	13	20	42
BS742	67	13	28	51
BS743	67	13	31	54
BS744	67	13	27	51
BS745	57	13	28	51
BS746	67	13	27	55
BS747	67	13	27	58
BS748	67	13	28	51
BS749	67	13	27	55
BS750	54	13	35	56
BS751	57	13	28	51
BS752	54	13	23	55
BS753	67	13	28	55
BS754	67	13	35	54
BS755	67	13	35	56
BS756	67	13	27	51
BS757	57	13	27	51
BS758	67	13	35	51

BS759	67	13	29	46
BS760	67	13	35	56
BS761	67	13	11	31
BS762	57	13	35	54
BS763	67	13	22	35
BS764	67	13	27	55
BS765	67	13	28	55
BS766	67	13	27	55
BS767	67	13	35	56
BS768	67	13	11	35
BS769	67	13	24	56
BS770	67	13	28	55
BS771	67	13	28	55
BS772	67	13	35	51
BS773	67	13	27	51
BS774	57	13	26	55
BS775	67	13	35	56
BS776	67	13	31	51
BS777	57	13	27	51
BS778	67	13	24	56
BS779	67	13	27	52
BS780	67	13	11	43
BS781	67	13	25	43
BS782	67	13	35	54
BS783	54	13	25	35
BS784	67	13	35	54
BS785	57	13	23	51
BS786	57	13	27	55
BS787	67	13	35	51
BS788	67	13	28	55
BS789	67	13	24	35
BS790	54	13	24	35
BS791	67	13	11	30
BS792	67	13	35	56
BS793	54	13	27	51
BS794	57	13	28	54
BS795	67	13	11	28
BS796	57	13	27	55
BS797	67	13	27	55
BS798	67	13	28	55

BS799	67	13	28	55
BS800	67	13	30	51
BS801	67	13	24	56
BS802	67	13	11	35
BS803	67	13	25	43
BS804	57	13	11	35
BS805	67	13	28	55
BS806	67	13	35	56
BS807	57	13	24	51
BS808	67	13	24	54
BS809	67	13	25	35
BS810	67	13	35	51
BS811	67	13	35	54
BS812	67	13	35	51
BS813	57	13	23	45
BS814	54	13	28	55
BS815	67	13	11	27
BS816	67	13	35	56
BS817	67	13	27	51
BS818	67	13	24	35
BS819	67	13	11	30
BS820	57	13	35	56
BS821	67	13	29	55
BS822	57	13	31	54
BS823	67	13	23	45
BS824	57	13	11	35
BS825	67	13	11	27
BS826	67	13	35	54
BS827	67	13	25	35
BS828	67	13	24	54
BS829	67	13	27	51
BS830	67	13	11	35
BS831	67	13	25	55
BS832	67	13	19	35
BS833	67	13	35	54
BS834	67	13	35	54
BS835	54	13	27	55
BS836	67	13	27	55
BS837	67	13	27	55
BS838	57	13	28	51

BS839	67	13	11	31
BS840	57	13	27	52
BS841	67	13	27	55
BS842	67	13	35	56
BS843	67	13	29	43
BS844	67	13	35	54
BS845	57	13	35	51
BS846	67	13	24	56
BS847	67	13	28	51
BS848	67	13	11	28
BS849	67	13	35	56
BS850	57	13	27	58
BS851	67	13	28	55
BS852	67	13	28	55
BS853	67	13	28	51
BS854	67	13	35	54
BS855	54	13	35	56
BS856	67	13	28	55
BS857	67	13	35	56
BS858	67	13	35	51
BS859	67	13	28	55
BS860	67	13	11	31
BS861	67	13	23	55
BS862	67	13	23	42
BS863	57	13	27	55
BS864	67	13	11	35
BS865	54	13	31	51
BS866	67	13	28	51
BS867	67	13	11	28
BS868	67	13	11	31
BS869	57	13	35	54
BS870	67	13	11	28
BS871	57	13	12	35
BS872	67	13	28	51
BS873	57	13	35	56
BS874	57	13	27	51
BS875	67	13	37	55
BS876	57	13	27	55
BS877	54	13	35	54
BS878	67	13	25	51

BS879	54	13	25	51
BS880	67	13	31	51
BS881	67	13	31	54
BS882	67	13	31	51
BS883	67	13	11	27
BS884	67	13	35	56
BS885	67	13	11	35
BS886	67	13	28	55
BS887	57	13	24	54
BS888	57	13	11	35
BS889	54	13	11	27
BS890	67	13	27	51
BS891	67	13	11	35
BS892	67	13	35	56
BS893	57	13	11	30
BS894	54	13	25	40
BS895	67	13	35	56
BS896	54	13	24	56
BS897	67	13	27	52
BS898	54	13	35	56
BS899	67	13	35	54
BS900	67	13	27	55
BS901	67	13	31	51
BS902	57	13	35	54
BS903	57	13	35	51
BS904	67	13	27	45
BS905	67	13	27	55
BS906	54	13	27	51
BS907	67	13	27	51
BS908	57	13	28	54
BS909	67	13	11	27
BS910	67	13	27	51
BS911	54	13	24	54
BS912	54	13	28	55
BS913	54	13	24	55
BS914	67	13	28	55
BS915	67	13	35	54
BS916	67	13	35	56
BS917	67	13	27	55
BS918	67	13	11	27

BS919	67	13	11	35
BS920	67	13	35	51
BS921	67	13	24	56
BS922	54	13	28	51
BS923	67	13	28	51
BS924	67	13	24	56
BS925	54	13	27	55
BS926	67	13	35	56
BS927	57	13	35	56
BS928	57	13	31	51
BS929	67	13	11	28
BS930	67	13	35	51
BS931	67	13	31	54
BS932	57	13	26	43
BS933	67	13	35	51
BS934	67	13	28	51
BS935	54	13	35	54
BS936	67	13	35	56
BS937	67	13	28	55
BS938	57	13	25	35
BS939	67	13	35	56
BS940	67	13	28	51
BS941	67	13	27	51
BS942	57	13	11	30
BS943	67	13	35	56
BS944	67	13	27	55
BS945	57	13	28	51
BS946	67	13	31	51
BS947	57	13	27	52
BS948	67	13	35	51
BS949	67	13	27	52
BS950	67	13	27	55
BS951	67	13	30	54
BS952	67	13	18	43
BS953	67	13	35	54
BS954	67	13	20	43
BS955	67	13	27	51
BS956	67	13	27	55
BS957	57	13	11	35
BS958	67	13	24	54

BS959	57	13	28	54
BS960	67	13	27	58
BS961	67	13	41	51
BS962	67	13	28	51
BS963	67	13	35	51
BS964	67	13	24	35
BS965	67	13	24	51
BS966	67	13	25	35
BS967	54	13	35	56
BS968	57	13	28	51
BS969	57	13	30	56
BS970	67	13	28	55
BS971	67	13	11	35
BS972	67	13	27	51
BS973	57	13	28	51
BS974	67	13	28	55
BS975	67	13	20	35
BS976	67	13	27	51
BS977	67	13	27	51
BS978	67	13	27	52
BS979	67	13	11	27
BS980	57	13	35	56
BS981	57	13	28	51
BS982	67	13	27	52
BS983	67	13	35	56
BS984	57	13	28	51
BS985	67	13	28	55
BS986	67	13	27	45
BS987	67	13	27	51
BS988	67	13	35	56
BS989	67	13	27	55
BS990	67	13	24	56
BS991	67	13	11	35
BS992	57	13	31	51
BS993	67	13	24	51
BS994	57	13	27	51
BS995	67	13	27	51
BS996	67	13	31	56
BS997	67	13	43	56
BS998	67	13	24	54

BS999	57	13	35	56
BS1000	67	13	29	55

Dispersal	Bootstrap (BS)	Origination time (Ma)	Time of the peak (Ma)	Inflection point 1 (Ma)	Inflection point 2 (Ma)
	BS1	67	16	11	51
	BS2	67	17	11	35
	BS3	67	14	23	51
	BS4	67	14	11	35
	BS5	67	14	24	54
	BS6	67	14	30	54
	BS7	57	14	11	43
	BS8	67	14	27	52
	BS9	67	13	28	54
	BS10	67	13	11	35
	BS11	67	13	11	56
	BS12	67	13	11	43
	BS13	67	13	11	35
	BS14	67	13	11	35
	BS15	67	13	11	53
	BS16	67	13	11	35
	BS17	67	13	11	55
	BS18	67	13	35	56
	BS19	67	13	31	46
	BS20	67	15	11	27
	BS21	67	15	11	43
	BS22	67	15	11	51
	BS23	57	15	35	51
	BS24	67	15	27	58
	BS25	67	15	11	28
	BS26	67	15	28	55
	BS27	57	15	27	52
	BS28	67	15	24	40
	BS29	67	15	27	45
	BS30	67	15	27	51
	BS31	67	15	28	51
	BS32	57	15	27	58
	BS33	67	15	11	35
	BS34	67	13	20	35
	BS35	67	13	24	56

BS36	67	13	25	35
BS37	57	13	28	51
BS38	67	13	11	35
BS39	67	13	24	42
BS40	67	13	24	51
BS41	67	13	24	54
BS42	67	13	13	35
BS43	67	13	28	51
BS44	67	13	11	28
BS45	67	13	28	55
BS46	67	13	27	55
BS47	57	13	46	56
BS48	67	13	31	56
BS49	57	13	27	55
BS50	67	13	27	55
BS51	67	13	11	35
BS52	67	13	20	40
BS53	67	13	31	51
BS54	67	13	28	51
BS55	67	13	35	54
BS56	67	13	11	27
BS57	67	13	24	42
BS58	67	13	11	27
BS59	57	13	35	56
BS60	67	13	35	56
BS61	67	13	19	51
BS62	67	13	24	51
BS63	67	13	25	35
BS64	67	13	27	38
BS65	67	13	35	54
BS66	67	13	27	45
BS67	67	13	31	46
BS68	67	13	11	35
BS69	67	13	23	51
BS70	67	13	24	35
BS71	67	13	24	46
BS72	67	13	27	56
BS73	67	13	28	51
BS74	67	13	35	54
BS75	67	13	11	35

BS76	67	13	24	56
BS77	67	13	35	56
BS78	67	13	27	38
BS79	67	13	35	56
BS80	67	13	27	52
BS81	67	13	27	51
BS82	67	13	27	55
BS83	67	13	21	46
BS84	67	13	23	46
BS85	67	13	28	51
BS86	67	13	23	45
BS87	67	13	11	27
BS88	57	13	11	28
BS89	67	13	31	51
BS90	67	13	20	55
BS91	67	13	28	55
BS92	67	13	31	56
BS93	67	13	31	54
BS94	67	13	24	55
BS95	67	13	27	55
BS96	67	13	28	55
BS97	67	13	35	51
BS98	67	13	35	56
BS99	67	13	24	42
BS100	67	13	27	55
BS101	67	13	21	51
BS102	67	13	35	56
BS103	57	13	35	51
BS104	67	13	27	55
BS105	67	13	25	43
BS106	67	13	11	31
BS107	67	13	23	45
BS108	67	13	11	35
BS109	67	13	27	51
BS110	67	13	35	59
BS111	67	13	35	56
BS112	67	13	26	51
BS113	67	13	27	55
BS114	67	13	27	52
BS115	67	13	35	54

BS116	67	13	24	56
BS117	57	13	35	56
BS118	67	13	25	56
BS119	67	13	28	51
BS120	67	13	28	51
BS121	67	13	27	54
BS122	67	13	24	54
BS123	57	13	35	56
BS124	67	13	24	54
BS125	67	13	27	55
BS126	67	13	11	35
BS127	67	13	24	51
BS128	67	13	11	35
BS129	67	13	35	51
BS130	67	13	11	31
BS131	67	13	30	54
BS132	67	13	24	56
BS133	67	13	28	58
BS134	67	13	11	31
BS135	67	14	27	38
BS136	67	14	27	55
BS137	67	14	27	55
BS138	67	14	35	54
BS139	67	14	42	59
BS140	67	14	27	55
BS141	67	14	20	51
BS142	67	14	27	51
BS143	67	14	24	53
BS144	67	14	35	51
BS145	67	14	35	56
BS146	67	14	27	58
BS147	67	14	28	55
BS148	67	14	11	28
BS149	67	14	35	56
BS150	67	14	28	54
BS151	67	14	28	51
BS152	67	14	12	27
BS153	67	14	24	54
BS154	67	14	23	51
BS155	67	14	28	55

BS156	67	14	35	51
BS157	67	14	35	59
BS158	67	14	27	51
BS159	54	14	28	55
BS160	67	14	25	35
BS161	67	14	24	51
BS162	67	14	22	35
BS163	57	14	11	35
BS164	67	14	27	51
BS165	67	14	27	56
BS166	67	14	28	51
BS167	57	14	23	51
BS168	57	14	34	53
BS169	54	14	27	55
BS170	67	14	31	54
BS171	67	14	27	54
BS172	67	14	31	51
BS173	67	14	35	54
BS174	67	14	35	56
BS175	67	14	35	56
BS176	67	14	11	29
BS177	67	14	26	46
BS178	67	14	28	55
BS179	67	14	28	38
BS180	67	14	11	35
BS181	67	14	27	51
BS182	67	14	11	35
BS183	57	14	35	56
BS184	57	14	35	54
BS185	57	14	24	56
BS186	57	14	28	55
BS187	67	14	11	35
BS188	57	14	28	51
BS189	67	14	28	51
BS190	67	14	23	51
BS191	67	14	35	56
BS192	67	14	27	55
BS193	67	14	27	55
BS194	57	14	11	35
BS195	67	14	27	55

BS196	67	14	35	54
BS197	67	13	11	28
BS198	67	13	28	55
BS199	57	13	27	56
BS200	67	13	28	51
BS201	67	13	24	45
BS202	57	13	11	27
BS203	67	13	28	55
BS204	67	13	24	51
BS205	67	13	27	55
BS206	67	13	31	51
BS207	67	13	27	38
BS208	57	13	27	55
BS209	67	13	11	27
BS210	67	13	25	51
BS211	67	13	28	51
BS212	67	13	27	51
BS213	57	13	27	55
BS214	54	13	11	35
BS215	67	13	35	51
BS216	67	13	23	55
BS217	67	13	27	55
BS218	67	13	11	35
BS219	67	13	27	58
BS220	67	13	27	55
BS221	57	13	35	56
BS222	67	13	23	43
BS223	57	13	35	56
BS224	67	13	28	51
BS225	57	13	27	55
BS226	54	13	25	35
BS227	67	13	27	52
BS228	57	13	27	38
BS229	67	13	31	51
BS230	67	13	35	54
BS231	67	13	35	54
BS232	67	13	35	56
BS233	67	13	31	54
BS234	67	13	28	56
BS235	57	13	24	54

BS236	57	13	11	31
BS237	67	13	35	56
BS238	57	13	27	55
BS239	67	13	28	51
BS240	67	13	35	51
BS241	67	13	35	54
BS242	67	13	11	42
BS243	57	13	30	54
BS244	67	13	35	56
BS245	67	13	25	56
BS246	67	13	11	35
BS247	67	13	27	38
BS248	67	13	28	55
BS249	67	13	35	56
BS250	67	13	11	42
BS251	67	13	11	35
BS252	57	13	35	54
BS253	67	13	38	55
BS254	57	13	27	51
BS255	67	13	18	51
BS256	67	13	28	55
BS257	67	13	29	54
BS258	67	13	28	55
BS259	67	13	27	55
BS260	67	13	11	35
BS261	67	13	21	57
BS262	57	13	11	43
BS263	67	13	11	35
BS264	67	13	35	54
BS265	67	13	31	54
BS266	57	13	19	35
BS267	67	13	27	52
BS268	67	13	31	54
BS269	67	13	31	54
BS270	67	13	11	31
BS271	67	13	11	43
BS272	67	13	27	51
BS273	67	13	35	56
BS274	67	13	27	55
BS275	67	13	11	31

BS276	67	13	28	51
BS277	67	13	24	54
BS278	57	13	18	28
BS279	67	13	27	55
BS280	67	13	26	43
BS281	54	13	35	51
BS282	67	13	11	28
BS283	67	13	35	51
BS284	67	13	25	35
BS285	67	13	31	54
BS286	67	13	24	43
BS287	67	13	28	51
BS288	67	13	31	56
BS289	57	13	31	51
BS290	67	13	11	27
BS291	57	13	35	51
BS292	67	13	35	56
BS293	57	13	24	54
BS294	67	13	11	28
BS295	67	13	11	27
BS296	57	13	11	35
BS297	67	13	28	51
BS298	67	13	12	35
BS299	67	13	27	38
BS300	67	13	35	51
BS301	67	13	24	56
BS302	67	13	35	51
BS303	57	13	27	52
BS304	67	13	24	56
BS305	67	13	27	51
BS306	67	13	28	51
BS307	67	13	23	51
BS308	67	13	35	56
BS309	67	13	11	27
BS310	67	13	11	35
BS311	67	13	24	53
BS312	67	13	25	51
BS313	67	13	11	27
BS314	67	13	28	55
BS315	67	13	24	35

BS316	67	13	18	51
BS317	67	13	27	55
BS318	67	13	35	54
BS319	67	13	24	49
BS320	54	13	27	51
BS321	57	13	28	51
BS322	57	13	28	51
BS323	67	13	24	54
BS324	67	13	28	51
BS325	67	13	27	51
BS326	57	13	24	49
BS327	67	13	28	51
BS328	54	13	24	46
BS329	67	13	35	56
BS330	67	13	27	51
BS331	67	13	35	54
BS332	67	13	35	54
BS333	67	13	35	54
BS334	67	13	31	54
BS335	67	13	27	45
BS336	67	13	27	56
BS337	67	13	35	54
BS338	67	13	11	35
BS339	67	13	27	51
BS340	67	13	11	28
BS341	67	13	35	56
BS342	67	13	28	51
BS343	67	13	23	51
BS344	67	13	11	35
BS345	57	13	11	27
BS346	67	13	28	51
BS347	67	13	27	51
BS348	67	13	35	56
BS349	57	13	25	35
BS350	67	13	31	56
BS351	67	13	35	56
BS352	67	13	35	56
BS353	67	13	35	56
BS354	67	13	11	35
BS355	67	13	35	54

BS356	67	13	25	55
BS357	67	13	24	51
BS358	67	13	35	56
BS359	67	13	11	27
BS360	67	13	11	35
BS361	67	13	28	51
BS362	67	13	28	55
BS363	54	13	27	53
BS364	57	13	35	59
BS365	67	13	35	54
BS366	67	13	25	35
BS367	54	13	28	55
BS368	57	13	11	28
BS369	67	13	24	54
BS370	67	13	29	54
BS371	67	13	31	54
BS372	67	13	28	54
BS373	67	13	24	56
BS374	67	13	24	54
BS375	67	13	35	56
BS376	67	13	28	51
BS377	57	13	35	45
BS378	67	13	28	51
BS379	67	13	25	35
BS380	67	13	27	51
BS381	67	13	19	51
BS382	67	13	11	35
BS383	67	13	31	51
BS384	67	13	11	35
BS385	67	13	35	56
BS386	67	13	21	51
BS387	57	13	27	51
BS388	67	13	25	55
BS389	67	13	35	56
BS390	67	13	24	46
BS391	67	13	31	56
BS392	67	13	27	38
BS393	57	13	35	51
BS394	57	13	24	56
BS395	67	13	27	55

BS396	67	13	27	58
BS397	57	13	35	56
BS398	67	13	27	51
BS399	57	13	35	51
BS400	67	13	35	54
BS401	67	13	35	56
BS402	67	13	11	28
BS403	67	13	27	51
BS404	67	13	21	54
BS405	57	13	11	27
BS406	67	13	23	43
BS407	67	13	28	54
BS408	67	13	28	51
BS409	67	13	11	40
BS410	67	13	27	51
BS411	57	13	24	54
BS412	67	13	28	55
BS413	67	13	27	51
BS414	67	13	27	55
BS415	67	13	11	28
BS416	67	13	35	51
BS417	67	13	35	56
BS418	67	13	27	51
BS419	67	13	43	56
BS420	67	13	24	56
BS421	67	13	17	46
BS422	67	13	24	55
BS423	67	13	30	51
BS424	52	13	24	51
BS425	67	13	27	55
BS426	67	13	24	55
BS427	67	13	27	45
BS428	67	13	35	54
BS429	67	13	27	45
BS430	67	13	35	54
BS431	67	13	24	51
BS432	67	13	28	56
BS433	67	13	27	56
BS434	67	13	24	56
BS435	67	13	35	51

BS436	67	13	27	55
BS437	67	13	28	51
BS438	67	13	35	54
BS439	67	13	27	52
BS440	57	13	35	56
BS441	67	13	11	46
BS442	67	13	35	51
BS443	67	13	27	52
BS444	67	13	28	55
BS445	67	13	28	51
BS446	67	13	27	55
BS447	67	13	25	35
BS448	67	13	35	56
BS449	67	13	11	35
BS450	67	13	27	51
BS451	67	13	27	58
BS452	67	13	28	55
BS453	67	13	35	56
BS454	67	13	35	56
BS455	57	13	27	55
BS456	57	13	35	56
BS457	67	13	27	55
BS458	67	13	43	59
BS459	67	13	35	54
BS460	57	13	35	51
BS461	67	13	11	35
BS462	67	13	35	51
BS463	67	13	35	56
BS464	67	13	20	38
BS465	67	13	27	55
BS466	57	13	31	56
BS467	57	13	27	52
BS468	67	13	30	54
BS469	57	13	11	27
BS470	67	13	11	27
BS471	67	13	26	46
BS472	57	13	27	55
BS473	67	13	25	35
BS474	67	13	27	55
BS475	67	13	35	56

BS476	67	13	35	56
BS477	67	13	21	46
BS478	57	13	11	27
BS479	67	13	27	51
BS480	67	13	11	28
BS481	67	13	35	54
BS482	67	13	22	35
BS483	67	13	36	51
BS484	67	13	35	54
BS485	67	13	24	43
BS486	57	13	24	54
BS487	67	13	13	35
BS488	67	13	35	54
BS489	67	13	30	51
BS490	67	13	11	27
BS491	67	13	35	56
BS492	67	13	27	55
BS493	67	13	11	27
BS494	67	13	28	51
BS495	67	13	35	51
BS496	57	13	11	35
BS497	67	13	27	51
BS498	67	13	24	35
BS499	67	13	27	51
BS500	67	13	24	56
BS501	67	13	11	35
BS502	67	13	31	54
BS503	57	13	18	51
BS504	67	13	11	27
BS505	67	13	35	56
BS506	57	13	27	45
BS507	57	13	31	51
BS508	67	13	35	54
BS509	57	13	28	58
BS510	67	13	11	31
BS511	67	13	28	46
BS512	67	13	28	51
BS513	67	13	35	54
BS514	67	13	35	54
BS515	57	13	28	55

BS516	57	13	29	54
BS517	67	13	24	39
BS518	67	13	11	35
BS519	67	13	28	51
BS520	67	13	27	52
BS521	67	13	27	55
BS522	67	13	19	43
BS523	67	13	27	41
BS524	67	13	21	56
BS525	67	13	11	31
BS526	67	13	23	51
BS527	57	13	28	51
BS528	67	13	27	51
BS529	67	13	27	51
BS530	54	13	27	55
BS531	67	13	27	51
BS532	67	13	27	38
BS533	67	13	20	35
BS534	67	13	27	58
BS535	57	13	31	54
BS536	67	13	35	56
BS537	67	13	27	51
BS538	67	13	24	54
BS539	67	13	24	51
BS540	57	13	11	46
BS541	67	13	11	28
BS542	67	13	27	55
BS543	67	13	35	54
BS544	67	13	24	54
BS545	57	13	11	51
BS546	67	13	35	51
BS547	67	13	28	51
BS548	67	13	35	56
BS549	67	13	39	51
BS550	67	13	27	51
BS551	67	13	28	43
BS552	57	13	27	52
BS553	67	13	35	51
BS554	67	13	27	51
BS555	67	13	27	55

BS556	67	13	24	56
BS557	67	13	31	46
BS558	67	13	35	56
BS559	67	13	11	35
BS560	67	13	27	51
BS561	67	13	27	51
BS562	67	13	27	51
BS563	67	13	27	51
BS564	67	13	28	51
BS565	67	13	27	55
BS566	67	13	27	55
BS567	67	13	27	51
BS568	67	13	18	51
BS569	67	13	35	51
BS570	67	13	19	55
BS571	67	13	35	56
BS572	67	13	25	35
BS573	67	13	27	51
BS574	67	13	35	51
BS575	67	13	35	56
BS576	67	13	27	55
BS577	67	13	35	56
BS578	67	13	35	51
BS579	67	13	25	35
BS580	67	13	35	56
BS581	67	13	27	38
BS582	57	13	24	35
BS583	67	13	27	51
BS584	67	13	35	56
BS585	67	13	25	51
BS586	57	13	11	28
BS587	67	13	24	56
BS588	57	13	35	56
BS589	67	13	11	28
BS590	67	13	27	51
BS591	57	13	28	55
BS592	67	13	30	54
BS593	67	13	35	56
BS594	67	13	28	55
BS595	67	13	11	31

BS596	57	13	27	51
BS597	67	13	27	51
BS598	67	13	31	51
BS599	67	13	24	54
BS600	67	13	27	55
BS601	67	13	27	55
BS602	67	13	27	52
BS603	67	13	28	51
BS604	67	13	11	35
BS605	67	13	12	35
BS606	67	13	28	51
BS607	54	13	24	56
BS608	57	13	28	51
BS609	67	13	25	51
BS610	67	14	11	27
BS611	67	14	11	27
BS612	67	14	24	40
BS613	57	14	28	55
BS614	67	14	23	55
BS615	67	14	35	54
BS616	67	14	28	51
BS617	67	14	11	27
BS618	57	14	28	51
BS619	67	14	24	54
BS620	67	14	35	56
BS621	67	14	27	55
BS622	67	14	11	35
BS623	57	14	28	51
BS624	67	14	11	35
BS625	67	14	31	51
BS626	67	14	11	31
BS627	67	14	29	45
BS628	67	14	11	28
BS629	67	14	28	55
BS630	67	14	35	51
BS631	67	14	28	51
BS632	57	14	13	35
BS633	67	14	28	45
BS634	67	14	27	55
BS635	67	14	35	56

BS636	67	14	30	56
BS637	67	14	27	55
BS638	67	14	11	27
BS639	54	14	31	54
BS640	67	14	11	35
BS641	67	14	27	51
BS642	57	14	27	51
BS643	67	14	28	51
BS644	67	14	11	43
BS645	67	14	28	51
BS646	67	14	11	28
BS647	67	14	28	51
BS648	67	14	27	51
BS649	67	14	24	54
BS650	67	14	25	35
BS651	67	14	28	55
BS652	67	14	27	55
BS653	67	14	35	56
BS654	57	14	24	54
BS655	67	14	27	51
BS656	57	14	35	56
BS657	67	14	31	51
BS658	67	14	27	51
BS659	57	14	24	55
BS660	57	14	25	55
BS661	57	14	35	56
BS662	67	14	27	51
BS663	67	14	27	52
BS664	57	14	11	35
BS665	57	14	11	31
BS666	67	14	27	51
BS667	67	14	20	40
BS668	67	14	27	55
BS669	67	14	28	55
BS670	67	14	27	51
BS671	57	14	35	54
BS672	67	14	27	52
BS673	67	14	28	51
BS674	57	14	25	43
BS675	67	14	35	56

BS676	67	14	40	52
BS677	67	14	11	28
BS678	67	14	35	56
BS679	67	14	31	51
BS680	67	14	35	56
BS681	67	14	31	56
BS682	67	14	35	51
BS683	67	14	35	56
BS684	67	14	11	28
BS685	67	14	40	56
BS686	67	14	35	56
BS687	67	14	24	56
BS688	67	14	35	56
BS689	67	14	24	51
BS690	67	14	27	51
BS691	67	14	24	55
BS692	57	14	27	55
BS693	67	14	27	52
BS694	67	14	19	38
BS695	57	14	27	55
BS696	67	14	11	28
BS697	67	14	35	56
BS698	57	14	35	51
BS699	67	14	28	51
BS700	67	14	11	35
BS701	67	14	27	51
BS702	67	14	22	35
BS703	67	14	35	56
BS704	57	14	27	55
BS705	67	14	24	56
BS706	67	14	27	51
BS707	67	14	35	56
BS708	67	14	24	56
BS709	67	14	11	27
BS710	67	14	31	54
BS711	57	14	27	52
BS712	67	14	11	28
BS713	67	14	28	55
BS714	67	14	24	54
BS715	67	14	11	28

BS716	67	14	35	56
BS717	67	14	27	51
BS718	67	14	12	35
BS719	67	14	35	56
BS720	67	14	35	51
BS721	67	14	30	54
BS722	67	14	28	51
BS723	67	14	27	55
BS724	67	14	28	55
BS725	67	14	23	43
BS726	67	14	24	51
BS727	67	14	35	51
BS728	67	14	35	54
BS729	67	14	35	56
BS730	67	14	27	55
BS731	67	14	27	55
BS732	67	14	11	27
BS733	54	14	35	54
BS734	54	14	24	51
BS735	67	14	11	27
BS736	67	14	11	35
BS737	54	14	27	51
BS738	67	14	27	55
BS739	67	14	35	56
BS740	67	14	28	55
BS741	67	14	24	54
BS742	67	14	24	56
BS743	67	14	21	56
BS744	57	14	11	31
BS745	67	14	24	54
BS746	67	14	35	54
BS747	67	14	27	55
BS748	57	14	25	55
BS749	67	14	31	51
BS750	57	14	27	55
BS751	67	14	31	55
BS752	67	14	28	51
BS753	67	14	24	56
BS754	54	14	35	56
BS755	67	14	28	54

BS756	67	14	11	35
BS757	67	14	27	51
BS758	57	14	28	51
BS759	57	14	28	51
BS760	67	14	24	55
BS761	67	14	23	51
BS762	67	14	11	35
BS763	67	14	27	58
BS764	67	14	11	27
BS765	67	14	28	55
BS766	67	14	25	55
BS767	67	14	27	45
BS768	67	14	27	55
BS769	67	14	11	28
BS770	67	14	31	51
BS771	67	14	24	56
BS772	67	14	27	55
BS773	67	14	35	56
BS774	67	14	28	51
BS775	67	14	24	54
BS776	67	14	25	51
BS777	67	14	20	35
BS778	67	14	24	54
BS779	67	14	38	56
BS780	67	14	11	35
BS781	67	14	27	58
BS782	67	14	27	58
BS783	67	14	41	51
BS784	67	14	31	54
BS785	67	14	24	51
BS786	67	14	27	45
BS787	57	14	27	51
BS788	67	14	27	51
BS789	67	14	24	55
BS790	67	14	23	51
BS791	67	14	28	55
BS792	67	14	25	35
BS793	67	14	13	35
BS794	67	14	11	35
BS795	67	14	24	40

BS796	67	14	27	54
BS797	67	14	23	51
BS798	67	14	27	41
BS799	67	14	24	56
BS800	54	14	21	51
BS801	67	14	27	38
BS802	67	14	11	35
BS803	57	14	31	51
BS804	67	14	35	56
BS805	67	14	35	54
BS806	67	14	24	55
BS807	57	14	28	51
BS808	67	14	11	31
BS809	67	14	35	54
BS810	57	14	28	51
BS811	67	14	24	54
BS812	57	14	21	51
BS813	67	14	26	43
BS814	67	14	35	56
BS815	67	14	25	35
BS816	57	14	23	55
BS817	67	14	28	51
BS818	67	14	11	35
BS819	67	14	28	51
BS820	67	14	28	51
BS821	67	14	24	51
BS822	67	14	11	27
BS823	67	14	28	55
BS824	67	14	27	55
BS825	67	14	28	55
BS826	57	14	27	51
BS827	57	14	35	54
BS828	67	14	25	35
BS829	67	14	31	56
BS830	67	14	27	55
BS831	67	14	27	52
BS832	57	14	27	51
BS833	67	14	31	51
BS834	67	14	35	56
BS835	57	14	25	35

BS836	67	14	28	51
BS837	67	14	27	55
BS838	67	14	11	35
BS839	67	14	20	53
BS840	67	14	46	56
BS841	67	14	29	55
BS842	57	14	27	52
BS843	67	14	35	51
BS844	67	14	28	51
BS845	67	14	31	54
BS846	67	14	11	27
BS847	67	14	21	51
BS848	67	14	25	56
BS849	67	14	35	51
BS850	57	14	24	51
BS851	67	14	24	56
BS852	67	14	27	56
BS853	67	14	28	55
BS854	67	14	27	56
BS855	67	14	34	51
BS856	67	14	11	27
BS857	67	14	27	55
BS858	67	14	27	52
BS859	67	14	27	55
BS860	57	14	31	51
BS861	67	14	28	55
BS862	67	14	24	56
BS863	67	14	31	51
BS864	67	14	11	28
BS865	67	14	35	45
BS866	57	14	27	55
BS867	57	14	27	51
BS868	67	14	11	35
BS869	67	14	35	56
BS870	67	14	35	56
BS871	67	14	28	51
BS872	57	14	27	51
BS873	67	14	27	55
BS874	57	14	28	43
BS875	67	14	31	54

BS876	67	14	27	45
BS877	67	14	28	51
BS878	57	14	27	55
BS879	67	14	27	51
BS880	57	14	28	54
BS881	67	14	35	56
BS882	57	14	35	56
BS883	67	14	27	51
BS884	67	14	28	51
BS885	67	14	27	55
BS886	57	14	18	51
BS887	67	14	35	56
BS888	57	14	28	51
BS889	67	14	31	54
BS890	67	14	25	43
BS891	67	14	24	54
BS892	57	14	27	51
BS893	67	14	27	55
BS894	67	14	24	54
BS895	57	14	35	51
BS896	57	14	28	51
BS897	67	14	27	45
BS898	67	14	35	51
BS899	67	14	27	45
BS900	67	14	11	35
BS901	67	14	11	28
BS902	67	14	11	42
BS903	67	14	28	46
BS904	67	14	28	55
BS905	67	14	11	28
BS906	54	14	28	54
BS907	67	14	42	54
BS908	67	14	27	51
BS909	67	14	11	35
BS910	67	14	11	31
BS911	67	14	20	35
BS912	67	14	28	51
BS913	67	14	35	51
BS914	67	14	11	35
BS915	67	14	11	35

BS916	67	14	35	51
BS917	67	14	11	27
BS918	67	14	11	31
BS919	67	14	27	38
BS920	57	14	28	42
BS921	67	14	11	35
BS922	54	14	24	54
BS923	67	14	27	51
BS924	67	14	28	51
BS925	67	14	35	54
BS926	67	14	27	56
BS927	67	14	26	46
BS928	67	14	35	56
BS929	67	14	24	45
BS930	67	14	35	56
BS931	67	14	29	51
BS932	67	14	27	55
BS933	67	14	28	55
BS934	67	14	31	49
BS935	67	14	27	51
BS936	67	14	18	45
BS937	67	14	31	56
BS938	67	14	11	28
BS939	57	14	27	41
BS940	67	14	35	56
BS941	67	14	28	58
BS942	67	14	21	51
BS943	67	14	11	35
BS944	67	14	11	35
BS945	67	14	24	43
BS946	67	14	27	55
BS947	67	14	11	51
BS948	67	14	11	27
BS949	67	14	28	51
BS950	67	14	35	54
BS951	67	14	27	55
BS952	67	14	11	35
BS953	57	14	24	51
BS954	57	14	35	56
BS955	67	14	24	56

BS956	67	14	27	55
BS957	67	14	29	51
BS958	67	14	13	35
BS959	67	14	28	55
BS960	57	14	29	56
BS961	67	14	25	35
BS962	67	14	11	28
BS963	57	14	27	55
BS964	67	14	27	38
BS965	67	14	30	54
BS966	67	14	35	54
BS967	57	14	24	51
BS968	54	14	27	51
BS969	67	14	27	51
BS970	67	14	25	51
BS971	57	14	23	55
BS972	67	14	24	56
BS973	67	14	29	55
BS974	67	14	43	56
BS975	67	14	20	40
BS976	67	14	11	35
BS977	57	14	28	55
BS978	67	14	27	38
BS979	67	14	31	51
BS980	57	14	35	56
BS981	67	14	24	51
BS982	57	14	23	55
BS983	67	14	24	56
BS984	67	14	35	56
BS985	67	14	27	56
BS986	57	14	30	51
BS987	67	14	11	31
BS988	67	14	27	51
BS989	67	14	11	27
BS990	67	14	27	56
BS991	67	14	35	56
BS992	67	14	35	56
BS993	67	14	35	51
BS994	57	14	28	55
BS995	67	14	24	54

BS996	67	14	35	51
BS997	67	14	28	51
BS998	67	14	29	51
BS999	67	14	31	51
BS1000	67	14	35	56

Data S8.

Information of all Himalayan species in our study. Molecular data collected by our study are highlighted by “This study”. “Strict rule” was applied in the analyses shown in the main text, in which “potential Himalayan species” were excluded. “Relax rule” refers to “potential Himalayan species” included.

Class	Family	Species	Source	Strict rule	Relax rule	Notes
Amphibian	Bufo	<i>Bufo gargarizans</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Amphibian	Bufo	<i>Bufoides meghalayanus</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian	Bufo	<i>Bufo baturae</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian	Bufo	<i>Bufo latastii</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian	Bufo	<i>Bufo zamdaensis</i>	This study	Endemic to the Himalaya	Endemic to the Himalaya	

Amphibian Bufonidae	<i>Duttaphrynus himalayanus</i>	This study	Himalaya Endemic to the Himalaya	Himalaya Endemic to the Himalaya	
Amphibian Bufonidae	<i>Duttaphrynus melanostictus</i>	Genbank	Widespread including the Himalaya	Widespread including the Himalaya	Combined with other sequences outside the Himalaya
Amphibian Bufonidae	<i>Duttaphrynus stomaticus</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Amphibian Bufonidae	<i>Duttaphrynus stuarti</i>	This study	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian Bufonidae	<i>Ingerophrynus macrotis</i>	Genbank	Widespread	Widespread	Combined with other

Amphibian Ceratobatrachidae	<i>Liurana alpina</i>	Genbank	including the Himalaya	including the Himalaya	sequences outside the Himalaya
Amphibian Ceratobatrachidae	<i>Liurana medogensis</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian Ceratobatrachidae	<i>Liurana valleculea</i>	This study	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian Ceratobatrachidae	<i>Liurana xizangensis</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian Dicroglossidae	<i>Euphlyctis cyanophlyctis</i>	Genbank	Widespread	Widespread	Combined with other sequences outside the Himalaya

Amphibian Dicroglossidae	<i>Euphlyctis hexadactylus</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Amphibian Dicroglossidae	<i>Hoplobatrachus crassus</i>	Genbank	Widespread including the Himalaya	Widespread including the Himalaya	Combined with other sequences outside the Himalaya
Amphibian Dicroglossidae	<i>Hoplobatrachus tigerinus</i>	Genbank	Widespread including the Himalaya	Widespread including the Himalaya	Combined with other sequences outside the Himalaya
Amphibian Dicroglossidae	<i>Ingerana borealis</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian Dicroglossidae	<i>Minervarya pierrei</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	

Amphibian Dicroglossidae	<i>Minervarya syhadrensis</i>	Genbank	Himalaya Not in the Himalaya	Himalaya Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Amphibian Dicroglossidae	<i>Nanorana arnoldi</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian Dicroglossidae	<i>Nanorana blanfordii</i>	This study	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian Dicroglossidae	<i>Nanorana chayuensis</i>	This study	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian Dicroglossidae	<i>Nanorana conaensis</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	

Amphibian Dicroglossidae	<i>Nanorana liebigii</i>	This study	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian Dicroglossidae	<i>Nanorana medogensis</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian Dicroglossidae	<i>Nanorana parkeri</i>	Genbank	Widespread including the Himalaya	Widespread including the Himalaya	
Amphibian Dicroglossidae	<i>Nanorana polunini</i>	This study	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian Dicroglossidae	<i>Nanorana rostandi</i>	This study	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian Dicroglossidae	<i>Occidozyga lima</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so

				Himalaya	the Himalayan distribution is problematic
Amphibian Dicroglossidae	<i>Sphaerotheca breviceps</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Amphibian Dicroglossidae	<i>Sphaerotheca rolandae</i>	Genbank	Widespread including the Himalaya	Widespread including the Himalaya	
Amphibian Megophryidae	<i>Leptobrachium bompu</i>	This study	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian Megophryidae	<i>Leptobrachium smithi</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so

				Himalaya	the Himalayan distribution is problematic
Amphibian Megophryidae	<i>Megophrys ancaea</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian Megophryidae	<i>Megophrys flavipunctata</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian Megophryidae	<i>Megophrys glandulosa</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Amphibian Megophryidae	<i>Megophrys himalayana</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian Megophryidae	<i>Megophrys major</i>	Genbank	Widespread	Widespread	Combined with other

			including the Himalaya	including the Himalaya	sequences outside the Himalaya
Amphibian Megophryidae	Megophrys medogensis	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian Megophryidae	Megophrys megacephala	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian Megophryidae	Megophrys oreocrypta	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian Megophryidae	Megophrys oropedion	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian Megophryidae	Megophrys pachyproctus	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	

Amphibian Megophryidae	<i>Megophrys parva</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Amphibian Megophryidae	<i>Megophrys periosa</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian Megophryidae	<i>Megophrys robusta</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian Megophryidae	<i>Megophrys serchhipii</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian Megophryidae	<i>Megophrys vegrandis</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian Megophryidae	<i>Megophrys wuliangshanensis</i>	Genbank	Not in the Himalaya	Widespread	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic

			Himalaya	including the Himalaya	Himalaya provided ever, so the Himalayan distribution is problematic
Amphibian Megophryidae	Megophrys zhangi	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian Megophryidae	Megophrys zunhebotensis	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
			Widespread	Widespread	
Amphibian Megophryidae	Scutiger boulengeri	Genbank	including the Himalaya	including the Himalaya	
				Widespread	No sequences in the
Amphibian Megophryidae	Scutiger mammatus	Genbank	Not in the Himalaya	including the Himalaya	Himalaya provided ever, so the Himalayan distribution

is problematic

Amphibian Megophryidae	Scutiger nepalensis	Genbank	Endemic to the Himalaya	Endemic to the Himalaya
Amphibian Megophryidae	Scutiger nyingchiensis	This study	Endemic to the Himalaya	Endemic to the Himalaya
Amphibian Megophryidae	Scutiger occidentalis	Genbank	Endemic to the Himalaya	Endemic to the Himalaya
Amphibian Megophryidae	Scutiger sikkimensis	Genbank	Endemic to the Himalaya	Endemic to the Himalaya
Amphibian Megophryidae	Scutiger spinosus	Genbank	Endemic to the Himalaya	Endemic to the Himalaya
Amphibian Megophryidae	Scutiger wuguanfui	This study	Endemic to the Himalaya	Endemic to the Himalaya

Amphibian Ranidae	<i>Amolops aniqiaoensis</i>	This study	Himalaya Endemic to the Himalaya	Himalaya Endemic to the Himalaya
Amphibian Ranidae	<i>Amolops chayuensis</i>	This study	Himalaya Endemic to the Himalaya	Himalaya Endemic to the Himalaya
Amphibian Ranidae	<i>Amolops medogensis</i>	This study	Himalaya Endemic to the Himalaya	Himalaya Endemic to the Himalaya
Amphibian Ranidae	<i>Amolops nyingchiensis</i>	This study	Himalaya Endemic to the Himalaya	Himalaya Endemic to the Himalaya
Amphibian Ranidae	<i>Amolops beibengensis</i>	This study	Himalaya Endemic to the Himalaya	Himalaya Endemic to the Himalaya
Amphibian Ranidae	<i>Amolops deng</i>	This study	Endemic to the	Endemic to the

Amphibian Ranidae	<i>Amolops gyirongensis</i>	This study	Himalaya Endemic to the Himalaya	Himalaya Endemic to the Himalaya	
Amphibian Ranidae	<i>Amolops</i> sp	This study	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian Ranidae	<i>Amolops wangyufani</i>	This study	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian Ranidae	<i>Amolops yarlungzangbo</i>	This study	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian Ranidae	<i>Amolops viridimaculatus</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic

Amphibian Ranidae	<i>Clinotarsus alticola</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian Ranidae	<i>Humerana humeralis</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian Ranidae	<i>Hydrophylax leptoglossa</i>	Genbank	Widespread including the Himalaya	Widespread including the Himalaya	Combined with other sequences outside the Himalaya
Amphibian Ranidae	<i>Hylarana tytleri</i>	Genbank	Widespread including the Himalaya	Widespread including the Himalaya	
Amphibian Ranidae	<i>Odorrana andersonii</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution

Amphibian Ranidae	<i>Odorrana chloronota</i>	Genbank	Widespread including the Himalaya	Widespread including the Himalaya	Combined with other sequences outside the Himalaya
Amphibian Ranidae	<i>Odorrana livida</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Amphibian Ranidae	<i>Sylvirana nigrovittata</i>	Genbank	Widespread including the Himalaya	Widespread including the Himalaya	Combined with other sequences outside the Himalaya
Amphibian Rhacophoridae	<i>Chiromantis doriae</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so

Amphibian Rhacophoridae	<i>Chiromantis nongkhorensis</i>	Genbank	Not in the Himalaya	Himalaya	the Himalayan distribution is problematic
Amphibian Rhacophoridae	<i>Chiromantis nongkhorensis</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Amphibian Rhacophoridae	<i>Feihyla vittata</i>	This study	Widespread including the Himalaya	Widespread including the Himalaya	Combined with other sequences outside the Himalaya
Amphibian Rhacophoridae	<i>Gracixalus medogensis</i>	This study	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian Rhacophoridae	<i>Kurixalus appendiculatus</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so

				Himalaya	the Himalayan distribution is problematic
Amphibian Rhacophoridae	Kurixalus naso	This study	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian Rhacophoridae	Nasutixalus jerdonii	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian Rhacophoridae	Nasutixalus medogensis	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian Rhacophoridae	Polypedates leucomystax	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Amphibian Rhacophoridae	Polypedates maculatus	Genbank	Not in the Himalaya	Widespread	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic

			Himalaya	including the Himalaya	Himalaya provided ever, so the Himalayan distribution is problematic
Amphibian Rhacophoridae	Polypedates megacephalus	This study	Widespread including the Himalaya	Widespread including the Himalaya	Combined with other sequences outside the Himalaya
Amphibian Rhacophoridae	Polypedates teraiensis	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian Rhacophoridae	Raorchestes parvulus	This study	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Amphibian Rhacophoridae	Rhacophorus bipunctatus	This study	Widespread	Widespread	

			including the Himalaya	including the Himalaya	
			Widespread	Widespread	
Amphibian Rhacophoridae	Rhacophorus burmanus	This study	including the Himalaya	including the Himalaya	
Amphibian Rhacophoridae	Rhacophorus rhodopus	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Amphibian Rhacophoridae	Rhacophorus smaragdinus	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian Rhacophoridae	Rhacophorus translineatus	This study	Endemic to the Himalaya	Endemic to the Himalaya	

Amphibian	Rhacophoridae	Rhacophorus tuberculatus	This study	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian	Rhacophoridae	Theلودerma baibungense	This study	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian	Rhacophoridae	Theلودerma moloch	This study	Endemic to the Himalaya	Endemic to the Himalaya	
Amphibian	Rhacophoridae	Theلودerma pyaukkya	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Agamidae	Calotes emma	Genbank	Not in the Himalaya	Widespread including the Himalaya	
Reptile	Agamidae	Calotes jerdoni	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so

					Himalaya	the Himalayan distribution is problematic
Reptile	Agamidae	Calotes medogensis	This study	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Agamidae	Calotes minor	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Reptile	Agamidae	Calotes mystaceus	Genbank	Not in the Himalaya	Widespread including the Himalaya	
Reptile	Agamidae	Calotes versicolor	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so

					Himalaya	the Himalayan distribution is problematic
Reptile	Agamidae	<i>Cristidorsa otai</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Agamidae	<i>Cristidorsa planidorsata</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Agamidae	<i>Draco maculatus</i>	Genbank	Widespread including the Himalaya	Widespread including the Himalaya	Combined with other sequences outside the Himalaya
Reptile	Agamidae	<i>Japalura andersoniana</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Agamidae	<i>Japalura kumaonensis</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	

Reptile	Agamidae	<i>Japalura tricarinata</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Agamidae	<i>Japalura variegata</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Agamidae	<i>Laudakia melanura</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Reptile	Agamidae	<i>Laudakia papenfussi</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Agamidae	<i>Laudakia tuberculata</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Agamidae	<i>Laudakia wui</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	

Reptile	Agamidae	<i>Paralaudakia himalayana</i>	Genbank	Himalaya Not in the Himalaya	Himalaya Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Reptile	Agamidae	<i>Phrynocephalus reticulatus</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Reptile	Agamidae	<i>Phrynocephalus theobaldi</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Agamidae	<i>Pseudocalotes austeniana</i>	This study	Endemic to the Himalaya	Endemic to the Himalaya	

Reptile	Agamidae	<i>Ptyctolaemus gularis</i>	This study	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Agamidae	<i>Sitana ponticeriana</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Reptile	Agamidae	<i>Sitana sivalensis</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Anguidae	<i>Dopasia gracilis</i>	This study	Widespread including the Himalaya	Widespread including the Himalaya	Combined with other sequences outside the Himalaya
Reptile	Colubridae	<i>Ahaetulla nasuta</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so

Reptile	Colubridae	<i>Ahaetulla prasina</i>	Genbank	Not in the Himalaya	Himalaya	the Himalayan distribution is problematic
Reptile	Colubridae	<i>Amphiesma stolatum</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Reptile	Colubridae	<i>Archelaphe bella</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution

Reptile	Colubridae	<i>Boiga forsteni</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Reptile	Colubridae	<i>Boiga trigonata</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Reptile	Colubridae	<i>Calamaria pavementata</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic

Reptile	Colubridae	Coelognathus helena	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Reptile	Colubridae	Coelognathus radiatus	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Reptile	Colubridae	Dendrelaphis cyanochloris	This study	Widespread including the Himalaya	Widespread including the Himalaya	
Reptile	Colubridae	Dendrelaphis pictus	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so

					Himalaya	the Himalayan distribution is problematic
Reptile	Colubridae	<i>Elaphe cantoris</i>	This study	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Colubridae	<i>Elaphe hodgsoni</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Colubridae	<i>Elaphe taeniura</i>	Genbank	Widespread including the Himalaya	Widespread including the Himalaya	Combined with other sequences outside the Himalaya
Reptile	Colubridae	<i>Fowlea flavipunctatus</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic

Reptile	Colubridae	<i>Fowlea piscator</i>	Genbank	Widespread including the Himalaya	Widespread including the Himalaya	Combined with other sequences outside the Himalaya
Reptile	Colubridae	<i>Fowlea schnurrenbergeri</i>	Genbank	Widespread including the Himalaya	Widespread including the Himalaya	
Reptile	Colubridae	<i>Gonyosoma frenatum</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Reptile	Colubridae	<i>Gonyosoma prasinum</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution

						is problematic
Reptile	Colubridae	<i>Hebius parallelum</i>	This study	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Colubridae	<i>Herpetoreas burbrinki</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Colubridae	<i>Herpetoreas platyceps</i>	This study	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Colubridae	<i>Lycodon aulicus</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Reptile	Colubridae	<i>Lycodon fasciatus</i>	This study	Widespread including the	Widespread including the	

				Himalaya	Himalaya	
				Widespread	Widespread	
Reptile	Colubridae	<i>Lycodon jara</i>	Genbank	including the Himalaya	including the Himalaya	
				Widespread	Widespread	
Reptile	Colubridae	<i>Lycodon septentrionalis</i>	This study	including the Himalaya	including the Himalaya	
				Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Colubridae	<i>Lycodon zawi</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
					Widespread	No sequences in the
Reptile	Colubridae	<i>Oligodon cinereus</i>	Genbank	Not in the Himalaya	including the Himalaya	Himalaya provided ever, so the Himalayan distribution is problematic

Reptile	Colubridae	<i>Oligodon cyclurus</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Reptile	Colubridae	<i>Oligodon lipipengi</i>	This study	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Colubridae	<i>Oligodon theobaldi</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Reptile	Colubridae	<i>Oligodon torquatus</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Colubridae	<i>Oreocryptophis porphyraceus</i>	Genbank	Widespread	Widespread	Combined with other

				including the Himalaya	including the Himalaya	sequences outside the Himalaya
				Widespread	Widespread	Combined with other
Reptile	Colubridae	Pseudoxenodon macrops	Genbank	including the Himalaya	including the Himalaya	sequences outside the Himalaya
					Widespread	
Reptile	Colubridae	Ptyas korros	Genbank	Not in the Himalaya	including the Himalaya	
				Widespread	Widespread	Combined with other
Reptile	Colubridae	Ptyas mucosa	Genbank	including the Himalaya	including the Himalaya	sequences outside the Himalaya
				Widespread	Widespread	
Reptile	Colubridae	Ptyas nigromarginata	This study	including the	including the	

Reptile	Colubridae	<i>Rhabdophis himalayanus</i>	Genbank	Himalaya Endemic to the Himalaya	Himalaya Endemic to the Himalaya	
Reptile	Colubridae	<i>Rhabdophis leonardi</i>	This study	Widespread including the Himalaya	Widespread including the Himalaya	
Reptile	Colubridae	<i>Rhabdophis nuchalis</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Reptile	Colubridae	<i>Rhabdophis subminiatus</i>	Genbank	Widespread including the Himalaya	Widespread including the Himalaya	Combined with other sequences outside the Himalaya

Reptile	Colubridae	<i>Sibynophis collaris</i>	Genbank	Widespread including the Himalaya	Widespread including the Himalaya	Combined with other sequences outside the Himalaya
Reptile	Colubridae	<i>Trachischium guentheri</i>	This study	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Colubridae	<i>Trachischium monticola</i>	This study	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Colubridae	<i>Trachischium tenuiceps</i>	This study	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Elapidae	<i>Bungarus bungaroides</i>	Genbank	Widespread including the Himalaya	Widespread including the Himalaya	
Reptile	Elapidae	<i>Bungarus caeruleus</i>	Genbank	Widespread	Widespread	

Reptile	Elapidae	Bungarus fasciatus	Genbank	including the Himalaya	including the Himalaya	Widespread	
Reptile	Elapidae	Bungarus niger	Genbank	Not in the Himalaya	including the Himalaya	Endemic to the Himalaya	
Reptile	Elapidae	Naja kaouthia	This study	Endemic to the Himalaya	Endemic to the Himalaya	Widespread	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Reptile	Elapidae	Naja naja	Genbank	Widespread including the Himalaya	Widespread including the Himalaya	Widespread	Combined with other sequences outside the Himalaya

				Himalaya	Himalaya	Himalaya
				Widespread	Widespread	
Reptile	Elapidae	<i>Ophiophagus hannah</i>	Genbank	including the Himalaya	including the Himalaya	
					Widespread	No sequences in the
Reptile	Elapidae	<i>Sinomicrurus macclellandi</i>	Genbank	Not in the Himalaya	including the Himalaya	Himalaya provided ever, so the Himalayan distribution is problematic
Reptile	Gekkonidae	<i>Altiphylax levitoni</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Gekkonidae	<i>Altiphylax medogensis</i>	This study	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Gekkonidae	<i>Altiphylax stolickzai</i>	Genbank	Widespread	Widespread	

				including the Himalaya	including the Himalaya	
				Widespread	Widespread	Combined with other
Reptile	Gekkonidae	<i>Cyrtodactylus ayeyarwadyensis</i>	Genbank	including the Himalaya	including the Himalaya	sequences outside the Himalaya
Reptile	Gekkonidae	<i>Cyrtodactylus battalensis</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Gekkonidae	<i>Cyrtodactylus cayuensis</i>	This study	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Gekkonidae	<i>Cyrtodactylus chamba</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Gekkonidae	<i>Cyrtodactylus fasciolatus</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	

Reptile	Gekkonidae	<i>Cyrtodactylus gubernatoris</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya
Reptile	Gekkonidae	<i>Cyrtodactylus guwahatiensis</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya
Reptile	Gekkonidae	<i>Cyrtodactylus himalayanus</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya
Reptile	Gekkonidae	<i>Cyrtodactylus jaintiaensis</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya
Reptile	Gekkonidae	<i>Cyrtodactylus kazirangaensis</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya
Reptile	Gekkonidae	<i>Cyrtodactylus khasiensis</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya

Reptile	Gekkonidae	<i>Cyrtodactylus lawderanus</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Gekkonidae	<i>Cyrtodactylus montanus</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Gekkonidae	<i>Cyrtodactylus nagalandensis</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Gekkonidae	<i>Cyrtodactylus russelli</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Gekkonidae	<i>Cyrtodactylus septentrionalis</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Gekkonidae	<i>Cyrtodactylus</i> sp CHNG	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	Insights into Himalayan biogeography from geckos: A molecular

Reptile	Gekkonidae	Cyrtodactylus sp Glow	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	phylogeny of Cyrtodactylus (Squamata: Gekkonidae) Insights into Himalayan biogeography from geckos: A molecular phylogeny of Cyrtodactylus (Squamata: Gekkonidae) Insights into Himalayan biogeography from geckos:
Reptile	Gekkonidae	Cyrtodactylus sp Khellong	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	A molecular phylogeny of Cyrtodactylus (Squamata: Gekkonidae) Insights into Himalayan biogeography from geckos:
Reptile	Gekkonidae	Cyrtodactylus sp Mizoram	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	Insights into Himalayan biogeography from geckos:

				Himalaya	Himalaya	biogeography from geckos: A molecular phylogeny of <i>Cyrtodactylus</i> (Squamata: Gekkonidae) Insights into Himalayan biogeography from geckos:
Reptile	Gekkonidae	<i>Cyrtodactylus</i> sp Sikkim	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	A molecular phylogeny of <i>Cyrtodactylus</i> (Squamata: Gekkonidae)
Reptile	Gekkonidae	<i>Cyrtodactylus</i> tibetanus	This study	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Gekkonidae	<i>Cyrtodactylus</i> tripuraensis	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	

Reptile	Gekkonidae	<i>Cyrtodactylus zhaoermii</i>	This study	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Gekkonidae	<i>Cyrtopodion aravallensis</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Gekkonidae	<i>Cyrtopodion mansarulus</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Gekkonidae	<i>Cyrtopodion scabrum</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Reptile	Gekkonidae	<i>Gekko gecko</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution

Reptile	Gekkonidae	<i>Hemidactylus aquilonius</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Reptile	Gekkonidae	<i>Hemidactylus bowringii</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Reptile	Gekkonidae	<i>Hemidactylus brookii</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic

Reptile	Gekkonidae	<i>Hemidactylus flaviviridis</i>	Genbank	Widespread including the Himalaya	Widespread including the Himalaya	
Reptile	Gekkonidae	<i>Hemidactylus frenatus</i>	Genbank	Widespread including the Himalaya	Widespread including the Himalaya	Combined with other sequences outside the Himalaya
Reptile	Gekkonidae	<i>Hemidactylus garnotii</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Reptile	Gekkonidae	<i>Hemidactylus imbricatus</i>	Genbank	Widespread including the Himalaya	Widespread including the Himalaya	

Reptile	Gekkonidae	Hemidactylus platyurus	This study	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Reptile	Gekkonidae	Hemiphyllodactylus zayuensis	This study	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Gekkonidae	Hemiphyllodactylus yunnanensis	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Reptile	Pareidae	Pareas monticola	This study	Widespread including the Himalaya	Widespread including the Himalaya	

Reptile	Scincidae	<i>Ablepharus pannonicus</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Reptile	Scincidae	<i>Asymblepharus nyingchiensis</i>	This study	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Scincidae	<i>Asymblepharus</i> sp	This study	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Scincidae	<i>Asymblepharus medogensis</i>	This study	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Scincidae	<i>Eumeces schneiderii</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution

Reptile	Scincidae	<i>Eurylepis taeniolata</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Reptile	Scincidae	<i>Eutropis carinata</i>	Genbank	Widespread including the Himalaya	Widespread including the Himalaya	Combined with other sequences outside the Himalaya
Reptile	Scincidae	<i>Eutropis dissimilis</i>	Genbank	Widespread including the Himalaya	Widespread including the Himalaya	
Reptile	Scincidae	<i>Eutropis macularia</i>	Genbank	Widespread including the Himalaya	Widespread including the Himalaya	Combined with other sequences outside the Himalaya

				Himalaya	Himalaya	Himalaya
				Widespread	Widespread	Combined with other
Reptile	Scincidae	<i>Eutropis multifasciata</i>	Genbank	including the	including the	sequences outside the
				Himalaya	Himalaya	Himalaya
				Widespread	Widespread	Combined with other
Reptile	Scincidae	<i>Lygosoma albopunctatum</i>	Genbank	including the	including the	sequences outside the
				Himalaya	Himalaya	Himalaya
					Widespread	No sequences in the
Reptile	Scincidae	<i>Lygosoma lineolatum</i>	Genbank	Not in the	including the	Himalaya provided ever, so
				Himalaya	Himalaya	the Himalayan distribution
						is problematic
Reptile	Scincidae	<i>Lygosoma punctata</i>	Genbank	Not in the	Widespread	
				Himalaya	including the	

					Himalaya	
				Widespread	Widespread	
Reptile	Scincidae	<i>Scincella doriae</i>	This study	including the Himalaya	including the Himalaya	
						No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Reptile	Scincidae	<i>Scincella reevesii</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	
						Combined with other sequences outside the Himalaya
Reptile	Scincidae	<i>Sphenomorphus indicus</i>	Genbank	Widespread including the Himalaya	Widespread including the Himalaya	
Reptile	Scincidae	<i>Sphenomorphus maculatus</i>	This study	Widespread including the Himalaya	Widespread including the Himalaya	

Reptile	Viperidae	<i>Azemiops feae</i>	Genbank	Himalaya Not in the Himalaya	Himalaya Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Reptile	Viperidae	<i>Echis carinatus</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Reptile	Viperidae	<i>Ovophis makazayazaya</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic

Reptile	Viperidae	<i>Ovophis monticola</i>	This study	Widespread including the Himalaya	Widespread including the Himalaya
Reptile	Viperidae	<i>Ovophis zayuensis</i>	This study	Endemic to the Himalaya	Endemic to the Himalaya
Reptile	Viperidae	<i>Protobothrops himalayanus</i>	This study	Endemic to the Himalaya	Endemic to the Himalaya
Reptile	Viperidae	<i>Protobothrops jerdonii</i>	This study	Widespread including the Himalaya	Widespread including the Himalaya
Reptile	Viperidae	<i>Protobothrops kaulbacki</i>	Genbank	Widespread including the Himalaya	Widespread including the Himalaya

Reptile	Viperidae	<i>Protobothrops mucrosquamatus</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Reptile	Viperidae	<i>Trimeresurus albolabris</i>	Genbank	Widespread including the Himalaya	Widespread including the Himalaya	Combined with other sequences outside the Himalaya
Reptile	Viperidae	<i>Trimeresurus erythrurus</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Reptile	Viperidae	<i>Trimeresurus medoensis</i>	This study	Endemic to the Himalaya	Endemic to the Himalaya	

Reptile	Viperidae	<i>Trimeresurus popeiorum</i>	Genbank	Widespread including the Himalaya	Widespread including the Himalaya	Combined with other sequences outside the Himalaya
Reptile	Viperidae	<i>Trimeresurus purpureomaculatus</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic
Reptile	Viperidae	<i>Trimeresurus septentrionalis</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Viperidae	<i>Trimeresurus stejnegeri</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic

Reptile	Viperidae	<i>Trimeresurus tibetanus</i>	Genbank	Endemic to the Himalaya	Endemic to the Himalaya	
Reptile	Viperidae	<i>Trimeresurus yunnanensis</i>	Genbank	Not in the Himalaya	Widespread including the Himalaya	No sequences in the Himalaya provided ever, so the Himalayan distribution is problematic

References

1. Xing Y and Ree RH. Uplift-driven diversification in the Hengduan Mountains, a temperate biodiversity hotspot. *Proceedings of the National Academy of Sciences* 2017; **114**: E3444–E34.
2. Sambrook J, Fritsch EF and Maniatis T. *Molecular cloning: a laboratory manual*. New York: Cold spring harbor laboratory press, 1989.
3. Kumar S, Stecher G and Li M *et al.* MEGA X: molecular evolutionary genetics analysis across computing platforms. *Molecular Biology and Evolution* 2018; **35**: 1547–49.
4. Vaidya G, Lohman DJ and Meier R. SequenceMatrix: concatenation software for the fast assembly of multi-gene datasets with character set and codon information. *Cladistics* 2011; **27**: 171–80.
5. Nguyen LT, Schmidt HA and von Haeseler A *et al.* IQ-TREE: a fast and effective stochastic algorithm for estimating maximum-likelihood phylogenies. *Molecular Biology and Evolution* 2014; **32**: 268–74.
6. Trifinopoulos J, Nguyen LT and von Haeseler A *et al.* W-IQ-TREE: a fast online phylogenetic tool for maximum likelihood analysis. *Nucleic Acids Research* 2016; **44**: W232–W5.
7. Kalyaanamoorthy S, Minh BQ and Wong TKF *et al.* ModelFinder: fast model selection for accurate phylogenetic estimates. *Nature Methods* 2017; **14**: 587.
8. Minh BQ, Nguyen MAT and von Haeseler A. Ultrafast approximation for phylogenetic bootstrap. *Molecular Biology and Evolution* 2013; **30**: 1188–95.
9. Hoang DT, Chernomor O and von Haeseler A *et al.* UFBoot2: improving the ultrafast bootstrap approximation. *Molecular Biology and Evolution* 2017; **35**: 518–22.
10. Anisimova M and Gascuel O. Approximate likelihood-ratio test for branches: a fast, accurate, and powerful alternative. *Systematic Biology* 2006; **55**: 539–52.
11. Guindon S, Dufayard JF and Lefort V *et al.* New algorithms and methods to estimate maximum-likelihood phylogenies: assessing the performance of PhyML 3.0. *Systematic Biology* 2010; **59**: 307–21.
12. Wilcox TP, Zwicky DJ and Heath TA *et al.* Phylogenetic relationships of the dwarf boas and a comparison of Bayesian and bootstrap measures of phylogenetic support. *Molecular Phylogenetics and Evolution* 2002; **25**: 361–71.

13. Yang Z. PAML 4: phylogenetic analysis by maximum likelihood. *Molecular Biology and Evolution* 2007; **24**: 1586–91.
14. Feng YJ, Blackburn DC and Liang D *et al.* Phylogenomics reveals rapid, simultaneous diversification of three major clades of Gondwanan frogs at the Cretaceous–Paleogene boundary. *Proceedings of the National Academy of Sciences* 2017; **114**: E5864–E70.
15. Zheng Y and Wiens JJ. Combining phylogenomic and supermatrix approaches, and a time-calibrated phylogeny for squamate reptiles (lizards and snakes) based on 52 genes and 4162 species. *Molecular Phylogenetics and Evolution* 2016; **94**: 537–47.
16. Brown JW and Smith SA. The Past Sure is Tense: On Interpreting Phylogenetic Divergence Time Estimates. *Systematic Biology* 2018; **67**: 340–53.
17. R Core Team. *R: A language and environment for statistical computing*. <https://www.R-project.org>.
18. H. Wickham H. *ggplot2: Elegant Graphics for Data Analysis*. <https://ggplot2.tidyverse.org>.
19. Boos WR and Kuang Z. Dominant control of the South Asian monsoon by orographic insulation versus plateau heating. *Nature* 2010; **463**: 218–23.
20. Ding L, Spicer RA and Yang J *et al.* Quantifying the rise of the Himalaya orogen and implications for the South Asian monsoon. *Geology* 2017; **45**: 215–8.
21. Spicer RA, Tao S and Valdes PJ *et al.* Why the ‘Uplift of the Tibetan Plateau’ is a myth. *National Science Review* 2020; **0**: 1–19.
22. Matzke NJ. Probabilistic historical biogeography: new models for founder event speciation, imperfect detection, and fossils allow improved accuracy and model-testing. *Frontiers of Biogeography* 2013; **5**: 242–8.
23. Yu Y, Harris AJ and Blair C *et al.* RASP (Reconstruct Ancestral State in Phylogenies): a tool for historical biogeography. *Molecular Phylogenetics and Evolution* 2015; **87**: 46–9.
24. Jønsson KA and Holt BG. Islands contribute disproportionately high amounts of evolutionary diversity in passerine birds. *Nature Communications* 2015; **6**: 8538.
25. Klaus S, Morley RJ and Plath M *et al.* Biotic interchange between the Indian subcontinent and mainland Asia through time. *Nature Communications* 2016; **7**: 12132.
26. Székely GJ and Rizzo ML. Hierarchical clustering via joint between-within distances. Extending Ward’s minimum variance method. *Journal of Classification* 2005; **22**: 151–83.

27. Rizzo ML and Székely GJ. DISCO analysis: a nonparametric extension of analysis of variance. *Annals of Applied Probability* 2010; **4**: 1034–55.
28. James NA and Matteson DS. ecp: An R package for nonparametric multiple change point analysis of multivariate data. *Journal of Statistical Software* 2014; **62**: 1–25.
29. Suchard MA, Lemey P and Baele G *et al.* Bayesian phylogenetic and phylodynamic data integration using BEAST 1.10. *Virus Evolution* 2018; **4**: vey016.
30. Lanfear R, Frandsen PB and Wright AM *et al.* PartitionFinder 2: New Methods for Selecting Partitioned Models of Evolution for Molecular and Morphological Phylogenetic Analyses. *Molecular Biology & Evolution* 2016; **34**: 772–3.
31. Rambaut A, Drummond AJ and Xie D *et al.* Posterior summarisation in Bayesian phylogenetics using Tracer 1.7. *Systematic Biology* 2018; **5**: 5.
32. Rambaut A and Drummond AJ. *TreeAnnotator* 1.4.5. <http://beastbioedacuk/TreeAnnotator>.
33. Bossuyt F and Milinkovitch MC. Convergent adaptive radiations in Madagascan and Asian ranid frogs reveal covariation between larval and adult traits. *Proceedings of the National Academy of Sciences* 2000; **97**: 6585–90.
34. Stuart BL, Inger RF and Voris HK. High level of cryptic species diversity revealed by sympatric lineages of Southeast Asian forest frogs. *Biology Letters* 2006; **2**: 470–4.
35. Bossuyt F and Dubois A. A review of the frog genus *Philautus* Gistel, 1848 (Amphibia, Anura, Ranidae, Rhacophorinae). *Zeylanica* 2001; **6**: 1–112.
36. Stuart BL. The phylogenetic problem of *Huia* (Amphibia: Ranidae). *Molecular Phylogenetics and Evolution* 2008; **46**: 49–60.
37. Goebel AM, Donnelly JM and Atz ME. PCR primers and amplification methods for 12S ribosomal DNA, the control region, cytochrome oxidase I, and cytochrome b in bufonids and other frogs, and an overview of PCR primers which have amplified DNA in amphibians successfully. *Molecular Phylogenetic Evolution* 1999; **11**: 163–99.
38. Macey JR, Schulte JA and Larson A *et al.* Phylogenetic relationships of toads in the *Bufo bufo* species group from the eastern escarpment of the Tibetan Plateau: a case of vicariance and dispersal. *Molecular Phylogenetics and Evolution* 1998; **9**: 80–7.

39. Macey JR, Larson A and Ananjeva NB *et al.* Two novel gene orders and the role of light-strand replication in rearrangement of the vertebrate mitochondrial genome. *Molecular Biology and Evolution* 1997; **14**: 91–104.
40. Che J, Chen HM and Yang JX *et al.* Universal COI primers for DNA barcoding amphibians. *Molecular Ecology Resources* 2012; **12**: 247–58.
41. Li R, Chen W and Tu L *et al.* Rivers as barriers for high elevation amphibians: a phylogeographic analysis of the alpine stream frog of the Hengduan Mountains. *Journal of Zoology* 2009; **277**: 309–16.
42. Burbrink FT, Lawson R and Slowinski JB. Mitochondrial DNA phylogeography of the polytypic North American rat snake (*Elaphe obsoleta*): a critique of the subspecies concept. *Evolution* 2000; **54**: 2107–18.
43. Arévalo SK and Davis JW. Sites Mitochondrial-DNA sequence divergence and phylogenetic-relationships among 8 chromosome races of the *Sceloporus grammicus* complex (Phrynosomatidae) in central Mexico. *Systematic Biology* 1994; **43**: 387–418.
44. R Lawson, Slowinski JB and Crother BI *et al.* Phylogeny of the Colubroidea (Serpentes): New evidence from mitochondrial and nuclear genes. *Molecular Phylogenetics and Evolution* 2005; **37**: 581–601.
45. Macey J and Schulte J. Molecular Phylogenetics, tRNA Evolution, and Historical Biogeography in Anguid Lizards and Related Taxonomic Families. *Molecular Phylogenetics and Evolution* 1999; **12**: 250–72.
46. Linkem CW, Diesmos AC and Brown RM. A new species of scincid lizards (Genus: *Sphenomorphus*) from Palawan Island, Philippines. *Herpetologica* 2010; **66**: 67–79.
47. Whiting AS, Bauer AM and Sites JW. Phylogenetic relationships and limb loss in sub-Saharan African scincine lizards (Squamata: Scincidae). *Molecular Phylogenetics and Evolution* 2003; **29**: 582–98.
48. Bauer AM, de Silva A and Greenbaum E *et al.* A new species of day gecko from high elevation in Sri Lanka, with a preliminary phylogeny of Sri Lankan *Cnemaspis* (Reptilia: Squamata: Gekkonidae). *Mitteilungen aus dem Museum für Naturkunde in Berlin. Zoologische Reihe* 2007; **83**: 22–32.

49. Rage JC and Roček Z. Evolution of anuran assemblages in the Tertiary and Quaternary of Europe, in the context of palaeoclimate and palaeogeography. *Amphibia-Reptilia* 2003; **24**: 133–67.
50. Böhme M. The oldest representative of a brown frog [Ranidae] from the Early Miocene of Germany. *Acta Palaeontologica Polonica* 2001; **46**: 119–24.
51. Voorhies M, Holman JA and Xue XX. The Hottell Ranch rhino quarries (basal Ogallala; medial Barstovian), Banner County, Nebraska; Part I; Geologic setting, faunal lists, lower vertebrates. *Rocky Mountain Geology* 1987; **25**: 55–69.
52. Holman JA. Early Miocene anurans from Florida. *Quarterly Journal of the Florida Academy of Sciences* 1965; **28**: 68–82.
53. Holman JA. Additional Miocene anurans from Florida. *Quarterly Journal of the Florida Academy of Sciences* 1967; **30**: 121–40.
54. Hoffstetter R. Un Serpent terrestre dans le Crétacé inférieur du Sahara. A terrestrial snake in the Lower Cretaceous of the Sahara. *Bulletin de la Société Géologique de France* 1960; **7**: 897–902.
55. Colston TJ, Grazziotin FG and Shepard DB *et al.* Molecular systematics and historical biogeography of tree boas (*Corallus* spp.). *Molecular Phylogenetics and Evolution* 2013; **66**: 953–9.
56. Wüster W, Peppin L and Pook CE *et al.* A nesting of vipers: phylogeny and historical biogeography of the Viperidae (Squamata: Serpentes). *Molecular Phylogenetics and Evolution* 2008; **49**: 445–59.
57. Báez AM and Nicoli L. Bufonid toads from the Late Oligocene beds of Salla Bolivia. *Journal of Vertebrate Paleontology* 2004; **24**: 73–9.
58. Sanchíz B. Salientia. In: Wellnhofer P (ed.). *Handbuch der Paläoherpetologie*. Verlag Dr. Friedrich Pfeil, Munich, 1998, 1–275.
59. Roček Z and Rage JC. Tertiary Anura of Africa, Asia, Europe, North America, and Australia. In: Heatwole HF and Carroll RL (eds.). *Amphibian biology*. Chipping Norton, Australia, Surrey Beatty & Sons, 2000, 1334–89.
60. M. Böhme. The Miocene climatic optimum: Evidence from ectothermic vertebrates of Central Europe. *Palaeogeography, Palaeoclimatology, Palaeoecology* 2003, **195**: 389–401.

61. Mahony S, Foley NM and Biju SD *et al.* Evolutionary History of the Asian Horned Frogs (Megophryinae): Integrative Approaches to Timetree Dating in the Absence of a Fossil Record. *Molecular Biology and Evolution* 2017; **34**: 744–71.
62. Estes R. New fossil pelobatid frogs and a review of the genus *Eopelobates*. *Bulletin of the Museum of Comparative Zoology* 1970; **139**: 293–339.
63. Henrici AC, Baez AM and Grande L. *Aerugoamnis paulus*, new genus and new species (Anura: Anomocoela): first reported anuran from the Early Eocene (Wasatchian) Fossil Butte Member of the Green River Formation, Wyoming. *Annals of Carnegie Museum* 2013; **81**: 295–309.
64. Rocek Z, Wuttke M and Gardner JD *et al.* The Euro-American genus *Eopelobates*, and a re-definition of the family Pelobatidae (Amphibia, Anura). *Palaeobiodiversity and Palaeoenvironments* 2014; **94**: 529–67.
65. Gilmore W. Fossil lizards of North America. *Memoirs of the National Academy of Sciences* 1928; **22**: 1–201.
66. Vasilyan D, Böhme M and Klembara J. First record of fossil *Ophisaurus* (Anguimorpha, Anguidae) from Asia. *Journal of Vertebrate Paleontology* 2016; **36**: e1219739.
67. Scarpetta S. The earliest known occurrence of *Elgaria* (Squamata: Anguidae) and a minimum age for crown Gerrhonotinae: Fossils from the Split Rock Formation, Wyoming, USA. *Palaeontologia Electronica* 2018; **21**: 1–8.
68. Townsend TM, Mulcahy DG and Noonan BP *et al.* Phylogeny of iguanian lizards inferred from 29 nuclear loci, and a comparison of concatenated and species-tree approaches for an ancient, rapid radiation. *Molecular Phylogenetics and Evolution* 2011; **61**: 363–80.
69. Yatkola DA. Mid-Miocene lizards from western Nebraska. *Copeia* 1976; **1976**: 645–54.
70. Smith KT. A diverse new assemblage of late Eocene squamates (Reptilia) from the Chadron Formation of North Dakota, U.S.A. *Palaeontologia Electronica* 2006; **9**: 1–44.
71. Iturralde-Vinent MA and MacPhee RDE. Age and paleogeographical origin of Dominican amber. *Science* 1996; **273**: 1850–2.
72. Estes R. The fossil record and early distribution of lizards. In: Rhodin A and Miyata K (eds.). *Advances in Herpetology and Evolutionary Biology. Essays in Honor of Ernest E. Williams*. Museum of Comparative Zoology, 1983, 365–98.

73. Schulte JA and Moreno-Roark F. Live birth among iguanian lizards predates Pliocene–Pleistocene glaciations. *Biology Letters* 2010; **6**: 216–8.
74. Hou LH. New materials of Palaeocene lizards of Anhui. *Certebrata Palasiatica* 1976; **14**: 45–52.
75. Auge M. Revision du lezard *Uromastix* europeus (Reptilia, Lacertilia) de l’ Oligocene français. Analyse fonctionnelle de l’ appareil masticateur de genre *Uromastix* et implications paleoecologiques. *Revue de Paléobiologie* 1988; **7**: 317–25.
76. Covacevich J, Couper P and Molnar RE *et al.* Miocene dragons from Riversleigh: new data on the history of the family Agamidae (Reptilia: Squamata) in Australia. *Memoires of the Queensland Museum* 1990; **29**: 339–60.
77. Conrad JL and Norell MA. A complete Late Cretaceous iguanian (Squamata, Reptilia) from the Gobi and identification of a new iguanian clade. *American Museum Novitates* 2007; **2007**: 1–47.
78. Bauer AM, Böhme W and Weitschat W. An Early Eocene gecko from Baltic amber and its implications for the evolution of gecko adhesion. *Journal of Zoology* 2005; **265**: 327–32.
79. Estes R. A scincoid lizard from the Cretaceous and Paleocene of Montana. *Breviora* 1969; **331**: 1–9.
80. Bryant LJ. *Non-dinosaurian lower vertebrates across the Cretaceous–Tertiary boundary in northeastern Montana*. Berkeley: University of California Press, 1989, 1–107.
81. Krause DW, Evans SE and Gao KQ. First definitive record of Mesozoic lizards from Madagascar. *Journal of Vertebrate Paleontology* 2003; **23**: 842–56.
82. Agarwal I, Bauer AM and Jackman TR *et al.* Insights into Himalayan biogeography from geckos: A molecular phylogeny of *Cyrtodactylus* (Squamata: Gekkonidae). *Molecular Phylogenetics and Evolution* 2014; **80**: 145–55.
83. Heinicke MP, Greenbaum E and Jackman TR *et al.* Phylogeny of a trans-Wallacean radiation (Squamata, Gekkonidae, *Gehyra*) supports a single early colonization of Australia. *Zoologica Scripta* 2011; **40**: 584–602.
84. Arnold EN and Poinar G. A 100 million year old gecko with sophisticated adhesive toe pads, preserved in amber from Myanmar. *Zootaxa* 2008; **1847**: 62–8.