

Materials and Methods

Sampling

Field surveys were carried out over eight years at 354 localities in Sri Lanka and over 1400 specimens of the direct-developing taxa were collected. All specimens collected during the field surveys are housed in the collections of the Wildlife Heritage Trust, Sri Lanka.

Species definition and diagnosis

We used a general lineage concept of species (1) whereby species are diagnosed as independent evolutionary lineages using multiple criteria. Our criteria for recognizing species are differentiation in 1) morphological, 2) ecological, 3) genetic and 4) call (bioacoustic) characters. The species we recognized were groups of populations that differed primarily in morphology and ecology. We have examined mtDNA variation from about half the species and call variation from a smaller subset of c. 20 species.

Morphological characters (Table 1) include those that have proven useful in the taxonomy of Asian rhacophorines (2,3) and particularly within the genus *Philautus* (2). Call characteristics include fundamental frequency, and syllable structure analyzed from digitized recordings using the program Canary v1.2.1 LC (Cornell Laboratory of Ornithology). Ecological characters include elevational range, vegetation type, microhabitat, feeding and breeding behavior, and life history traits. Genetic divergence was assessed through phylogenetic analysis of DNA sequence from the mitochondrial 12S and 16S ribosomal RNA genes as detailed below.

A total of 1586 specimens were examined, with detailed measurements taken from 415. Comparative material, including all available type specimens for Sri Lankan taxa, was examined in the collections of The Natural History Museum, London (BMNH), Museum of Comparative Zoology, Cambridge, MA (MCZ), Museum National d'Histoire Naturelle, Paris (MNHN), Naturhistorisches Museum, Basel (NHMB), Wildlife Heritage Trust of Sri Lanka, Colombo (WHT), Zoologisches Museum, Berlin (ZMB), and Zoological Survey of India, Calcutta (ZSI).

DNA Extraction, PCR, Sequencing and Sequence Alignment

Total genomic DNA was extracted from ethanol preserved tissues using Qiagen extraction kits and manufacturer's protocols. Mitochondrial 12S and 16S rRNA gene fragments were amplified using standard PCR conditions and primers 12Sa and 12Sb (4) which amplified c. 380bp of the 12S rRNA gene, and 16Sar and 16Sbr (4) which amplified c. 550bp of the 16S rRNA gene. Products were gel purified and sequenced on an ABI 377 automated sequencer following manufacturer's recommendations. Sequences are available in Genbank (Accession numbers AY141761 – AY141852) and also in the dataset appended below.

Previously published sequences were obtained from Genbank for the following taxa: *Aglyptodactylus madagascariensis* AF026341-12S, AF026358-16S; *Boophis tephraeomystax* AF026344-12S, AF026360-16S; *Buergeria japonica* AF118475-12S, AF026369-16S; *Chirixalus eiffingeri* AF026346-12S, AF026363-16S; *Chiromantis xerampelina* U22082-12S, AF026361-16S; *Chiromantis sp.* AF026345-12S, AF026362-16S; *Mantella aurantiaca* X86243-12S, X86311-16S; *Mantella sp.* AF026353-12S, AF026372-16S; *Mantidactylus grandidieri* AF026352-12S, AF026371-16S; *Philautus*

mjobergi AF026348-12S, AF026365-16S; *Philautus petersi* AF026349-12S, AF026366-16S; *Polypedates leucomystax* AF026351-12S, AF026368-16S; *Polypedates megacephala* AF026350-12S, AF026367-16S; *Rhacophorus arboreus* AF118476-12S, AF026379-16S; *Rhacophorus moltrechti* AF118477-12S, AF026378-16S; *Theلودerma corticale* AF268254-12S, AF268256-16S. Sequences were aligned using Clustal X (5) and adjusted by eye. Those positions which were difficult to align and in which we had low confidence in positional homology were excluded from subsequent analyses. The final data set contained 802 nucleotide positions.

Phylogenetic Analysis

We used Bayesian inference as implemented in the program MrBayes (6) to estimate the evolutionary relationships among taxa and to estimate the parameters of a general time-reversible model of sequence evolution with gamma distributed rate variation among sites and a proportion of invariant sites. MrBayes uses a Metropolis-coupled Markov chain Monte Carlo (MCMCMC) simulation approach to estimate posterior probabilities of tree topology, branch lengths and substitution model parameters. We ran four MCMCMC chains for 500,000 generations and the summed likelihood of the four chains converged on a stationary value by 100,000 generations. We used the frequency of clades in trees (sampled every ten generations) from the last 250,000 generations as estimates of the posterior probabilities of those clades (7). As a check on the outcome of the Bayesian analysis, we used the nucleotide substitution parameters estimated by MrBayes [Rate matrix: $R(GT) = 1$, $R(CT) = 59.7671837$, $R(CG) = 0.603136482$, $R(AT) = 5.691836598$, $R(AG) = 18.62094484$, $R(AC) = 6.073235727$. Nucleotide frequency: A = 0.338029071, C = 0.218808701, G = 0.172398825, T =

0.270763438. Rate variation: shape parameter for gamma distributed rate variation among sites (alpha) = 0.599192679; proportion of invariant sites = 0.346313712] and conducted a tree search in PAUP* v.4.0b8 (8) under a maximum likelihood criterion. The identical tree topology was recovered, although branch length estimates differed slightly.

We also analyzed the data using a parsimony criterion with all characters unordered and weighted equally. The bootstrap analysis under these conditions revealed little support for relationships except for the clades noted in Figure 1.

Tests of alternative topologies compared the likelihood values of the maximum likelihood tree and alternative topologies using the Shimodaira-Hasegawa tree comparison statistic with full optimization in a one-tailed test as implemented in PAUP* (8). These tests revealed that the data could not reject hypotheses of sister relationship between the Sri Lankan / Indian clade and the clades represented by the genera *Rhacophorus*, *Philautus*, *Chirixalus*, *Chiromantis*, or *Polypedates*.

The dataset used for all analyses is appended below. The command lines included at the bottom of the data set implement our analysis upon execution of the data file in MrBayes, and set the parameters for the tree search using the likelihood criterion in PAUP*.

Table 1. Morphological characters used in species diagnosis.

Mensural characters

Distance between posterior angle of eyes

Distance between anterior angle of eyes

Length of disk of third finger, taken from anterior edge of circumferential groove to posterior edge of basal groove

Width of disk of third finger, including both inner and outer edges of circumferential groove

Horizontal diameter of eye

Distance between anteriormost point of eye and middle of nostril

Distance between anteriormost point of eye and tip of snout

Distance between vent and knee with both thigh and shank flexed

Finger length: distance between posterior margin of most proximal subarticular tubercle or crease of articulation and tip of disc

Distance between heel and tip of fourth toe with both foot and shank flexed

Distance between angle of jaws and snout tip

Head width, measured across angle of jaws

Inner metatarsal length

Internarial distance, least distance between the inner margins of nostrils

Inter-orbital width, least distance between the upper margins of orbit

Lower arm length: elbow to posteriormost margin of inner palmar tubercle

Distance between angle of jaws and posteriormost point of eye

Distance between angle of jaws and anteriormost point of eye

Distance between angle of jaws and middle of nostril

Distance between middle of nostril and tip of snout

Distance from posteriormost margin of inner palmar tubercle to tip of disc of third finger

Snout-vent length, measured from tip of snout to vent

Shank (tibia) length: distance between knee and heel with both shank and foot flexed

Toe length: distance between posterior margin of most proximal subarticular tubercle or crease of articulation and tip of disc

Distance between anteriormost point of inner margin of inner rim of tympanum and posteriormost point of eye

Maximum tympanum diameter: distance between widest points of inner rim of tympanum

distance between axilla and elbow

Upper eyelid width: measured from bony edges of supraorbital to outer edge of upper eyelid

Discrete / Descriptive Characters

Extent of webbing on hind toes

Extent of webbing on fore toes

Shape of snout

Presence / absence and distribution of granules on body

Presence / absence of lingual papilla

Shape of tympanum

Presence / absence and location of dermal fringes

Presence / absence and location of dermal folds

Iris color and pattern

References

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4. S. R. Palumbi, in *Molecular Systematics*, D. M. Hillis, C. Moritz, B. K. Mable, Eds. (Sinauer Associates Inc., Sunderland, MA, 1996) pp. 205-248.
5. F. Jeanmougin *et al.*, *Trends Biochem. Sci.*, **23**, 403 (1998).
6. J. P. Huelsenbeck, F. Ronquist, *Bioinformatics*, **17**, 754 (2001).
7. J. P. Huelsenbeck, F. Ronquist, R. Neilsen, J. P. Bollback, *Science*, **294**, 2310 (2001).
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Dataset from Meegaskumbura et al. 2002

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GAAGGATTTAGTAGTAAATAAGGAATAGAGAGCCTTATTTAAATCTAG--
CCCTGGGGTG

Philautus_femoralis_WHT2779 GCCAAGACGTAAAA----TTAA-
TCCACACC-ACC---AAACGCCAGGGT-ATTACGAGCTT--
AGCTTAAAACCCAAAGGACTTGACGGTA-CCCCATCC--
AACTAGAGGAGCCTGTTCTATAATCGATAACCC-----
ACGATATACCCGACCATTTCTTGCCAT----
CAGCCTGTATACCTCCGTCGTAAGCCTACCATGTGAACGCACAAC-AGTG-
GGCCAAA-GGCTA---
AGCACCACAACGTCAGGTCAAGGTGCAGCCTATGAAATGGAA-
GCAATGGGCTACAATCTCTAATCT-AGAA-CAA-CAAAGTACTACATGAAA-
TA-
TAGTTACAAAGAAGGATTTAGCAGTAAATAAGGAATAGAGAGCCTTATTAAA
TCTAG--CCCTGGGGTG
WHT2786 GCCAAGACGTAAA-----TTAA-CCCACACCCAC--
--AAACGCCAGGGT-ATTACGAGCTCT-
AGCTTAAAACCCAAAGGACTTGACGGTA-CTCCACCC--
AACTAGAGGAGCCTGTTCTGTAATCGATAACCC-----
ACGATATACCCGACCATTTCTTGCCCTT----
CAGCCTGTATACCTCCGTCGTAAGCCTACCATGTGAACGCACAAT-AGTA-
AGCCCGAA-GGTTA---
AACGCCACAACGTCAGGTCAAGGTGCAGCCTATGAAATGGAA-
GCAATGGGCTACAATTTCTAACCT-AGAA-TAAA-CAAATACTATGTGAAA-
TA-
TAGCTACAAAGAAGGATTTAGTAGTAAATAAGGAATAGAGAGCCTTATTAAA
CCTAG--CCCTGGAGTA

WHT2792 GCCAAGACGTAAAA-----TAA-CTCACAC--ACT--
-AAACGCCAGGGT-ATTACGAGCTTT-
AGCTTAAAACCCAAAGGACTTGACGGTA-CCCCACCC--
AACTAGAGGAGCCTGTTCTATAATCGACAACCC-----
ACGATATACCCGACCATTTCTTGCCTC----
CAGCCTGTATACCTCCGTCGTAAGCCTACCTTGTAACGCACAAT-AGTA-
GGCCCAA-AGGCTA---
AACGCCACAACGTCAGGTCAAGGTGCAGCTTATGAAATGGAA-
GCAATGGGCTACAATTTCTAACCT-AGGA-CAAG-CCAAACACTATATGAAA-
TA-CGGTTACAA-
GAAGGATTTAGTAGTAAATAAGAAATAGAGAGCCTTATTAAACCCAG--
CCCTGGGGTG
WHT2797 GCCAAGACGTAAAA---CCTAA-TTACAC--
ATT---AAACGCCAGGAT-ATTACGAGCTTT-
AGCTTAAAATCCAAAGGACTTGACGGTA-CCCCGCCT--
AACTAGAGGAGCCTGTTCTATAATCGATAACCC-----
ACGATACACCTAACCATCTCTTGCCC-----
CAGCCTGTATACCTCCGTCGTAAGCTTACCTTGGAATGCAT----AGTG-
GGCCCAA-AGCCT---
AACACCCAAACGTCAGGTCAAGGTGCAGCCCATGAAATGGAA-
GCAATGGGCTACAATTTCTAACCT-AGAA-TAAA-CAGAACACTACATGAAA-
TA-
TAGTTATAAAGGTGGATTTAGTAGTAAATAGGGAATAGAGAGCCCTATTAA
CCAAA--CCCCGGAGTA

WHT_H12 GCCAAGACGTAAAA---TTAA-CTCACACC-AC-
---AAACGCCTGGGT-ATTACGAGCTT--
AGCTTAAAACCCAAAGGACTTGACGGTA-CCCCACCC--
AACTAGAGGAGCCTGTTCTGTAATCGATAACCC-----
ACGATATACCCGACCATTTCTTGCCTT----
CAGCCTGTATACCTCCGTCGTAAGCTTACCATGTGAACGCACAAC-AGTA-
GGCATAAA-GGCTAT--
AACGCCATAACGTCAGGTCAAGGTGCAGCCTATGAAATGGAA-
GCAATGGGCTACAATTTCTAACAT-AGAA-CAAA-CAAATACCATATGAAA-
CA-
CAGCTACAAAGAAGGATTTAGTAGTAAATAAGGAATAGAGAGCCTTATTAAA
CCTAG--CCCTGGGGTA

WHT_H15 GCCAAGACGTAAAA---TTAA-CTCACACC-AC-
---AAACGCCTGGGT-ATTACGAGCTT--
AGCTTAAAACCCAAAGGACTTGACGGTA-CCCCACCC--
AACTAGAGGAGCCTGTTCTGTAATCGATAACCC-----
ACGATATACCCGACCATTTCTTGCCTT----
CAGCCTGTATACCTCCGTCGTAAGCTTACCATGTGAACGCACAAC-AGTA-
GGCATAAA-GGCTAT--
AACGCCATAACGTCAGGTCAAGGTGCAGCCTATGAAATGGAA-
GCAATGGGCTACAATTTCTAACAT-AGAA-CAAA-CAAATACCATATGAAA-
CA-
CAGCTACAAAGAAGGATTTAGTAGTAAATAAGGAATAGAGAGCCTTATTAAA
CCTAG--CCCTGGGGTA

WHT_H11 GCCAAAACGTAAAA----TTAA-CTCACCCCC-
TCC--CCACGCCAGGGC-ATTACGAGCCT--
AGCTTAAAACCCAAAGGACTTGACGGTA-CCCTACCA--
GACTAGAGGAGCCTGTTCTATAATCGATAATCC-----
ACGCTATACCCGACCATTTTTTGCCT----
CAGCCTGTATACCTCCGTCGTAAGCCTACCATATGAACGCTCAAC-AGTA-
AGCCTAAA-GGCTC---
ACCGCCACAACGTCAGGTCAAGGTGCAGCTCATGAAATGGAA-
GCAATGGGCTACAATTTCTAATCT-AGAA-CAA-CAAAACACTATGTGAAA-
TA-TAGT-
ATAAAGAAGGATTTAGCAGTAAATAAGGAATAGAGAGCCTTATTCAATCCGG
--CCCTAGGGTG
Philautus_charius_FB GCCAAGCCGTAAA----TCCAA-CTCACACT--
CC---AAACGCCAGGGT-ATTACGAGCTTT-
AGCTTAAAACCCAAAGGACTTGACGGTA-CCCCACCT--
A ACTAGAGGAGCCTGTTCTATAATCGATAATCC-----
ACGATTCACCTAACCCTTCTTGCTTT----
CAGCCCGTATACCTCCGTCGTAAGCTTACTATATGAATATCTAAT-AGTG-
AGCTAAAA-GGCCAC--
CACACCATAACGTCAGGTCAAGGTGCAGCTTATGAAGTGGGA-
GTAATGGGCTACAATTTCTAACCT-AGAA-CAA-CGAAATACTCTATGAAA-
CA-
CAGTCACGAAGGAGGATTTAGCAGTAAATAAGAAATAGAGAGCCTTATTA
CTCGG--CCCTGGGGTG

Philautus_signatus_FB

NNNNNGCCATAAAAAA-TCCA--

CTCACACC--CCC--AAGCGCCCGGGT-ATTACGAGCTTC-

AGCTTAAAACCCAAAGGACTTGACGGTA-TCCACCT--

AACTAGAGGAGCCTGTTCTATAACCGATGATCC-----

ACGATACACCTAACCATTTCTTGCTTT----

CAGCCTGTATACCTCCGTCGTAAGCTTACTATGTGAATATATAAT-AGTG-

AGCTAGAA-GGCC----

ACCACCATAACGTCAGGTCAAGGTGCAGCTTACGAAATGGAA-

GCAATGGGCTACAATTTCTAATTT-AGAA-TAAA-CGAAATACTATATGAAA-

TA-

TAGTCATAAAGGAGGATTTAGTAGTAAATAAGAAATAGAGAGCCTTATTAAA

CTCGG--CCCTGGGATG

Philautus_wynaadensis_FB

GCCAAGAAGTAAA----TCCA--

CTTACACC-ACC----AACGCCAGGAT-

ATTACGAGCTTCTAGCTTAAAACCCAAAGGACTTGACGGTA-CCCCACCC--

TACTAGAGGAGCCTGTTCTATAATCGATAACCC-----

ACGATATACCAAACCATTTCTTGCCT-----

CAGCCTGTATACCTCCGTCGTAAGCTTACCCTGTGAATGCAC-AT-AGTA-

GGCTCAA-AGCCT---

AACACCCAAACGTCAGGTCAAGGTGCAGCCTATGAAATGGAA-GC-

ATGGGCTACAATTTCTAATCTTAGAA-CTAATCAAATACTACATGAAA-TA-

TAGTTATAAAGAAGGATTTAGCAGTAAATAAGGAATAGAGAGCCTTATTGAA

TCTGAG-CTCTGGGGTA

Fejervarya_syhadrensis_WHT2665 GCTTAGCCGTAAAATA--TTAA-
CTCACA---ACTAT-AAGCGCCTGGGA-ATTACGGGCTA--
AGCCTAAAACCCAAAGGACTTGACGGTG-TCCCACCC--
AACTAGAGGAGCCTGTTCTATAATCGATAACCC-----
CCGTAAACCTGACCTCTCTTTGCTTTCT--
CAGCCTGTATACCTCCGTCGTAAATTCACCCTGTGAATGCCAAAT-
AGTGTGATTCAAT-GCCCCT---
TCGCCAAAACGTCAGGTCAAGGTGCAGCCTATAGAGAGGGAAGTGATGGGCT
ACAATTTCTAACCT-AGAA-CAAA-CGGATTACTATATGAAA-TT-
CAATTATGAAGGAGGATTTAGTAGTAAAGAGAAATTAATGAGTTCTCTTTAA
CATGG--CCCTGGGACG

Nannophrys_marmoratus_WHT2664 GTCTAGCCGTAAAACA--TCAA-
CCCACATTTACT----AGCGCCAGGGG-ACTACGAGCCTC-
AGCTTAAAACCCAAAGGACTTGACGGTG-ACCCACCC--
GACTAGAGGAGCCTGTTCTACAACCGATGATCC-----
CCGTTATACCCAACCCCCCTTGCTTTAT--
CAGCCTGTATACCTCCGTCGTAAACTCACCATATGAATGCCTTCCAAGTG-
GGTTCAAT-GTTTTATT-
ACACCAATACGTCAGGTCAAGGTGCAGCCCATGGTGAGGTGAGCAATGGGCT
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CAGTCATGAAGGAGGATCTAGTAGTAAAGAGAAAATAGCGAGTTCTTTTTAA
TACGG--CCCTGGGACA

Polypedates_cruciger_WHT2640 GCCAAACCGTAAA-----
TTAAACTTACACC-A--A--AAACGCCAGGGT-ACTACGAGCCT--

AGCTTAAAACCCAAAGGATTTGACGGTG-TTCCACCC--
AACTAGAGGAGCCTGTTCTATAATCGATGATCC-----
ACGATACACCTAACCATTTTTTTGCTACT---
CAGCCTGTATACCTCCGTCGCAAGCTTACCATTTGAGTGAGGAGA-AGTA-
AGCACAAG-GACTT---
AGAGCCAACACGTCAGGTCAAGGTGCAGCTCATAAAATGGAA-
GAAATGGGCTACAATTTCTAATTT-AGAA-CAA-CGAATTATTATATGAAA-
CA-
AAATCATGAAGGTGGATTTAGCAGTAAGCAGGGAATAGAGAGCCCCGCTTAA
TCTGG--CCATGGAACG

Polypedates_eques_WHT2714 GCCAAACTGTAAA----TCTAAA-
TTACAC--AC-A--AAACGCCAGGGT-ATTACGAGCCTC-
AGCTTAAAACCCAAAGGACTTGACGGTG-TCTCATCC--
AACTAGAGGAGCCTGTTCTATAATCGATATCAC-----
ACGATATATCCAACCATTTTTTTGCAAAT---
CAGTTTGTATACCTCCGTCGTAAGCTTACCATATGAATGAAACAG-AGTG-
GGCCAAAG-GACTCC---
GCGCCAAAACGTCAGGTCAAGGTGCAGCTTATAAAATGGAA-
GAAATGGGCTACAATTTCTATATT-AGAA-CAA-CGAATTACCTAATGAAA-
CA-
AGGTCATGAAGGTGGATTTAGTAGTAAGTAATGAATAATGAGCCTTACTTAA
TTTGG--CCATGAGACG

Polypedates_eques_WHT2741 GCCAAACTGTAAA----TCTAAA-
TTACAC--AC-A--AAACGCCAGGGT-ATTACGAGCCTC-

AGCTTAAAACCCAAAGGACTTGACGGTG-TCTCATCC--
AACTAGAGGAGCCTGTTCTATAATCGATACCAC-----
ACGATATATCCAACCATTTTTTTGCAAAT---
CAGTTTGTATACCTCCGTCGTAAGCTTACCATATGAATGAAACAG-AGTG-
GGCCAAAG-GACTCC---
GCGCCAAAACGTCAGGTCAAGGTGCAGCTTATAAAATGGAA-
GAAATGGGCTACAATTTCTATATT-AGAA-CAA-CGAATTACCTAATGAAA-
CA-
AGGTCATGAAGGTGGATTTAGTAGTAAGTAATGAATAATGAGCCTTACTTAA
TTTGG--CCATGAGACG

Polypedates_fastigo_WHT2783 GCCAAACTGTAAA----CCTAAA-
TTACAT--AC-A--AAACGCCAGGGT-ATTACGAGCCTC-
AGCTTAAAACCCAAAGGACTTGACGGTG-TCTCATCC--
AACTAGAGGAGCCTGTTCTATAATCGATACCAC-----
ACGATATACCCAACCATTTTTTTGCAAAT---
CAGTTTGTATACCTCCGTCGTAAGCTTACCATATGAATGAAGCAG-AGTG-
GGCTAAAG-GACTTC---
ACGCCAAAACGTCAGGTCAAGGTGCAGCTTATAAAATGGAA-
GAAATGGGCTACAATTTCTAGATT-AGAA-CAA-CGAATTACTCAATGAAA-
CA-
AGGTCATGAAGGTGGATTTAGTAGTAAGTAAAGAATAATACACCTTACTTAA
TTTGG--CCATGAGACG

Polypedates_leucomystax_ZRC.1.5269 GCCATACCATAAAA---TTTCA--
CTTACACTTA-----AAACGCCAGGGT-ACTACGAGCCCC--

GCTTAAAACCCAAAGGATTTGACGGTG-TTCCACCC--
AACTAGAGGAGCCTGTTCTATAATCGACAATCC-----
ACGATCTACCTAACCATTTTTTTGCTACT---
CAGCCCGTATACCTCCGTCGTAAGCTTATCATTGGAATGAGGAAA-AGTA-
AGCACAA--GGACTA--
AAAGCCAAAACGTCAGGTCAAGGTGCAGCTTATAAAATGGAA-
GAAATGAGCTACAATTTCTAATTT-AGAA-CACA-CGAATTACTGCATGAAA-
CA-
AAGTCATGAAGGTGGATTTAGCAGTAAGTAAGGAATAGAGAGCCTTACTTAA
TTTGG--CCCTGGAACG

Polypedates_leucomystax_Genbank NNNNNACCATAAA---TTTCA--
CTTACACTTA-----AAACGCCAGGGT-ACTACGAGCCCC--
GCTTAAAACCCAAAGGATTTGACGGTG-TTCCACCC--
AACTAGAGGAGCCTGTTCTATAATCGATAATCC-----
ACGATCTACCTAACCATTTTTTTGTTACT---
CAGCCTGTATACCTCCGTCGTAAGCTTATCATTGGAATGAGAAAA-AGTA-
AGCACAA--GGACTA--
AAAGCCAAAACGTCAGGTCAAGGTGCAGCTTATAAAATGGAA-
GAAATGAGCTACAATTTCTAATTT-AGAA-CACA-CGAATTACTGCATGAAA-
CA-
AAGTCATGAAGGTGGATTTAGCAGTAAGTAAGGAATAGAGAGCCTTACTTAA
TTTGG--CCCTGG-ACG

Polypedates_megacephala_Genbank GCCANCACGT-----
TATTTGAACTTCCCTTT-----AAACGCCAGGGT-TCTTCGAGCCG--

AGCTTAAAACCTAAGGATTTGACGGTG-TCCCACCC--
TACTAGAGGAGCTTGTCTATAATCGATGATCC-----
ACGATATACCTAACCATTTTTTGCTATT---
CAGCCTGTATACCTCCGTCGTAAGCTCACCGCTTGAGTGAGAAAA-AGTA-
AGCAAAA--GGGCCT--
AAAGCCAAAACGTCAGGTCAAGGTGCAGCTTATAAAATGGAAGGAAATGGG
CTACAATTTCTAATTT-AGAA-TACA-CGAATTACTGCATGAAA-CA-
AAGTCATGAGGGTGGATTTAGTAGTAAGTGAGGAATAGAGAGCCTCACTTAA
TTCAG--CCCTGGAACG
Philautus_aurifasciatus_ZRC.1.5266_ZRC.1.5268 GCCAAGCCGTAAAA----TTAA-
CTTACACT-ACT----AACGCCAGGGA-ATTACGAGCTTT-
AGCTTAAAACCCAAAGGACTTGACGGTG-TCCCATCC--
CACTAGAGGAGCCTGTCTATAATCGATGATCC-----
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CAGCCTGTATACCTCCGTCGCAAGCCTACCATATGAATGAATTAT-AGTA-
GGCTCAAT-AGCCTA--
AACGCTACAACGTCAGGTCAAGGTGCAGCTTATAAAATGGAT-
GAAATGAGCTACAATTTCTAATCT-AGAA-CAAA-CGAATTACTATATGAAA-
CA-
CAGTCATAAAGGCGGATTTAGCAGTAAATGCGGAATAGAGAGCCCCATTAAA
TCTGG--CCCTGGGACG
Philautus_aurifasciatus_ZRC.1.5267 GCCAAGCCGTAAAA----TTAA-
CTTACACT-ACT----AACGCCAGGGA-ATTACGAGCTTT-
AGCTTAAAACCCAAAGGACTTGACGGTG-TCCCATCC--

CACTAGAGGAGCCTGTTCTATAATCGATGATCC-----

ACGCTATACCTAACCATTTTTTGCTTTT---

CAGCCTGTATACCTCCGTCGCAAGCCTACCATATGAATGAATTAT-AGTA-
GGCTCAAT-AGCCTA--

AACGCTACAACGTCAGGTCAAGGTGCAGCTTATAAAATGGAT-

GAAATGAGCTACAATTTCTAATCT-AGAA-CAAA-CGAATTACTATATGAAA-
CA-

CAGTCATAAAGGCGGATTTAGTAGTAAATGCGGAATAGAGAGCCCCATTAAA
TCTGG--CCCTGGGACG

Philautus_mjobergi_Genbank GCCAAGCCATAAACA---TCAA-

CTTACAACCTAT----AAACGCCAGGGT-ATTACGAGCCT--

AGCTTAAAACCCAAAGGACTTGACGGTG-TCCCACCA--

CTCTAGAGGAGCCTGTTCCATAATCGATGATCC-----

ACGTTATACCTAACCATTTTTTGCTTTT--

CAGCCTGTATACCTCCGTCGCAAGCTTACCATATAAATGAATTAT-AGTG-
GGCCCAATAGATT-G--

AACTCTATTACGTCAGGTCAAGGTGCAGCTTATAAAATGGAAAAGGATGAGC
TACAATTTCTAACTT-AGAA-CAAA-CGAATTACTACATGAAA-CA-

CAGTCATGAAGGTGGATTTAGTAGTAAATAGGGAATAGAGAGCCCTATTAAA
TTTTAG-CCCTGGGACG

Philautus_petersi_Genbank GCCAAGCCATAAACA---TCAA---TAT-----

----ACGCCAGGGT-ATTACGAGCCT--

AGCTTAAAACCCAAAGGACTTGACGGTG-TCCCACCC--

CACTAGAGGAGCCTGTTCTATAATCGATAATCC-----

ACGTTATACCTAACCATTTTTTGCTTTT---

CAGCCTGTATACCTCCGTCGCAAGCCTACCATATAAATGAACAAT-AGTA-

GGCCTAACAGCCC-A--

AACACTATAACGTCAGGTCAAGGTGCAGCTTATAAAATGGAAAGTAATGGGC

TACAATTTCTAGTCT-AGAA-CAAA-CGAATTACTACATGAAA-CA-

CAGTCATGAAGGCGGATTTAGCAGTAAACGGGAAATAAAGAGCCCCGTTTAA

TCTGG--CCCTGGGACG

Buergeria_japonica_Genbank GCC-AACCGTNNA---TTTA--

CTCTCTCCTACCT----ACGCCTGGGT-ATTACGTGCTTT-

AGCTTNAACCCAAAGGACTTGACGGTA-TCCCACCC--

ACCTAGAGGAGCCTGTTCTATAATCGATGATCC-----

ACGCTATACCAAACCATTTCTTGCCTACTTTCAGCCTGTATACCTCCGTCGTA

AACTTACCGTTTGAATGTTAAT-AGTA-GGTCTAATGGCCAC---

CCGTCAATACGTCAGGTCAAGGTGCAGCTTATGAAATGGAAAGCAATGGGCT

ACAATTTCTAACTT-AGAA-CACA-CGAAATACTGCATGAAA-TA-

CAGCCATGAAGGCGGATTTAGTAGTAAAAGGGAAATAGAGAGTCCCTTTAAA

CTTGG--CCCTGGGATG

Chirixalus_eiffingeri_Genbank GCCCAGCCGTATANNA--TCA--

CTTTCNCTTACCT----GCGCCTGGGCTATTTTCGTGTCN--

AACTTAAAACCCAAAGGACTTGACGGTG-

TCCTACCCCCTACTAGAGGAGCCTGTTCTATAACCGATAATCC-----

ACGTTATACCTAACCATCCCTTGCCTAT---

CAGCCTGTATACCTCCGTCGCAAGCTTACCATATGAACGCATAAC-TGTA-

GGCTCTA--GGACTT--

AACGCCATAACGTCAGGTCAAGGTGCAGCTTATGAGATGGAAAGTAATGGGC
TACAATCTCTAAATT-AGAA-CAAA-CGAAAAACTACATGAAA-CA-
TAGACATGAGGGTGGATTTAGTAGTAAATAAGGAATAGAGAGCCTTATTTAA
CTTGG--CCCTGGGACG

Chirixalus_idiotoxicus_ZRC.1.5276 GCCAAGCCGTAAAAAA--TCAA-
CTCACACCAACC----AGCGCCAGGGA-ATTACGAGTAA--
AACTTAAAACCCAAAGGACTTGACGGTG-
TCCTACCCCCTACTAGAGGAGCCTGTTCTATAATCGATAATCC-----

ACGTTATACCCAACCATCCCTTGCTTAT---
CAGCCTGTATACCTCCGTCGCAAGCTTACCATATGAACGCATAAC-AGTA-
GGCCCAA--GGACTT--

AGCGCCACAACGTCAGGTCAAGGTGCAGCTTATGAGATGGAAAGTAATGGGC
TACAATTTCTAAATT-AGAA-CAAA-CGAAAAACTACATGAAA-CA-
TAGACATGAAGGTGGATTTAGTAGTAAATAAGGAATAGAGAGCCTTATTTAA
CTTGG--CCCTGGGACG

Theloderma_corticale_Genbank

??CGCCAGGGA-ATTACGAGCCCC-
AGCTTAAAACCCAAAGGACTTGACGGTG-TCCCACCC--
CACTAGAGGAGCCTGTTCTACAACCGATAATCC-----

ACGTTATACCTAACCATTTTTTGCTTTT---
CAGCCTGTATACCTCCGTCGCAAGCTTACCATGTGAACGCACAAT-AGCA-
AGCTTAA--GGGTCCC-

AAAGCCAACACGTCAGGTCAAGGTGCAGCTCATGAAATGGAAAGTGATGGG
CTACAATTTCTACTTT-AGAA-CAAA-CGAAATTCTTCATGAAA-CA-CAGT-

ACGAAGGCGGATTTAGCAGTAAATAGGCAATAGAGAGCCCTATTAAATTTGG
--CCCTGGGACG

Chiromantis_sp._Genbank ??????????????????TCT---TCTACACCTAC----

AACCGCCAGGGA-ACTACGAGCTTT-

AGCTTAAAACCCAAAGGACTTGACGGTG-KCCCACCC--

AACTAGAGGAGCCTGTCCTATAATCGATATTCC-----

ACGTTATACCTAACCCTTTTTGCTTAT---

CAGCCTGTACACCTCCGTCGTAAGCTTACCATATGAACGCATAAC-AGTA-

GGCCTAA--GGACTT--

AACGCCACAATGGCAGGTCAAGGTGCAGCTCACAAAGTGGTA-

GAGATGAGCTACAATTTCTAAGTT-AGAA-CAAA-CGAAATACTTTATGAAA-

TA-

GAGTCATGAAGGTGGATTTAGTAGTAAGTGGGGAATAGAGAGCCCCACTAAA

CTCGG--CCCTGGGACG

Chiromantis_xerampelina_Genbank GCCTAACCTCNAAAAA-TCTA--

TTTACTCCTACT----ACCGCCAGGGTAACTACGAGCCTT-

AGCTTAAAACCCAAAGGACTTGACGGTG-TCCCACCC--

AACTAGAGGAGCCTGTCCTATAATCGATACTCCACATCGATACTCCACGTTAT

ACCTAGCCACTTTTTGCTTAT---

CAGCCTGTACACCTCCGTCGTAAGCTTACCATATGAACGCACAAC-AGTA-

GGCATAA--GGACCAC--

ACGCCACAATGGCAGGTCAAGGTGCAGCTCACAAAGTGGAA-

GAGATGAGCTACAATTTCTAAATT-AGAA-CATA-CGAAACATTATATGAAA-

CA-

TAATCATGAGGGTGGATTTAGTAGTAAGTGGGGAATAGAGAGCCCCACTTAA
CTCGG--CCCTGGGACG

Rhacophorus_arboreus_Genbank

GCCTAACCGTAAAA---

TTTAMACCCACACCTAC----AAACGCCAGGGT-ACTACGAGCCT--

AGCTTAAAACCCAAAGGACTTGACGGTG-TCCCACCC--

AACTAGAGGAGCCTGTTCTATAATCGATGATCC-----

ACGATATACCAAACCATTTCTCGCCATT---

CAGCCTGTATACCTCCGTCGCAAGCTTACCGTATGAACGTACACT-AGTA-

GGCCAAA--GGATCCT-

AACATCATAACGTCAGGTCAAGGTGCAGCTAATGAAATGGAA-

GCGATGGGCTACAATTTCTAAATT-AGAA-CAA-CGAAACACTACATGAAA-

CA-

TAGTCATGAAGGCGGATTTAGCAGTAAGTAGGAAATAGAGAGTCCTACTAAA

CATGG--CCCTGGGATG

Rhacophorus_moltrechti_Genbank

GCCTTACCGT-----

TTAATTTNACCCTCNCCTATTAACGCCTGGGT-ACTTCGTGCCT--

AGCTTAAAACCCTAAGGACTTGACGGTA-TCCCACCC--

AACTAGAGGAGCCTGTTCTATAATCGATGATCC-----

ACGATATACCAAACCATTTCTCGCCATT---

CAGCCTGTATACCTCCGTCGCAAGCTTACCGTATGAACGCACATC-AGTA-

GGCCAAA--GGACTTT-

AACGTCACAACGTCAGGTCAAGGTGCAGCTAATGAAATGGAAGGCAATGGG

CTACAATTTCTAAATT-AGAA-CACA-CGAAATACTACATGAAA-CA-

TAGTCATGAGGGAGGATTTAGCAGTAAGTGGGAAATAGAGAGCCCCACTAA
ACATGG--CCCTGGGATG

Boophis_tephraeomystax_Genbank

????????????????????????????????ACACCCACAC----ACGCCAGGAT-ATTACGAGCTCA-
AGCTTAAAATCCAAAGGACTTGACGGTG-TTCCACCC--
ATCTAGAGGAGCCTGTTCTTTAATCGATACTCC-----
CCGCTTTACCTCACCATTTCTTGCTTCTT--
CAGCCTGTATACCTCCGTCGCAAACCTTGCCCTATGAATGACACAC-AGCA-
AGTTCAAT-GGCCCC----
CACCAATACGTCAGGTCAAGGTGCAGCCCATGAAATGGGAAGCAATGGGCTA
CAATTTCTAACTT-AGAA-CACA-CGAACTATCACTTGAAA-
CAGTGATCATGAAGGTGGATTTAGTAGTAAAGAGAAATTATAGCGTTCTCTTT
AATTAGG--CCCTGGAACG

Aglyptodactylus_madagascariensis_Genbank GCCCAGCCGTAAAAA---TTAA-

CTCTCTCCCACT----AGCGCCTGGGT-ATTACGAGCGCT-
AGCTTAAAATCCAAAGGACTTGACGGTG-TCCCACCC--
ACCTAGAGGAGCCTGTTCTATAATCGATAATCC-----
TCGTTATACCTCACCATTTCTCGCTTTT---
CAGCCTGTATACCTCCGTCGTAAGCTTACCGTATGAATGTCTAAC-AGTA-
GGTTAAAT-
GGCTTCTACCGCCAATACGTCAGGTCAAGGTGCAGCCAATGAAATGGGAAG
CAATGGGCTACAATTTCTAATTT-AGAA-CAAA-CGGAATACTACATGAAA-CA-
TAGTCATGAAGGCGGATTTAGTAGTAAAAGGAAANTAGAGTGTTCTTTTAA
CNNAGG-CTCTGGGACG

Mantella_aurantiaca_Genbank

??GCGCCAGGGA-ATTACGAGCGTA-
NNNTTAAAATCCAAAGGATTTGACGGTG-TCCCACCC--
ACCTAGAGGAGCCTGTTCTATAATCGATAATCC-----
TCGATATACCCAACCATTTCTTGCTTTT---
CAGCCTGTATACCTCCGTCGCAAGCTTACCATTTGAATGTAAAAG-AGTA-
GGTTTAA--GGATCCCC--
CATCAATACGTCAGGTCAAGGTGCAGCCAATGTAATGGAAAGTAATGGGCTA
CAATTTCTATAAT-AGAA-CAAA-CGAAACACTGCATGAAA-AA-
CAGTCATGAAGGCGGATTTAGTAGTAAAAGGGGAATAGAGAGCCCCTTTTAA
C-AGG--CCCTGGGACG

Mantella_sp._Genbank

NNNNNNNGTAAAAMA-TTTA--

TTTACACCAAC----AAGCGCCAGGGA-ATTACGAGCATA-
TGCTTAAAATCCAAAGGATTTGACGGTG-TCCCACCC--
ACCTAGAGGAGCCTGTTCTATAATCGATAATCC-----
TCGATATACCCAACCATTTCTTGCTTTT---
CAGCCTGTATACCTCCGTCGCAAGCTTACCATTTGAATGTAAAAG-AGTA-
GGTTTAA--GGATTCCC--
CATCAATACGTCAGGTCAAGGTGCAGCCAATGTAATGGAAAGTAATGGGCTA
CAATTTCTATAAT-AGAA-CAAA-CGAAACACTGCATGAAA-AA-
CAGTCATGAAGGCGGATTTAGTAGTAAAAGGAGAATAGAGAGCTCCTTTTAA
CAAGG--CCCTGGGACG

Mantidactylus_grandidieri_Genbank

GTCCAGCCGTAAAAA--CTTAA-

CTCACATCAAC----AAGCGCCAGGGNAATTACGAGCACA-

AGCTTAAAACCCAAAGGATTTGACGGTG-TCCCATCC--
CCCTAGAGGAGCCTGTTCTATAATCGATGATCC-----
TCGATATACCTCACCATTTTTGGCTTTT---
CAGCCTGTATACCTCCGTCGCAAGCTTACCATTTGATTGCCCAA-AGTA-
AGTTCAAC-GGGCCCCC-
CCGCCAATACGTCAGGTCAAGGTGCAGCCAATAAAATGGAAAGCAATGGGCT
ACAATTTCTAACAT-AGAA-CAAA-CGAAAAACTACATGAAA-CA-
TAGTCATGAAGGCGGATTTAGTAGTAAAAAAGACTAGCGAGCTTCTTTTAA
CAAAAGGCCCCGGGACG

Rhacophorus_sp._WHT2481 CGCCTCTTGA-----
AAGTAATAAGAGGTCTAGCCTGCCCAGTGACAAA-
TTAACGGCCGCGGTACCCTAACCGTGCAAAGGTAGCATAATCACTTGTTC
TAAATAAGGACTTGTATCAACGGCATCACGAGGGTTAACTGTCTCCTCCCC
CAATCAGTGAACTGATCTCCCCATGAAAAAGTGGGGATAAGCTTATAAGAC
GAGAAGACCCCATGGAGCTTTAAGCCCAATAGCAACTT-AGCAA--
CGCTTTCCCACT-AGCTGCA--AAGCTA-TGC-TAG-
AGGTTTTAGGTTGGGAGGACCACGGAGTAAAAATCAACCTCCACAACGAAAA
-GATTAATAA-TCTTTACCCTAGACTCACTACTCTAAGGATTAG-
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WHT2484 CGCCTCTTGA-----
CTATAATAAGAGGTCTAGCCTGCCCAGTGATAAA-
TTCAACGGCCGCGGTACCCTAACCGTGCAAAGGTAGCATAATCACTTGTTC
TAAATAAGGACTTGTATCAACGGCATCACGAGGGTTACACTGTCTCCTCTCTC

CAATCAGTGAAACTGATCTCCCCATGAAAAAGTGGGGATAACCTTATAAGAC
GAGAAGACCCCATGGAGCTTTAAACCCAATAGCAATTT-
AGTAACACTACCTTCCTATA-ATTTACA--AAATCA-TGC-TAG-
AGGCTTTAGGTTGGGAGGACCGCGGAGTAAAAACTAACCTCCGCAACGAAA
AAGATTTAAA-TCTTTACCAAAGAGCCACTACTCCAAGGATTAG-
AAAACTAACGTAAAGTGACCCGATA

WHT2489

CGCCTCTTGG-----

TTATAATAAGAGGTCTAGCCTGCCAGTGACAAA-
TTCAACGGCCGCGGTACCCTAACCGTGCAAAGGTAGCATAATCACTTGTTCTC
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TAATCAGTGAAACTGATCCCCCATGAAAAAGTGGGGATAAACCTATAAGAC
GAGAAGACCCCATGGAGCTTTAAACCCGATAGCAATTT-AGCAAAA-
TACTCTCCTATC-ATCTACA--AAATCA-TGC-TAG-
AGGTTTTAGGTTGGGAGGACCGCGGAGTAAAAATTAGCCTCCGCAACGAAAA
-GACCTAAA-TCTTTACCAAAGAACCACTACTCTAAGGATTAG-
AAAACTAACGTAAATGACCCGACA

WHT2511

CGCCTCTTGT-----TTAT-

ATAAGAGGTCTAGCCTGCCAGTGATAAT-
TTCAACGGCCGCGGTACCCTAACCGTGCAAAGGTAGCATAATCACTTGTTCTT
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CAATCAGTGAAACTGATCTCCCCATGAAAAAGTGGGGATAAACTTATAAGAC
GAGAAGACCCCATGGAGCTTTAAACCCAATAGCAACTT-AGCTCAA-
CATATCCC-ACT-AGCTACA--AAACCA-TGC-TAA-
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-GATAAAAATCTTTACCCAAGAACTACTACTCTAAGGATTAG-

AAGACTGACGTAAAATGATCCGATA

WHT2515 CGCCTCTTGA-----

TTACAATAAGAGGTCTAGCCTGCCCAGTGATAAA-

TTCAACGGCCGCGGTATCCTAACCGTGCAAAGGTAGCATAATCACTTGTCTTC

TAAATAGAGACTTGTATCAACGGCCTCACGAGGGTTATACTGTCTCCTCTTTC

CAATCAGTGAAACTGATCCCCCATGAAAAAGTGGGGATAAACCTATAAGAC

GAGAAGACCCCATGGAGCTTTAAACCAAATAGCAACCT-AGC-AAA-

CACTTTCCATT-AGCTGC---AAAACA-TGC-TAG-

AGGTTTTAGGTTGGGAGGACCGCGGAGTAAAACTAACCTCCGCAACGAAAA

-GATTAAGA-TCTTTACCCAAGAGTAATAGCTCTAAGAATTAG-

CAAACCTAACGTAAAATGACCCAATA

WHT2525 CGCCTTTTGA-----

TTATAATAAAAGGTCCAGCCTGCCCAGTGA-AAA-

TTCAACGGCCGCGGTATCCTAACCGTGCAAAGGTAGCATAATCACTTGTCTTCTT

TAAATAGGGACTTGTATCAACGGCATCACGAGGGTTGCACTGTCTCCTCTCTC

CAATCGGTGAAACTGATCTTCCCATGAAAAAGTGGGAATAGATCTATAAGAC

GAGAAGACCCCATGGAGCTTTAAGCCTA-TAGCAACCT-AGCAAAA-CA-

TTTCTTATC-AGCTATAC-AAAACA-TGT-

TTATAAGCTTTAGGTTGGGAGGACCGCGGAGTAAAAACAACCTCCGCAACG

AAAA-GACCAAAG-TCTTTACCCAAGAGCCACAACCTCTCGGAATTAG-

TAAACTAACGTAAC-TGACCCGATA

WHT2540 CGCCTCTTGA-----

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TTCAACGGCCGCGGTATCCTAACCGTGCAAAGGTAGCATAATCACTTGTCTTC
TAAATAGAGACTTGTATCAACGGCCTCACGAGGGTTATACTGTCTCCTCTTTC
CAATCAGTGAAACTGATCCCCCATGAAAAAGTGGGGATAAACCTATAAGAC
GAGAAGACCCCATGGAGCTTTAAACCAAATAGCAACCT-AGC-AAA-
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-GATTAATA-
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CCCAATA

WHT2552

CGCCTCTTGA-----

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GAGAAGACCCCATGGAGCTTTAAACCCACTAGCAATTT-AGC-AAA-
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A-GATTTAAA-TCTTTACCCAAGAGCCACCACTCTCGGGATTGG-
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WHT2555

CGCCTCTTGA-----

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A-GATTTAAA-TCTTTACCCAAGAGCCACCACTCTCGGGATTGG-
TAAACTAACGTAAAATGACCCGATA

WHT2558

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CAATCAGTGAAACTGATCTCCCATGAAAAAGTGGGGATAAACCTATAAGAC
GAGAAGACCCCATGGAGCTTTAAACCCGATAGCAATTT-AGCAAAA-
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AGGCTTTAGGTTGGGAGGACCGCGGAGAAAAACCTACCCTCCGCAACGAAA
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AAAACTAACGTAAAGTGACCCGATA

WHT2566

CGCCTCTTGT-----

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GCTTTAAACCCAATAGCAATTTTAGC-AAA-TGCCTTCCCATT-AGCCACA--
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AAAACCTAACGTAAAATGATCCGATA

WHT2627 CGCCTCTTGA-----AAAT-

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TAAATAAGGACTCGTATCAACGGCATCACGAGGGTTACACTGTCTCCTCCCC

CCAATCAGTGAAACTGATCTCCCCATGAAAAAGCGGGGATAAGCTTATAAGA

CGAGAAGACCCCATGGAGCTTTAAACCCTATAGCAATTT-AGCAAAA-

TGCCTTCCCCT-AGCTGCA--AAACCA-TGC-TAG-

AGGCTTTAGGTTGGGAGGACCGCGGAGCAAAAATTAACCTCCGCAACGAAA

A-GAATAAAG-TCTTTACCCTGGAGTCACTACTCTAAGGATCAG-

TAAACTGACGTAAAATGACCCGACA

WHT2658 CGCCTCTTGA-----

TTATAATAAGAGGTCCAGCCTGCCCACTGATAAA-

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CTAAATAAGGACTTGTATCAACGGCATCACGAGGGTTATACTGTCTCCTCTCT

CCAATCAGTGAAACTGATCTCCCCATGAAAAAGTGGGGATAAACCTATAAGA

CGAGAAGACCCCATGGAGCTTTAAACCCAATAGCAATTT-AGCAAGA-

TACACCCC-AT--AGCTGCA--AAACCA-TGC-TAG-

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WHT2667 CGCCTCTTGA-----

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GAGAAGACCCCATGGAGCTTTAAACCAAATAGCAACCT-AGCAAAA-
CACCTTCCCATT-AGCTGC---AAACTA-TGC-TAA-
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-GATTA AAA-TCTTTATCTAAGAGTTATAGCTCTAAGGATTAG-
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WHT2669

CGCCTTTTGA-----

CTATAATAAGAGGTCCAGCCTGCCAGTGACAAA-
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GAGAAGACCCCATGGAGCTTTAAGACCTACAGCAACCT-
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AAAACTAACGTAC-ATGACCCGATA

WHT2675

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CAATCAGTGAAACTGATCTCCCCATGAAAAAGTGGGGATAAACCTATAAGAC
GAGAAGACCCCATGGAGCTTTAAACCCACAGCAACTT-AGC-AAA-

AGATTTAAA-TCTTTACCAAAGAGCCACTACTCCAAGGATTAG-

AAAAC TAACGTAAAGTGACCCGATA

WHT2700

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CAATCAGTGAAACTGATCCCCCATGAAAAAGTGGGGATAAACCTATAAGAC

GAGAAGACCCCATGGAGCTTTAAACCAAATAGCAACCT-AGC-AAA-

CACCTTCCCATT-AGCTGC---AAAACA-TGC-TAG-

AGGTTTTAGGTTGGGAGGACCGCGGAGTAAAAACTAACCTCCGCAACGAAAA

-GATTAAGA-

TCTTTACCTAAGAGTAATAACTCTAAGGATTAGCAAAACTAACGTAAAATGA

CCCAATA

Theلودerma_schmarda_WHT2715

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GAGAAGACCCCATGGAGCTTTAAGCCAGATAGCAATTT-AGCAAAA-

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AAGACTAAAA-TCTTTACCTAG AATCACTATTCTAAGGATTAG-

TAAACTGACGTAAAGTGACCCAATA

WHT2723

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WHT2729

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A-GATTTAAA-TCTTTACCCAAGAGCTACTACTCTAGGGATTGG-

TAAACTAACGTGAAGTGACCCGATA

WHT2731

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TAATCAGTGAAACTGATCCCCCATGAAAAAGTGGGGATAAACTTATAAGAC
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TGCCTTCCCATT-AGCTGCA--AAACTA-TGC-TAG-
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WHT2766

CGCCTCTTGA-----

AAATATAAGAGGTCTAGCCTGCCAGTGACAAA-
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TGCCTTCCCATT-AGCTGCA--AAACTA-TGC-TAG-
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WHT2772

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GCTTTAAACCCAATAGCAATTTTAGCAAAA--TGCCTTCCCATT-AGCCACA--
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A-GATCTAAA-TCTTTACTCAAGACCCACTACTCTAGGGATTAG-

AAAAC TAACGTAAAATGATCCGATA

WHT2774

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GAGAAGACCCCATGGAGCTTTAAACCCTATAGCAATTC-AGCAAAT-

TGCCTTCCCCT-AGCTACA--AAACCA-TGC-TAA-

AGGCTTTAGGTTGGGAGGACCGCGGAGTAAAACTAACCTCCGCAACGAAA

A-GATTAAGA-TCTTTACCCTAAAATTACTATTTTAAGGACTAG-

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CGCCTCTTGA-----

TAGTAATAAGAGGTCTAGCCTGCCCAGTGATAATATTCAACGGCCGCGGTAC

CCTAACCGTGCAAAGGTAGCATAATCACTTGTTCTTTAAATAAGGACTTGTAT

CAACGGCATCACGAGGGTTGCACTGTCTCCTCCCTCTAATCAGTGAAACTGAT

CTCCCCATGAAAAAGTGGGGATAAACTTATAAGACGAGAAGACCCCATGGA

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AAACCA-TGC-TAA-

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WHT2786

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WHT2792

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WHT2797

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AGGTTTTAGGTTGGGAGGACCGCGGAGTAAAAATTAACCTCCGCAACGAAAA

-GATTAAAA-TCTTTACCTAAGAATAATAGCTCTAAGGATTAG-

AAAACTAACGTAAAATGATCCAATA

WHT_H12 CGCCTCTTGC-----

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CAATCAGTGAAACTGATCTCCCCATGAAAAAGTGGGGATAACCTTATAAGAC

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-GATTCAA-TCTTTACCAAAGAGCCACTACTCCAAGGATTAG-

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WHT_H15 CGCCTCTTGC-----

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WHT_H11

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CACCTTCCTGCC-AGCTACA--AAACTA-TGC-TAG-

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A-GACTAAAA-TCTTTACCCCGAGCCACCACTCCAAGGATTAG-

TAAACTGACGTAAAGTGACCCAATA

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CGCCTCTTGT-----

CATCAATAAGAGGTCTAGCCTGCCAGTGATAAA-

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TATTTCCCTTG-AGCTAC--ATAACCC-TGC-TAA-

CGGTTTTAGGTTGGGGTGACCGCGGAGTAAAAATTAACCTCCGCACCAAAAA

-GATTA AAA-TCTTAACCCAAGAATTACTATTCTAAGTATTAG-

AAA ACTAATGTACCATGACCCGATA

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CGCNTCCNGA-----

CAACAATGGGAGGTCTCGCCTGCCAGTGATAAACTTCAACGGCCGCGGTAC

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CGCCTTTTGA-----

CTATAATAAGAGGTCCAGCCTGCCAGTGATAAA-
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CATTTCCATCT--AGCTATA--AAACGA-TGC-
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AAAACTAACGTAC-ATGACCCGATA

Fejervarya_syhadrensis_WHT2665

CGCCTCTTGACACCATAACCCCTATAAGAGGTCCAGCCTGCCAGTGAAAT--
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GAGAAGACCCCATGGAGCTTTAAACCCAGTAACACCTC-AA-
ACACACCCCTTCCCAA-AGTTTTA--ATGTTC-TGT-
TCACTGGTTTTAGGTTGGGGCGACCGCGGAGTACAACCTAACCTCCACAGCG

CACG-GAACTAAT-TCCTTACCTGAGAGCTACACCTCAAAGAATTAT-
TACATTAACGTAAAATGATCCAATA

Nannophrys_marmoratus_WHT2664

CGCCTCCTGA-----

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AAGTCC-TGT-

CTGTTGGTTTTGGGTTGGGGTGACCGCGGAGTAAAACCTAACCTCCACGACG
AATG-GGACTACCCCCCTTATCCAAGAGCCACTTCTCTACGAATCAA-
CAATTTGACGTTAAATGATCCAACCT

Polypedates_cruciger_WHT2640

CGCCTCTTGC-----

CTCATAATAAGAGGTCCAGCCTGCCAGTGAATT--
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TATAAGGTTTTTGGTGGGGTGACCGCGGAGTAAAACATAACCTCCACGACG
GAAA-GACCACAA-TCTTTATTCAAGAACTACAATTCTAAAAACTAG-
CACACTAACGTATTCTGACCCGATA

Polypedates_eques_WHT2714

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CTAATCAGTGAAATTGATCTCCCCGTGAAGAAGCGGGGATAATGTTATAAGA
CGAGAAGACCCCATGGAGCTTTAAACCAAGCAACAACCTC-AATTTTA-
TATTACCTAAC--AAACA-ATAGAGAAG-TGC-
TGCAAGGTTTTGGGTTGGGGTGACCACGGAGTAAAATTAACCTCCACGACG
AAAA-GACCTAG--TCTTTATTCAAGAATTACCCTTCTAAAAATTAG-
TACTACTAACGAATAATGATCCAATA

Polypedates_eques_WHT2741 CGCCTCTTGT-----

TTATACATAAGAGGTCCAGCCTGCCAGTGATAAA-
TTCAACGGCCGCGGTACCCTAACCGCGCGAAGGTAGCATAATCACTTGTTCC
TTAAATAGGGACTAGTATCAACGGCATCACGAGGGTTCTACTGTCTCCTCTCT
CTAATCAGTGAAATTGATCTCCCCGTGAAGAAGCGGGGATAATGTTATAAGA
CGAGAAGACCCCATGGAGCTTTAAACCAAGCAACAACCTC-AATTTTA-
TATTACCTAAC--AAACA-ATAGAGAAG-TGC-
TGCAAGGTTTTGGGTTGGGGTGACCACGGAGTAAAATTAACCTCCACGACG
AAAA-GACCTAG--TCTTTATTCAAGAATTACCCTTCTAAAAATTAG-
TACTACTAACGAATAATGATCCAATA

Polypedates_fastigo_WHT2783 CGCCTCTTGT-----

TTATTCATAAGAGGTCCAGCCTGCCAGTGATAAA-
TTCAACGGCCGCGGTACCCTAACCGTGCAAAGGTAGCATAATCACTTGTTCCCT
TAAATAGGGACTAGTATCAACGGCATCACGAGGGTTCTACTGTCTCCTCTCTC
TAATCAGTGAAATTGATCTCCCCGTGAAGAAGCGGGGATAACATTATAAGAC
GAGAAGACCCCATGGAGCTTTAAACCAAGCAACAACCTC-AATTTTA-

Polypedates_megacephala_Genbank CGCCTCTTGA-----

CTTATAAATAAGAGGTCCAGCCTGCCAGTGA????TTTAACGGCCGCGGTAT
CCTAACCGNGCGAAGGTAGCATAATCACTTGTTCTTTAAATGGGGACTCGTAT
CAACGGCATCACGAGGGTTATACTGTCTCCTCTTTTTGATCAGTGAAATTGAT
CTTCCCGTGAAGAAGCGGGAATACTTATATAAGACGAGAAGACCCCATGGAG
CTTTAAACCAAATAGCAAACCTTACCATATATTGCCCAATAACTTT-----

AAGCCCG-TGC-

TACAAGGTTTTTGGTTGGGGTGACCGCGGAGTAAAGCACATCCTCCACGACG
GAAA-GACTATAA-TCTTTATTTAAGAACTACAATTCTAGAAATTAG-
TATACTAACGTTTACTGACCCGACN

Philautus_aurifasciatus_ZRC.1.5266_ZRC.1.5268 CGCCTCTTGA-----

TTATTAATAAGAGGTCCAGCCTGCCAGTGATAATATTCAACGGCCACGGTA
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ATCTCCCTGTGAAAAGCAGGGATAACATTATAAGACGAGAAGACCCCATGG
AGCTTTAAACCCCA-AGCAACTTTACTACACATTTTCATTTTATT-TACT----

AAATTAT-TGC-

CTACCGGTTTTAGGTTGGGGCGACCGCGGAGTAAAAACAACCTCCATAACG
AAAA-AACCTTAA-TTTTTATCTAAGATCTACTACTCAAAGAATTAG-
AAAACCTAACGTACTATGACCCGACA

Philautus_aurifasciatus_ZRC.1.5267 CGCCTCTTGA-----

TTATTAATAAGAGGTCCAGCCTGCCAGTGATAATATTCAACGGCCACGGTA
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TCAATGGCACCACGAGGGTTATACTGTCTCCTCTCCCAATCAGTGAAACTGA

CCCTAACTGCGCGAAGGTAGCATAATCACTTGTTCCCTTAAATAGGGACTAGT
ATCAACGGCATCACGAGGGTTGCACTGTCTCCTTTATCTAATCAGTGAAACTG
ATCTCCCCGTGAAAAAGCGGGGATACACTTATAAGACGAGAAGACCCCATGG
AGCTTTAAACCT-ACAGCAACTC-AACCACATAATCCTACACA--ACCTT---
AGAGACA-TGC-
CTGTTGGCTTTAGGTTGGGGTGACCGCGGAGTAAAAATCATCCTCCACAACA
CAAA-GATCTAAA-TCTTTATTCAAGAGCCACCACTCTAAAAATTAG-
CACACTAATGTACACTGACCCGATA

*Theلودerma_corticale*_Genbank CGCCTCTTGC-----

CCTCCCNATAAGAGGTCCAGCCTGCCAGTGATAAAATTCAACGGCCGCGGT
ATCCTAACCGTGCGAAGGTAGCATAATCACTTGTTCTTTAAATANGGACTCGT
ATCAACGGCATCACGAGGGTTGCACTGTCTCCTCCCTCCAATCAGTGAAACT
GATCTCCCCGTGAAGAAGCGGGGGTATCACTATAAGACGAGAAGACCCCATG
GAGCTTAAAACTGGACAGCAACTTACTCATATTCTCCTCCCC----ACTCAC--
AAAGACA-TGC-
CCGTCAGTTTTTGGTTGGGGCGACCGCGGAGTAAAAACCAACCTCCACGTCA
AAA--GAATACGA--TTCTATCTTAGAGTCACCCCTC-AAGAATTAG-
CACACTAATA-AACACGACCCGTTC

*Chiromantis_sp.*_Genbank

NNNNNNNNNN????????????ATAAGAGGTCTAGCCTGCCAGTGA????TTTAA
CGGCCGCGGTACTCTGACCGTGCGAAGGTAGCATAATCACTNGTTCTTTAAAT
AGGGACTTGTATCAATGGCATCACGAGGGTTGTACTGTCTCCTCTCTCCAATC
AGTGAACCTAATCTTCCCGTGAAGAAGCGGGAATATAAATATAAGACGAGAA
GACCCCATGGAGCTTTAAACCTTATGGCAATTTAAATTAAACAATTCCTTATA

TCTCTCCGTGAAGAAGCGGAGATAGAATTATAAGACGAGAAGACCCCATGGA
GCTTTAAACCCAGCAACTACCTCTGTTTAAACACACCCACATAAGTAAC---
AGAACCC-

TATTTGTCTGGTTTTAGGTTGGGGTGACCGCGGAGTATAAAATAGCCTCCACG
ATGAATG-GGCTAACC-CCTTAATCTAAGAGTCACACCTCTAAGAATTAG-
CAATCTAACATAAACTGATCCGACT

Mantella_aurantiaca_Genbank CGCCTCTTGA-----

AATCAAATATAAGAGGTCTAGCCTGCCAGTGACAAA-
TTCAACGGCCGCGGTACNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNATCAACGGCATCANGAGGGTTACACTGTCTCCT
TTTTCCAATCAGTGAAACTGATCTCTCCGTGAAGAAGCGGAGATTTTTTTATA
AGACGAGAAGACCCCATGGAGCTTTAAACCCACCTGCACTCCT-
ATTTTCTATTACCTCTAAAACCTAT-----GGAATC-

TGCATTCTTGGTTTTAGGTTGGGGTGACCGCGGAGCACAATACAGCCTCCACG
ATGAACG-GGATTACC-CCCTTATCTAAGAGCTACACCTCTAAGAATTAG-
CATTCTAACATAAAATGATCCGACA

Mantella_sp._Genbank CGCCTCTTGA-----AATCAA-

TATAAGAGGTCTAGCCTGCCAGTGATNNNNTTCAACGGCCGCGGTACCCTA
ACCGTGCGAAGGTAGCATAATCACTTGTTCTTTAAATGAGGACTTGTATCAAC
GGCATCACGAGGGTTACACTGTCTCCTTTTTCCAATCAGTGAAACTGATCTCT
CCGTGAAGAAGCGGAGATTTTTCTATAAGACGAGAAGACCCCATGGAGCTTT
AAACCCACNTGCACTCCT-ATTTTNTATNNCCTCTAAAACCTAT-----GGAATC-
TGCATTCTTGGTTTTAGGTTGGGGTGACCGCGGAGCACAATATAGCCTCCACG

ATGAACG-GGATTACC-CCCTTATCTACGAGCTACACCTCTAAGAATTAG-
TATTCTAACATAAAAATGATCCGACA

Mantidactylus_grandidieri_Genbank

CGCCTCTTGA-----CACAA-

TATAAGAGGTCCAGCCTGCCAGTGACACAGTTTAACGGCCACGGTATCCTA
ACCGTGCGAAGGTAGCATAATCACTTGTTCTTTAAATGAGGACTTGTATCAAC
GGCATCACGAGGGCTCTACTGTCTCCTTTCTCTAATCAGTGAACTAATCTCC
CCGTGAAGAAGCGGGGATACTACCATAAGACGAGAAGACCCCATGGAGCTTT
AAACCCAACACTACACCCT-ACTTTTACACCCACTCAACCAAC----AGGGCCC-
TGTACGCTTGGTTTTAGGTTGGGGTGACCGCGGAGTAAAGTTAAACCTCCAC
GATGAACG-GGAATACC-CTCTTATCCAAGAGCCACACCTCTAAGAATTAG-
CACACTAACATAAAAATGATCCGATA

Rhacophorus_sp._WHT2481

TCGATCAACGAACCAAGTTACCCTGGGGATAACAGCGCAATCTACTTCAAGA
GTTTCATATCGACAAGTAGGCTTACGACCTCGATGTTGGATCAGGGTAACCCA
GTGGTGCAGCCGCTACTGAAGGTTTCGTTTGTTCAACGATTAAAACCCT

WHT2484

A-----

CGATCAACGAACCAAGTTACCCTGGGGATAACAGCGCAATCTACTTCAAGAG
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GGTGCAGCCGCTACTCAAGGTTTCGTTTGTTCAACGATTAAAACCCT

WHT2489

CCGATCAACGAACCTAGTTACCCTGGGGATAACAGCGCAATCTACTTCAAGA
GTTTCATATCGACAGGTAGGCTTACGACCTCGATGTTGGATCAGGGTATCCCA
GTGGTGCAGCCGCTACTGAAGGTTTCGTTTGTTCAACGATTAAAACCCT

WHT2511

TCGATCAACGAACCAAGTTACCCTGGGGATAACAGCGCAATCTACTTCAAGA
GTTTCATATCGACAAGTAGGCTTACGACCTCGATGTTGGATCAGGGTATCCCA
GTGGTGCAGCCGCTACTAAAGGTTTCGTTTGTTC AACGATTAAAACCCCT

WHT2515

TTGATCAATGAACCAAGTTACCCTGGGGATAACAGCGCAATCCACTTCAAGA
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TGGTGCAGCCGCTACCAAGGGTTCGTTTGTTC AACGATTAAAACCCCT

WHT2525

TCGATCAATGAACCAAGTTACCCTGGGGATAACAGCGCAATCCATTTAAGA
GTTTCATATCGACGAATGGGCTTACGACCTCGATGTTGGATCAGGGTATCCGG
GTGGTGCAGCCGCTACCAAAGGTTTCGTTTGTTC AACGATTAAAACCCCT

WHT2540

TTGATCAATGAACCAAGTTACCCTGGGGATAACAGCGCAATCCACTTCAAGA
GTCCTTATTGACAAGTGGGCTTACGACCTCGATGTTGGATCAGGGTATCCTGG
TGGTGCAGCCGCTACCAAAGGTTTCGTTTGTTC AACGATTAAAACCCCT

WHT2552

TCGATCAATGAACCAAGTTACCCTGGGGATAACAGCGCAATCTACTTCAAGA
GTTTCATATCGACAAGTAGGCTTACGACCTCGATGTTGGATCAGGGTACCCCA
GTGGTGCAGCCGCTACTGAAGGTTTCGTTTGTTC AACGATTAAAACCCCT

WHT2555

TCGATCAATGAACCAAGTTACCCTGGGGATAACAGCGCAATCTACTTCAAGA
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GTGGTGCAGCCGCTACTGAAGGTTTCGTTTGTTC AACGATTAAAACCCCT

WHT2558

TCGATCAACGAACCAAGTTACCCTGGGGATAACAGCGCAATCTACTTCAAGA
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GTGGTGCAGCCGCTACTGAAGGTTTCGTTTGTTC AACGATTAAAACCCT

WHT2566

TCGATCAACGAACCAAGTTACCCTGGGGATAACAGCGCAATCTACTTCAAGA
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GTGGTGCAGCCGCTACTAAAGGTTTCGTTTGTTC AACGATTAAAACCCT

WHT2627

TCGATCAACGAACCAAGTTACCCTGGGGATAACAGCGCAATCTACTTCAAGA
GTTTCATATCGACAAGTAGGCTTACGACCTCGATGTTGGATCAGGGTATCCCG
GTGGTGCAGCCGCTACTGAAGGTTTCGTTTGTTC AACGATTAAAACCCT

WHT2658

TTGATCAATGAACCAAGTTACCCTGGGGATAACAGCGCAATCTACTTCAAGA
GTTTCATATCGACAGGTAGGCTTACGACCTCGATGTTGGATCAGGGTATCCCA
GTGGTGCAGCCGCTACCGATGGTTCGTTTGTTC AACGATTAAAACCCT

WHT2667

TTGATCAATGAACCAAGTTACCCTGGGGATAACAGCGCAATCCACTTCAAGA
GTCCTTATTAACAAGTGGGCTTACGACCTCGATGTTGGATCAGGGTATCCTGG
TGGTGCAGCCGCTACCAAGGGTTCGTTTGTTC AACGATTAAAACCCT

WHT2669

TCGATCAATGAACCAAGTTACCCTGGGGATAACAGCGCAATCCACTCTGAGA
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GTGGTGCAGCCGCTACCAAGGGTTCGTTTGTTC AACGATTAAAACCCT

WHT2675

TCGATCAACGAACCAAGTTACCCTGGGGATAACAGCGCAATCTACTTCAAGA
GTTTCATATCGACAAGTAGGCTTACGACCTCGATGTTGGATCAGGGTATCCTGG
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WHT2690

TTGATCAATGAACCAAGTTACCCTGGGGATAACAGCGCAATCCACTTCAAGA
GTCCTTATTGACAAGTGGGCTTACGACCTCGATGTTGGATCAGGGTATCCTGG
TGGTGCAGCCGCTACCAAAGGTTTCGTTTGTTC AACGATTA AAAACCCT

WHT2699

A-----

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TTCATATCGACAAGTAGGCTTACGACCTCGATGTTGGATCAGGGTATCCCAGT
GGTGCAGCCGCTACTGAAGGTTTCGTTTGTTC AACGATTA AAAACCCT

WHT2700

TTGATCAATGAACCAAGTTACCCTGGGGATAACAGCGCAATCCACTTCAAGA
GTCCTTATTGACAAGTGGGCTTACGACCTCGATGTTGGATCAGGGTATCCTGG
TGGTGCAGCCGCTACCAAAGGTTTCGTTTGTTC AACGATTA AAAACCCT

*Theلودerma_schmarda*_WHT2715

TTGATCAACGAACCAAGTTACCCTGGGGATAACAGCGCAATCTGCTTCAAGA
GTTTCATATCGACAAGTAGGCTTACGACCTCGATGTTGGATCAGGGTATCCCA
GTGGTGCAGCCGCTACTGAAGGTTTCGTTTGTTC AACGATTA AAAACCCT

WHT2723

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GTGGTGCAGCCGCTACTGAAGGTTTCGTTTGTTC AACGATTA AAAACCCT

WHT2729

TCGATCAACGAACCAAGTTACCCTGGGGATAACAGCGCAATCTACTTCAAGA
GTTTCATATCGACAAGTAGGCTTACGACCTCGATGTTGGATCAGGGTATCCCA
GTGGTGCAGCCGCTACTGAAGGTTTCGTTTGTTC AACGATTAAAACCCT

WHT2731

TCGATCAACGAACCAAGTTACCCTGGGGATAACAGCGCAATCTACTTCAAGA
GTTTCATATCGACAAGTAGGCTTACGACCTCGATGTTGGATCAGGGTATCCCA
GTGGTGCAGCCGCTACTGAAGGTTTCGTTTGTTC AACGATTAAAACCCT

WHT2766

TCGATCAACGAACCAAGTTACCCTGGGGATAACAGCGCAATCTACTTCAAGA
GTTTCATATCGACAAGTAGGCTTACGACCTCGATGTTGGATCAGGGTATCCCG
GTGGTGCAGCCGCTACTGAAGGTTTCGTTTGTTC AACGATTAAAACCCT

WHT2772

TCGATCAACGAACCAAGTTACCCTGGGGATAACAGCGCAATCTACTTCAAGA
GTTTCATATCGACAAGTAGGCTTACGACCTCGATGTTGGATCAGGGTATCCCA
GTGGTGCAGCCGCTACTAAAGGTTTCGTTTGTTC AACGATTAAAACCCT

WHT2774

TTGATCAACGAACCAAGTTACCCTGGGGATAACAGCGCAATCTACTTCAAGA
GTTTCATATCGACAAGTAGGCTTACGACCTCGATGTTGGATCAGGGTATCCCA
GTGGTGCAGCCGCTACTGAAGGTTTCGTTTGTTC AACGATTAAAACCCT

Philautus_femoralis_WHT2779

TCGATCAACGAACCAAGTTACCCTGGGGATAACAGCGCAATCTACTTCAAGA
GTTTCATATCGACAAGTAGGCTTACGACCTCGATGTTGGATCAGGGTATCCCA
GTGGTGCAGCCGCTACTGAGGGTTCGTTTGTTC AACGATTAAAACCCT

WHT2786

A-----

CGATCAACGAACCAAGTTACCCTGGGGATAACAGCGCAATCTACTTCAAGAG
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GGTGCAGCCGCTACTGAAGGTTTCGTTTGTTC AACGATTA AAAACCCT

WHT2792

TCGATCAACGAACCAAGTTACCCTGGGGATAACAGCGCAATCTACTTCAAGA
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GTGGTGCAGCCGCTACCAAAGGTTTCGTTTGTTC AACGATTA AAAACCCT

WHT2797

TTGATCAATGAACCAAGTTACCCTGGGGATAACAGCGCAATCCACTTCAAGA
GCCCCTATTGACAAGTGGGCTTACGACCTCGATGTTGGATCAGGGTATCCTGG
TGGTGCAGCCGCTACCAAAGGTTTCGTTTGTTC AACGATTA AAAACCCT

WHT_H12

A-----

CGATCAACGAACCAAGTTACCCTGGGGATAACAGCGCAATCTACTTCAAGAG
TTCATATCGACAAGTAGGCTTACGACCTCGATGTTGGATCAGGGTATCCCAGT
GGTGCAGCCGCTACTGAAGGTTTCGTTTGTTC AACGATTA AAAACCCT

WHT_H15

A-----

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TTCATATCGACAAGTAGGCTTACGACCTCGATGTTGGATCAGGGTATCCCAGT
GGTGCAGCCGCTACTGAAGGTTTCGTTTGTTC AACGATTA AAAACCCT

WHT_H11

TTGATCAACGAACCAAGTTACCCTGGGGATAACAGCGCTATCTACTTCAAGA
GTTTCATATCGACAAGTAGGCTTACGACCTCGATGTTGGATCAGGGTATCCCA
GTGGTGCAGCCGCTACTGAAGGTTTCGTTTGTTC AACGATTA AAAACCCT

Philautus_charius_FB

TCGATCAATGAACCAAGTTACCCTGGGGATAACAGCGCAATCTACTTCAAGA
GTCCATATCGACAAGTAGGCTTACGACCTCGATGTTGGATCAGGGTATCCTA
GTGGTGCAGCCGCTACTGAAGGTTTCGTTTGTTC AACGATTAAAACCCT

Philautus_signatus_FB

A-----

TCGATCAACGAACCAAGTTACCCTGGGGATAACAGCGCAATCTACTTCAAGA
GTCCATATCGACAAGTAGGCTTACGACCTCGATGTTGGATCAGGGTATCCTA
GTGGTGCAGCCGCTACTAAAGGTTTCGTTTGTTC AACGATTAAAACCCT

Philautus_wynaadensis_FB

TCGATCAATGAACTAAGTTACCCTGGGGATAACAGCGCAATCCACTCTGAGA
GTTTCATATCGACGAGCGGGCTTACGACCTCGATGTTGGATCAGGGTATCCTG
GTGGTGCAGCCGCTACCGAAGGTTTCGTTTGTTC AACGATTAAAACCCT

Fejervarya_syhadrensis_WHT2665

TTTTCCTTATTGATTAATGAACCAAGTTACCCTGGGGATAACAGCGCAATCCA
TTTCTAGAGCCCCTATCGACAAATGGGTTTACGACCTCGATGTTGGATCAGGG
TATCCCAGTGGTGCAGCCGCTACTAATGGTTTGTTC AACCAATTAAAACC
CT

Nannophrys_marmoratus_WHT2664

TC-----

TTGATCAACGAACCAAGTTACCCTGGGGATAACAGCGCAATCCACTTTGAGA
GCCCCTATCGACAAGTGGGTTTACGACCTCGATGTTGGATCAGGGTATCCCA
GTGGTGCAGCCGCTACTAATGGTTTGTTC AACCAATTAAAACCCT

Polypedates_cruciger_WHT2640

A-----

TCGATCAACGAACCAAGTTACCCTGGGGATAACAGCGCAATCTACTTCAAGA

Rhacophorus_moltrechti_Genbank A-----

TCGATCAACGGACCAAGTTACCCTGGGGATAACAGCGCAATCTACTTCGAGA
GCTCATATCGACAAGTAGGCTTACGACCTCGATGTTGGATCAGGGTATCCCA
GTGGTGCAGCCGCTACTAATGGTTCGTTNGTTCAACGATTA AAAACCN

Boophis_tephraeomystax_Genbank TTT-----

TCGATCAACGAACCAAGTTACCCTGGGGATAACAGCGCAATCCACTTCAAGA
GCTCATATCGACAAGTGGGTTTACGACCTCGATGTTGGATCAGGGTATCCCA
GTGGTGCAGCAGNN

Aglyptodactylus_madagascariensis_Genbank A-----

TCGATCAACGAACCAAGTTACCCTGGGGATAACAGCGCAATCCACTTTAAGA
GCTCCTATCGACAAGTGGGTTTACGACCTCGATGTTGGATCAGGGTATCCTAG
TGGTGCAGCAGNN

Mantella_aurantiaca_Genbank A-----

TCGATCAACGAACCAAGTTACCCTGGGGATAACAGCGCAATCCACTTCAAGA
GCCCCTATCGACAAGTGGGTTTACGACCTCGATGTTGGATCAGGGTATCCTAG
TGGTGCAGCAGCTACTAAAGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

Mantella_sp._Genbank A-----

TCGATCAACGAACCAAGTTACCCTGGGGATAACAGCGCAATCCACTTCAAGA
GCTCCTATCGACAAGTGGGTTTACGACCTCGATGTTGGATCAGGGTATCCTAG
TGGTGCAGCAGCTACTAAAGGTTTCGTTTGTTC AACGATTA AAAACCN

Mantidactylus_grandidieri_Genbank C-----

TCGATCAACGAACCAAGTTACCCTGGGGATAACAGCGCAATCCATTTCAAGA
GCCCCTATCGACAAATGGGTTTACGACCTCGATGTTGGATCAGGATATCCCA
GTGGTGCAGCAGCTACTAAAGGTTTCGTTTGGTCAACGATTA AAAACCN

```
    ;  
End;  
  
OUTGROUP Fejervarya_syhadrensis_WHT2665 Nannophrys_marmoratus_WHT2664;  
  
BEGIN SETS;  
    CHARSET 12S = 1-416;  
    CHARSET 16S = 417-993;  
END;  
  
BEGIN ASSUMPTIONS;  
    EXSET * ambigalign = 14-40 137-180 222-250 401-406 427-439 465-469 665-  
711 764-773 833-842;  
END;  
  
BEGIN PAUP;  
Set Criterion = Likelihood;  
Lset Base=(0.3380 0.2188 0.1724) Nst=6 Rmat=(6.073 18.621 5.692 0.6031 59.767)  
Rates=gamma Shape=0.599 Pinvar=0.346;  
END;
```

[To run this dataset in MrBayes eliminate all lines from "Outgroup" through this line (i.e., eliminate the outgroup line and all lines up to and including this line) then save and execute in MrBayes.]

```
BEGIN MRBAYES;
```

```
lset basefreq=estimate nst=6 revmat=estimate rates=invgamma shape=estimate;
```

```
mcmc ngen=500000 printfreq=100 samplefreq=10 nchains=4 savebrlens=yes;
```

```
END;
```