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Assembly of the eastern North American herpetofauna: New evidence from lizards and frogs

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Abstract

Darwin first recognized the importance of episodic intercontinental dispersal in the establishment of worldwide biotic diversity. Faunal exchange across the Bering Land Bridge is a major example of such dispersal. Here, we demonstrate with mitochondrial DNA evidence that three independent dispersal events from Asia to North America are the source for almost all lizard taxa found in continental eastern North America. Two other dispersal events across Beringia account for observed diversity among North American ranid frogs, one of the most species-rich groups of frogs in eastern North America. The contribution of faunal elements from Asia via dispersal across Beringia is a dominant theme in the historical assembly of the eastern North American herpetofauna.

Keywords: Reptilia, Amphibia, North America, biogeography, phylogeny

1. Introduction

Episodes of intercontinental dispersal have had a dramatic impact on current large-scale floral and faunal distribution patterns. Intercontinental dispersal occurs primarily when tectonic plates collide (Macey *et al*. 2000; Bossuyt & Milinkovitch 2001), when decreasing sea-levels expose land bridges (Wallace 1876; Darwin 1883), or when climatic changes produce dispersal corridors in otherwise inhospitable areas. A faunal exchange between Africa and Asia was induced by the plate-tectonic closing of the Tethys Sea, and a major exchange between North America and South America occurred following formation of a land bridge by the combined influence of plate tectonics and a decrease in sea-level (Brown & Lomolino 1998).

Climatic fluctuations producing episodic connections between Eurasian and North American faunal and floral elements have been invoked recently to explain disjunct distributions in bacteria (Maekawa *et al*. 2005), flowering plants (Wen 1999), aphids (von Dohlen *et al*. 2002), alligators and cryptobranchid salamanders (Pough *et al*. 2004), and even humans (Brown & Lomolino 1998). Particularly important for herpetofaunal exchanges was a Mid-Miocene connection of eastern Eurasia and eastern North America by a continuous temperate deciduous forest; this connection provided habitats for amphibian and reptilian groups otherwise excluded from the high latitudes at which Eurasia and North America are in close proximity.

Several eastern North American lizard and frog groups may have entered this region from Asia during the Miocene. We present molecular phylogenetic evidence of intercontinental faunal exchanges for ranid frogs and for two genera of scincid lizards, which share disjunct distributions in eastern North America and eastern Asia. The broader phylogenetic contexts of both groups place their origins in the Old World (Bossuyt & Milinkovitch 2001; Brandley *et al*. 2005), indicating that the eastern North American species descend from Eurasian ancestors.

2. Material And Methods

The scincid genera, *Scincella* and *Eumeces*, are placed in separate subfamilies, Lygosominae and Scincinae, respectively. No previous phylogenetic work has considered all Northern Hemisphere genera in this family. In the Lygosominae, we sample *Scincella lateralis* from eastern North America and compare it to three species of *Scincella* and *Sphenomorphus indicus* from eastern Asia. In the Scincinae, we sample each species of *Eumeces* (including *Neoseps reynoldsi*) occurring east of the Mississippi River, several western North American *Eumeces* and two eastern Asian species (*Eumeces capito* and *Eumeces quadrilineatus*). Central American *Eumeces* are not part of the North American radiation (Brandley *et al*. 2005). Based on morphological characters, Griffith *et al*. (2000) suggest that North American scincines form a monophyletic group. We sample all scincine genera occurring in western Asia and most from North Africa (*Chalcides*, *Eurylepis*, *Novoeumeces*, *Ophiomorus* and *Scincus*). To root the phylogenetic hypothesis of the Scincidae, members of two separate families are included, *Eremias grammica* from the Lacertidae and *Platysaurus capensis* from the Cordylidae.

Ranidae is one of the largest frog families. To investigate the affinities of North American taxa, members of all monophyletic North American species groups are sampled (*R. catesbeiana*, *R. sylvatica*, *R. warszewitschii*, *R. areolata*, *R. pipiens,* and all taxa in the *R. boylii* species group; Hillis & Davis 1986; Macey *et al*. 2001). These taxa are compared to a wide range of ranids occurring in Asia and Europe, and rooted with a pipid (*Xenopus laevis*), bufonid (*Bufo andrewsi*), and rhacophorid (*Polypedates leucomystax*).

We sequenced a segment of the mitochondrial genome containing part of *nad1, trnI, trnQ, trnM, nad2, trnW, trnA, trnN, trnC, trnY* and part of *cox1*. Sequencing primers for scincid lizards are from Macey *et al*. (1997) and primers for ranid frogs are from Macey *et al*. (2001).

DNA sequences were aligned manually. Positions encoding proteins were translated to amino acids using MacClade v. 4.03 (Maddison & Maddison 2001) for confirmation of alignment. Alignments of sequences encoding tRNAs were based on secondary structural mod-

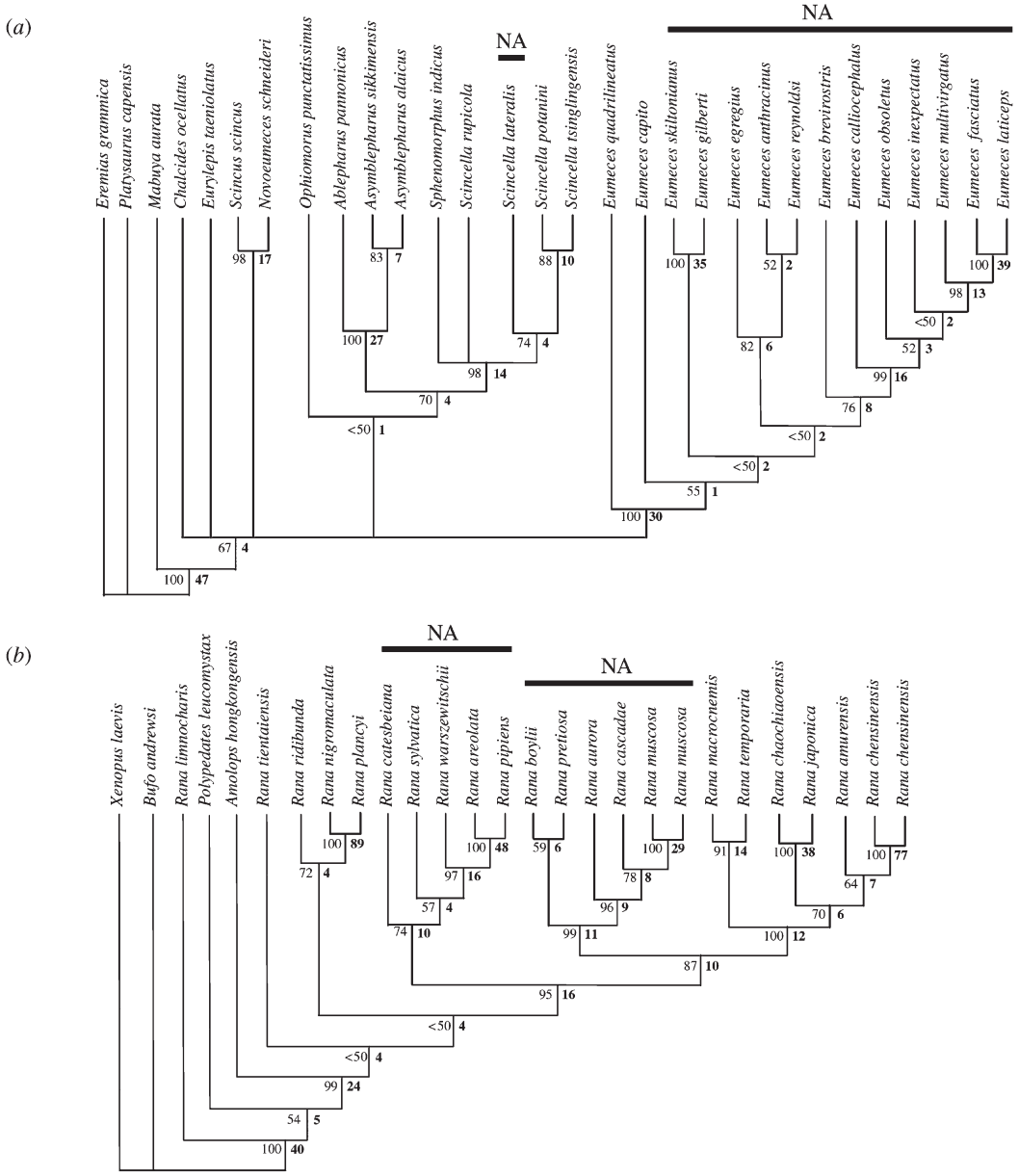


Figure 1. Phylogenetic relationships among **(a)** scincid lizards and **(b)** ranid frogs. Bars indicate taxa occurring in North America (NA); all other taxa are from Asia, Europe and Africa (see text). Bootstrap values are shown to the left of the branches, and decay indices to the right. The two *R. muscosa* samples represent the two major clades (Macey *et al.* 2001). **(a)** The strict consensus of three equally parsimonious trees with a length of 5788 steps resulting from analysis of 1832 positions (949 informative) from the *nad1–cox1* mtDNA region. **(b)** The single most parsimonious tree with a length of 5320 steps resulting from analysis of 2065 positions (951 informative) from the *nad1–cox1* mtDNA region.

els (reviewed in Macey & Verma 1997). Regions with extensive length variation were deemed unalignable and excluded from phylogenetic analyses.

The alignment for scincid lizards is 1933 positions of which 101 were excluded from analyses. Of the remaining 1832 positions, 949 are parsimony informative. The alignment for ranid frogs is 2126 positions of which 61 were excluded from analyses. Of the remaining 2065 positions, 951 are parsimony informative. These sequence alignments are presented in the "Supplementary Materials," appendices A and B.

Phylogenetic trees were inferred by parsimony using PAUP* beta v. 4.0b8 (Swofford 2001) using default settings. Bootstrap resampling (Felsenstein 1985) was applied to assess support for individual nodes using 500 replicates. Decay indices (="branch support"' of Bremer 1994) were calculated for all internal branches using searches that retained suboptimal nodes. All searches were heuristic using 100 random additions per replicate or search (see appendix C in the "Supplementary Materials," for maximum-likelihood methods).

Museum voucher numbers and locality data for all newly reported sequences are deposited in GenBank files AY607272–AY607316, DQ005638, and DQ471440. A few of these sequences have been extended from other studies (Macey *et al*. 1997, 1998). Previously reported sequences used here are: *X. laevis*, M10217 (Roe *et al*. 1985); *R. catesbeiana, R. sylvatica, R. temporaria, R. boylii, R. pretiosa, R. aurora, R. cascadae,* and *R. muscosa,* AF314016–AF314023 and AF314029, respectively (Macey *et al*. 2001).

3. Results

Phylogenetic relationships among the Scincidae and Ranidae are presented in Figure 1 (Appendix C in "Supplementary Materials" shows maximum-likelihood results, which are similar). North American scincines do not form a monophyletic group. The lygosomine *Scincella lateralis*

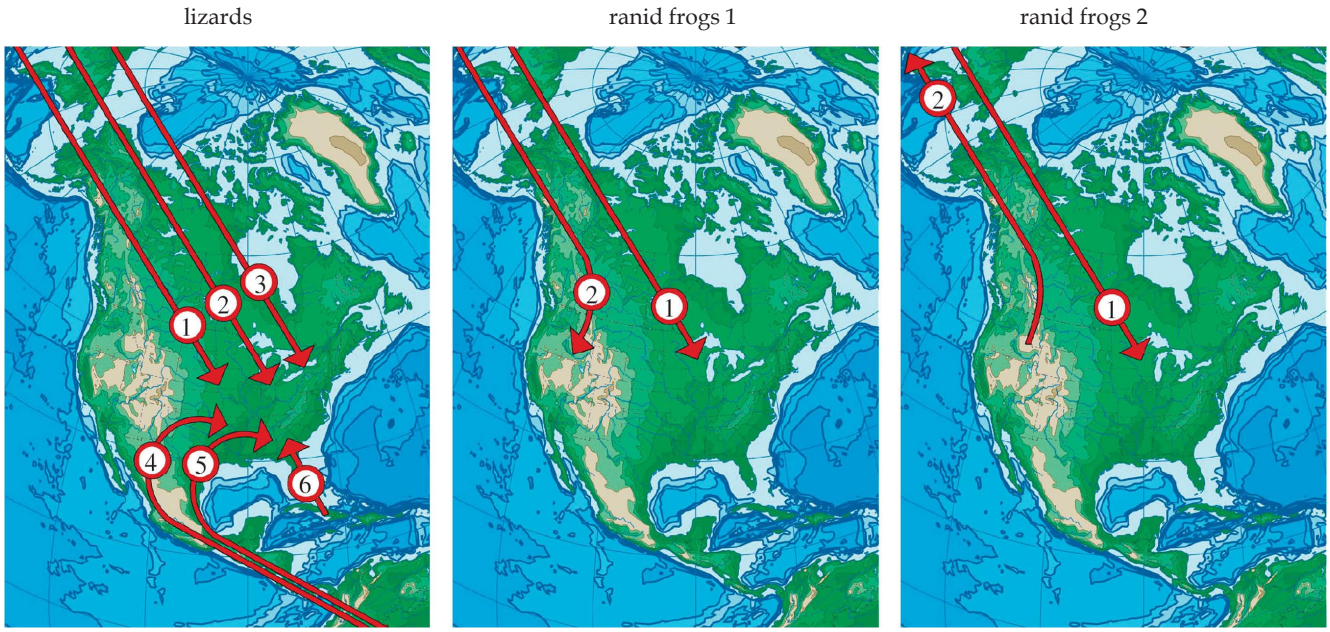


Figure 2. Dispersal of lizards and frogs into continental North America. Eleven of the 14 species of lizards found in eastern North America are derived from three dispersal events from Asia: (1) *Eumeces,* (2) *Scincella,* and (3) *Ophisaurus*. Three independent dispersal events from the neotropics explain distributions of three additional taxa: (4) *Sceloporus*, (5) *Cnemidophorus*, and (6) a West Indian lineage of *Anolis*. Two dispersal events across Beringia explain the occurrence of ranid frogs in North America. In one hypothesis, both lineages of North American ranids independently dispersed from Asia to (1) eastern and (2) western North America, respectively. Alternatively, there may have been (1) a single dispersal event from Asia to North America, then following divergence of eastern and western North American taxa (2) a subsequent dispersal back to Asia (see text).

Table 1. North American lizard and frog diversity east of the Mississippi River.

	Family	Origin	No. of species [a]	Reference
Lizards				
Ophisaurus	Anguidae	Asian	4	Macey et al. (1999)
Eumeces	Scincidae	Asian	6	this study
Scincella	Scincidae	Asian	1	this study and Honda et al. (2003)
Anolis	Iguanidae	neotropical	1	Jackman et al. (1999)
Sceloporus	Iguanidae	neotropical	1	Wiens & Reeder (1997)
Cnemidophorus	Teiidae	neotropical	1	Reeder et al. (2002)
Frogs				
Rana	Ranidae	Asian	14	this study
Bufo	Bufonidae	not determined	5	Graybeal (1997)
Acris	Hylidae	neotropical	2	Faivovich et al. (2005)
Hyla	Hylidae	neotropical	7 [b]	Faivovich et al. (2005)
Pseudacris	Hylidae	neotropical	8	Faivovich et al. (2005) and Moriarty & Cannatella (2004)
Gastrophryne	Microhylidae	not studied	1	—
Scaphiopus	Pelobatidae	not determined	1	Garcia-Paris et al. (2003)

[a] Number of species occurring east of the Mississippi River is after Conant & Collins (1998).

[b] Not including polyploid taxa.

groups with East Asian *Scincella* and *Sphenomorphus* with strong support (bootstrap 98%, decay index 14) to the exclusion of West Asian *Ablepharus* and *Asymblepharus,* which form a monophyletic group (bootstrap 100%, decay index 27). North American members of the scincine genus *Eumeces* appear monophyletic with weak support (bootstrap less than 50, decay index 2), yet they are strongly grouped with East Asian *Eumeces* (*E. capito* and *E. quadrilineatus*, bootstrap 100, decay index 30).

North American ranid frogs also do not form a monophyletic group. Eastern North American ranids (*R. catesbeiana, R. sylvatica, R. areolata,* and *R. pipiens*) and *R. warszewitschii* from Costa Rica together form a clade (bootstrap 74, decay index 10). Western North American ranids form a separate monophyletic group (bootstrap 99, decay index 11), the *R. boylii* species group (Macey *et al*. 2001). Among Eurasian *R. temporaria* and *R. japonicus* species groups form a clade (bootstrap 100, decay index 12) that is the sister taxon to the western North American *R. boylii* species group (bootstrap 87, decay index 10). All other ranids sampled are phylogenetically outside a group comprising eastern North America, western North America and the *R. temporaria–R. japonicus* clade.

4. Discussion

Our results identify several intercontinental dispersals that contributed to the current distributions of the lizards and frogs examined here. Among lizards, North American *Eumeces* group with East Asian *Eumeces* to the exclusion of all other Northern Hemisphere scincid lizards, indicating a dispersal event across Beringia from Asia (Figure 2). The North American species of *Scincella* is nested within Asian taxa indicating an additional dispersal event from Asia to North America.

Among ranid frogs, two clades of North American species are identified: one corresponding to the *R. boylii* group of western North America and another consisting of eastern North American taxa plus the single Neotropical species *R. warszewitschii*. The North American *Rana* do not form a monophyletic group. The *R. boylii* species group is the sister taxon to the *R. temporaria–R. japonicus* clade, and two equally parsimonious interpretations can explain dispersals across Beringia. One hypothesis is that separate dispersals across Beringia from Asia established the eastern and western North American clades, with the eastern North American dispersal preceding the one that established the *R. boylii* group in western North America. Alternatively, a single dispersal event from Asia to North America may have occurred followed by vicariant separation of eastern and western North American forms and a subsequent dispersal from western North America back to Asia to establish the *R. temporaria–R. japonicus* clade.

There are 14 native continental species of lizards in eastern North America (east of the Mississippi River; Conant & Collins 1998; Table 1). Here, we have determined that ancestral lineages of the six *Eumeces* species and of the single *Scincella* species are both of Asian origin. Macey *et al*. (1999) showed that the ancestral lineage of four eastern North American *Ophisaurus* species is of Asian origin. The three remaining lizard taxa occurring in continental eastern North America, from separate taxonomic groups, are derived from the neotropics: *Anolis* (West Indies; Jackman *et al*. 1999), *Cnemidophorus* (Reeder *et al*. 2002), and *Sceloporus* (Wiens & Reeder 1997). Hence, 11 of the 14 eastern North American lizard species descend from ancestral lineages representing three dispersal events across Beringia. The origins of the 38 frog taxa in eastern North America (Conant & Collins 1998) are less well understood than lizards. All 14 *Rana* species appear to descend from a single dispersal event from Asia because our sampling includes members of all eastern North American species groups. The 17 hylid frogs occurring east of the Mississippi River are descended from a neotropical ancestor, and the North American taxa gave rise to the Eurasian species through dispersal across Beringia (Faivovich *et al*. 2005). Phylogenetic data are not yet available to evaluate geographic origins of the other frog groups in eastern North America.

Eighty per cent of lizard species and at least a third of frog taxa occurring east of the Mississippi River are derived from four independent dispersal events across Beringia. The contribution of Asian faunal elements to North America is a dominant theme in the assembly of the eastern North American fauna.

Acknowledgments

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Supplementary Materials: Aligned DNA Sequences and Maximum-Likelihood Results *(following pages)*

Appendix A. Aligned nucleotide data (1933 positions) for scincid lizards including museum and GenBank numbers.
Appendix B. Aligned nucleotide data (2126 positions) for ranid frogs including museum and GenBank numbers.
Appendix C. Maximum likelihood (ML) analyses

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Appendix A

Aligned nucleotide data (1933 positions) for scincid lizards:
Sequences are presented as light-strand sequence and tRNA secondary structure is designated above the sequence. Stems are indicated by arrows in the direction encoded: AA=amino acid-acceptor stem, D=dihydrouridine stem, AC=anticodon stem, T=TyC stem. The tRNA anticodons are designated COD. Asterisks indicate the unpaired 3' tRNA position 73. Periods represent bases located outside stem regions; 1 depicts the first codon position of protein-coding sequences. STP or ST represents stop codons. OL represents the replication origin for the light strandAll voucher specimens are deposited in the California Academy of Sciences (CAS) in San Francisco, the Museum of Vertebrate Zoology (MVZ), University of California at Berkeley, or the United States National Museum (USNM), Washington DC. The list of taxa first includes the voucher number followed by the GenBank number. Locality data are also included in GenBank files. Excluded positions are 238-242 256-263 316-319 1492-1500 1514-1523 1723-1751 1765-1773 1805-1807 1821-1831 1845-1852 1884-1888.

Eremias grammica	CAS179206, AY607272
Platysaurus capensis	CAS193465, AY607273
Mabuya aurata	CAS179697, AY607274
Chalcides ocellatus	MVZ-RM10474, AY607275
Eurylepis taeniolatus	CAS184460, AY607276
Novoeumeces schneideri	CAS184459, AY607277
Scincus scincus	MVZ-RM10473, AY607278
Ophiomorus punctatissimus	MVZ230221, AY607279
Ablepharus pannonicus	CAS185230, AY607280
Asymblepharus alaicus	CAS199525, AY607281
Asymblepharus sikimmensis	CAS177484, AY607282
Sphenomorphus indicus	MVZ216618, AY607283
Scincella rupicola	MVZ-V-393, AY607284
Scincella lateralis	MVZ-RM10650, AY607285
Scincella tsinlingensis	MVZ216887, AY607286
Scincella potanini	CAS194923, AY607287
Eumeces quadrilineatus	MVZ230445, AY607288
Eumeces capito	MVZ208762, AY607289
Eumeces gilberti	MVZ228175, AY607290
Eumeces skiltonianus	MVZ228181, AY607291
Eumeces egregius	MVZ150131, AY607292
Eumeces anthracinus	MVZ-RM10668, AY607293
Neoseps reynoldsi	no voucher, AY607294
Eumeces brevirostris	MVZ164772, AY607295
Eumeces callicephalus	MVZ237353, AY607296
Eumeces inexpectatus	MVZ137529, AY607297
Eumeces obsoletus	MVZ137633, AY607298
Eumeces multivirgatus	USNM 561174, DQ005638
Eumeces fasciatus	MVZ-RM10649, AY607299
Eumeces laticeps	MVZ-RM10647, AY607300

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1-50
Qualifiers1               ..................................................
Qualifiers2               1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1.
Eremias_grammica          ATTTTATTTTTTAGTCCTCCTGCAACACTACAAACAGAACTATTTTCCAT
Platysaurus_capensis      CTAATATTTTTAAACCCGGGCAAT---ATTCAACCAGACCTATTCTCAGC
Mabuya_aurata             ATTCTATTCCTAAACCCAGGAAACCTCTTACACCCCGACACATTCACAAT
Chalcides_ocellatus       ATTCTATTTATGAACCCAGGAACTGCCCTGCTACCAGACACATTCACAAT
Eurylepis_taeniolatus     GTCCTGTTCCTAAACCCTGGAACCTTTACACACCCGGACATATTTACCAT
Novoeumeces_schneideri    GTCCTATTTCTAAATCCAGGGAGCATAACCCACCCCGACCTGTTCCCAAT
Scincus_scincus           ATCTTATTTATAAGCCCAGAGAGCCCCGCCAACCCAGACCTATTCCCTAT
Ophiomorus_punctatissimus ATTTTATTTTTAAACCCAGGAAATCTGACACACACTGACATATTTCCAAT
Ablepharus_pannonicus     ATTATTTTCCTAAACCCTGGGATATCGACTCACCCTAATATTTTCCCAAT
Asymblepharus_alaicus     ATCCTCTTCTTTAACCCAGGTAAGCCTACTCACCCAACTATATTCCCGCT
Asymblepharus_sikimmensis ACCATCTTCTTTAACCCAAGTACATCTTTACACCCAGATATATTCTCAAT
Sphenomorphus_indicus     ATCTTGTTCCTTAACCCAGGAAAC---GCCTCACCAAACATATTTCCAAT
Scincella_rupicola        ATCCTGTTTATCAACCCAGGAAAC---ACAGATCCAAATATATTCTCAAG
Scincella_lateralis       ATCTTATTCCTTAACCCAGGAAAT---ACTCACCCAAATATATTTTCATT
Scincella_tsinlingensis   GTCTTATTTATTAACCCAGGAAGC---ACACACCCTGATTTATTCCCAAT
Scincella_potanini        GTTTTGTTTCTTAACCCAGGGGGC---ACTCATCCCGACATGTTCTCAAT
Eumeces_quadrilineatus    ATTCTATTTATTAATCCCGGAGTAACAACACACCCGGACACATTCCCACT
Eumeces_capito            ACCCTATTTCTCAGCCCGAGCACAACATTACAACCAGATATATTTCCAAT
Eumeces_gilberti          ATCCTCTTTATTAACCCCGGAACAACGCTCCCCCCTGATATATTCCCAAT
Eumeces_skiltonianus      GTTCTCTTTATTAACCCTGGAACAGCACTTCCCCCTGACATATTTCCAAT
Eumeces_egregius          ATTTTATTTATTAACCCTGGGACCGCAATTCACCCAGACATGTTTCCGAT
Eumeces_anthracinus       ATCTTATTTATCAACCCTGGAACTATAATGCCACAAGACATATTCCCAAT
Neoseps_reynoldsi         ATTTTATTTATTAACCCAGGAACCACAATCCACCCAAACATATTCCCAAT
Eumeces_brevirostris      ATCCTATTTATCAACCCAGGAACAATTACACACCCGGACATATTTCCCGC
Eumeces_callicephalus     ATCTTGTTCGTCAACCCCGGGACAACAGTCAGCCCAGACACATTCCCAAT
Eumeces_inexpectatus      ATCCTGTTCATCAACCCCGGGGCAGCAACCCCCCCCGACATCTTCCCAAT
Eumeces_obsoletus         ATTCTGTTCATCAACCCAGGAGCAACAACCAGCCCAGACATGTTCCCAAT
Eumeces_multivirgatus     ATTCTATTTATTAACCCCGGAATAACAACCCACCCAGACACATTCCCAAT
Eumeces_fasciatus         ATCCTATTTATCAACCCCGGAACAACAACCTCTCCCGACACATTCCCAAT
Eumeces_laticeps          ATCCTATTTATCAACCCCGGAACAACAACCTCTCCCGACACATTCCCAAT
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51-100
Qualifiers1                 ..................................................
Qualifiers2                 .1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1
Eremias_grammica            TAGCCTATTTACTAAAATTCTTCTATTAACACTTCTATTTCTTTGAGTCC
Platysaurus_capensis        AAACATCATATATAAAACCATACTTCTCTCAATACTATTCCTATGAATCC
Mabuya_aurata               AAATCTTATATTAAAAACAACAGCACTCACCACACTATTTTTATGAACTC
Chalcides_ocellatus         TAACCTCATATTAAAAACCTCCATGCTAACTATTTTATTCTTATGGGTTC
Eurylepis_taeniolatus       TAACCTAATAACAGAAGCATCAACACTAACAATCCTATTTTTATGAGCCC
Novoeumeces_schneideri      AAACCTAATACTAAAAACAATACTACTAACAATACTATTTCTGTGGGCCC
Scincus_scincus             CAACCTAATATTAAAAACAATATTATTAACAATACTATTCCTTTGAACCC
Ophiomorus_punctatissimus   TAACCTAATATTAAAAACATCACTTCTAACAATCACATTTTTATGAACTC
Ablepharus_pannonicus       AAATCTTATACTAAAAACAGTACTCTTGACCACCCTATTTTTATGAATCC
Asymblepharus_alaicus       TAATCTTATACTTACAACAATACTACTGACTACCCTATTTTTATGAGTCC
Asymblepharus_sikimmensis   TAATCTTATACTTAAAACCATGCTATTAACTATCATATTTTTATGAGCCC
Sphenomorphus_indicus       TAACCTTATACTTAAAACTATACTGCTAACAGGCCTTTTCTTATGAACCC
Scincella_rupicola          TAATCTTATACTAAAAACAATAACACTAACAACCCTGTTCCTATGAGCCC
Scincella_lateralis         TAACCTAATCCTCAAATCAATGCTATTAACAACCCTATTTCTATGAACAC
Scincella_tsinlingensis     TAACCTAATACTAAAAACAGTATTACTTACAATTCTATTTTTATGAACAC
Scincella_potanini          TAACTTAATACTAAAGACAATAGTATTAACCACCCTATTTTTATGAACAC
Eumeces_quadrilineatus      CAACCTTATATTAAAAGCAACAGCCCTTACAATTATATTTTTATGAGCCC
Eumeces_capito              CAACCTCATACTAAAAGCATCTGTTCTCACAATTATATTCTTATGAACCC
Eumeces_gilberti            TAACCTTATATCAAAAGCCACAGCACTTACAATTCTGTTCCTGTGAACTC
Eumeces_skiltonianus        CAACCTTATATTAAAAGCCTCAGCACTCACAATTCTGTTCCTATGAACTC
Eumeces_egregius            TAACCTCATGCTAAAAGCATCGGCACTCACAGCCCTATTTTTATGGACCC
Eumeces_anthracinus         CAACCTTATACTAAAAGCATCTACACTCACAATCCTATTTCTATGAACCC
Neoseps_reynoldsi           CAACCTCATACTAAAAGCATCAGCACTCACAATCTTATTTTTATGAACCC
Eumeces_brevirostris        CAACCTCATACTAAAAGCATCCGCACTCACAACCCTCTTCCTATGAGCCC
Eumeces_callicephalus       GAATCTTATATTAAAAGCATCAGCACTCACCATCTTATTCCTGTGGACCC
Eumeces_inexpectatus        AAACCTCATGTTAAAAGCATCTACACTTACAATCCTATTTTTATGGGCGC
Eumeces_obsoletus           AAACCTCATATTAAAGGCAACGGCTCTCACAATCCTATTTCTATGAACTC
Eumeces_multivirgatus       AAACCTCATATTAAAAGCATCAGCACTTACAATCCTGTTTTTATGAACCC
Eumeces_fasciatus           AAACCTTATACTAAAAGCATCAGCACTCACAATCCTATTTTTATGGGCCC
Eumeces_laticeps            AAACCTTATACTTAAAGCATCAGCACTCACAGCCCTATTTTTATGAGCCC
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101-150
Qualifiers1                .................................................
Qualifiers2                ..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..
Eremias_grammica           GAGCCTCTTACCCTCGATTTCGCTACGACCAACTTATACACCTTCTATGA
Platysaurus_capensis       GATCATCATACCCCCGACTCCGATACGACCAACTAATACACCTCCTATGA
Mabuya_aurata              GAGCATCATACCCACGATTCCGATACGATCAATTAATACATTTATTATGA
Chalcides_ocellatus        GAGCTTCCTACCCACGATTTCGTTATGATCAGCTAATACACCTTCTATGA
Eurylepis_taeniolatus      GAGCCTCATACCCCCGATTTCGATACGACCAACTAATACACCTCCTATGA
Novoeumeces_schneideri     GAGCCTCGTACCCACGTTTCCGATATGATCAGCTCATACACCTACTATGA
Scincus_scincus            GCGCCTCCTATCCACGGTTCCGATACGACCAATTAATACACCTATTATGA
Ophiomorus_punctatissimus GAGCATCATACCCTCGCTTTCGATACGACCAACTAATACACCTATTATGA
Ablepharus_pannonicus      GGGCAGCATACCCACGATTTCGCTATGATCAACTAATACACCTCCTATGA
Asymblepharus_alaicus      GAGCCGCATACCCCCGATTCCGCTACGACCAACTAATACACCTATTATGA
Asymblepharus_sikimmensis GAGCAGCATACCCCCGATTCCGCTATGACCAATTAATACATCTTTTATGA
Sphenomorphus_indicus      GAGCATCATACCCCCGCTTCCGATATGACCAACTAATACACCTTCTATGA
Scincella_rupicola         GAGCATCCTACCCCCGCTTTCGATATGACCAACTAATACACCTCTTATGA
Scincella_lateralis        GAGCATCATACCCACGATTCCGATACGATCAACTAATACACCTGCTATGA
Scincella_tsinlingensis    GTGCATCATACCCCCGATTCCGGTATGACCAACTAATACACCTCTTATGA
Scincella_potanini         GAGCATCATACCCCCGTTTCCGATACGACCAATTAATGCACCTACTATGA
Eumeces_quadrilineatus     GAGCCTCCTACCCCCGTTTCCGATACGACCAACTCATGCACCTCTTATGA
Eumeces_capito             GGGCCTCTTACCCGCGCTTCCGATATGACCAACTCATACACCTTTTGTGA
Eumeces_gilberti           GAGCCTCCTACCCACGCTTCCGATACGACCAACTCATACATCTTTTATGA
Eumeces_skiltonianus       GAGCCTCCTACCCACGCTTCCGATATGATCAACTCATACACCTTTTATGA
Eumeces_egregius           GAGCCTCTTACCCCCGTTTTCGTTATGACCAACTAATACACCTCTTATGA
Eumeces_anthracinus        GAGCCTCTTATCCACGCTTTCGATACGACCAGCTCATGCACCTCCTATGA
Neoseps_reynoldsi          GAGCCTCCTACCCGCGCTTCCGATATGACCAATTAATACACCTTCTATGA
Eumeces_brevirostris       GAGCCTCCTACCCACGCTTCCGATACGACCAGCTCATGCACCTCTTATGA
Eumeces_callicephalus      GCGCCACCTACCCGCGCTTCCGATACGACCAACTCATACACCTACTATGA
Eumeces_inexpectatus       GAGCCTCCTACCCCCGCTTCCGATATGACCAACTCATGCACCTTTTATGA
Eumeces_obsoletus          GAGCCTCCTACCCCCGCTTCCGATACGATCAACTCATGCACCTATTATGA
Eumeces_multivirgatus      GAGCCTCCTATCCCCGCTTCCGATATGACCAACTCATACACTTATTATGA
Eumeces_fasciatus          GAGCCTCCTACCCCCGCTTCCGATATGACCAGCTCATACACTTATTATGA
Eumeces_laticeps           GAGCCTCCTACCCCCGCTTCCGATATGACCAGCTCATACACCTACTATGA
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151-200
Qualifiers1                .................................................
Qualifiers2                1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1.
Eremias_grammica           AAACAGTTTCTCCCAATTACACTAGCACTTTACCTGTGATACATTGCACT
Platysaurus_capensis       AAAAACTTCCTCCCCCTCACCCTAGCACTATGCCTCCTATACATCTCACT
Mabuya_aurata              AAAAACTTCCTACCTCTAACCTTAGCCCTATTCCTGTGACACACCACATT
Chalcides_ocellatus        AAAACATTCCTGCCACTAACCCTAGCCATATTCCTATGGCACACTTCCTT
Eurylepis_taeniolatus      AAAAATTTCCTCCCGCTCACACTTGCCCTATTCCTATGACACACCTCATT
Novoeumeces_schneideri     AAAAACTTCCTACCCCTCACACTAGCCCTATTCATATGACACACTTCATT
Scincus_scincus            AAAAACTTTTTACCTCTGACCCTAGCCTTATTTATCTGACACGTCTCGTT
Ophiomorus_punctatissimus AAAAACTTCTTACCATTAACACTAGCCTTCTTCCTTTGGCATACATCATT
Ablepharus_pannonicus      AAAAATTTTCTCCCACTCACCCTAGCTTTATTCCTTTGACATGTTTCACT
Asymblepharus_alaicus      AAAAATTTCCTCCCATTAACCCTAGCACTATTTTTATGGCATGTATCATT
Asymblepharus_sikimmensis AAAAACTTCCTCCCACTAACCTTAGCCTTATTTCTTTGACATGTTTCATT
Sphenomorphus_indicus      AAAAACTTTCTACCTGTTACCCTAGCTATATTTTTATGACACGCCTCCTT
Scincella_rupicola         AAAAACTTCCTACCCCTCACCCTGGCCCTATTCTTATGACACACCTCATT
Scincella_lateralis        AAAAACTTCCTACCTATTACATTAGCCCTACTACTATGACACACTTCTTT
Scincella_tsinlingensis    AAAAACTTTCTGCCTATCACACTAGTAATATTCCTATGACACACCTCCTT
Scincella_potanini         AAAAACTTCCTGCCTATCACCCTAGTTATATTCTTATGACACACCTCCTT
Eumeces_quadrilineatus     AAAAACTTCCTACCACTCACACTCGCCCTATTCCTATGACATGTATCATT
Eumeces_capito             AAAAACTTCCTCCCCCTCACACTTGCCCTATTCTTATGGCACGTCTCATT
Eumeces_gilberti           AAAAACTTTCTTCCCCTTACACTCGCCCTATTTATATGACACGCCTCATT
Eumeces_skiltonianus       AAAAACTTCCTCCCCCTCACACTCGCCCTCTTTATATGACATGTCTCATT
Eumeces_egregius           AAAAACTTTCTCCCTATCACGCTTGCCGTATTTATATGACACGCCTCATT
Eumeces_anthracinus        AAGAACTTTCTCCCAATCACACTCGCCCTATTTCTATGACACACCGCACT
Neoseps_reynoldsi          AAAAACTTTCTCCCCATTACACTCGCCCTATTTCTATGACACACCTCATT
Eumeces_brevirostris       AAAAACTTTCTCCCCCTCACACTCGCTTTGTTTTTATGACACGTCTCATT
Eumeces_callicephalus      AAAAACTTCCTTCCCATCACATTAGCCCTATTTCTATGACACGTCTCATT
Eumeces_inexpectatus       AAAAACTTCCTACCTATCACACTAGCCCTCTTTCTATGACACACCTCATT
Eumeces_obsoletus          AAAAACTTCCTCCCTATCACACTAGCCCTATTTCTATGACACACCTCATT
Eumeces_multivirgatus      AAAAATTTTCTCCCTATCACACTAGCCCTATTTTTATGACACACCTCGTT
Eumeces_fasciatus          AAAAACTTCCTCCCCCTCACACTAGCCCTATTTTTATGACACACATCATT
Eumeces_laticeps           AAAAACTTCCTCCCTATCACACTAGCCCTATTTTTATGACACACATCATT
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201-250
Qualifiers1                .........................................ILE.....
Qualifiers2                .1..1..1..1..1..1..1..1..1..1..STP.....AA>>>>>.
Eremias_grammica           TCCCATTACATTAGCAGGTCTCCCACCTATAAACTAGCACCCGGATGTGT
Platysaurus_capensis       TCCAACCTCACTTTCAGGAATCCCCCCCCAACACTA------GAAACTGT
Mabuya_aurata              TCCAATCACGCTATCAGGATTACCCCCACAA---TAACA---GGAAGTGT
Chalcides_ocellatus        CCCGACTACACTATCTGGATTACCACCACAA---TAACA---GGAAATAT
Eurylepis_taeniolatus      TCCAATCGCAATATCAGGGCTCCCACCACAA---TAACAA--GGAAGTGT
Novoeumeces_schneideri     TCCAATAACACTATCAGGGCTACCCCCACAA---TAACA---GGAAATGT
Scincus_scincus            CCCAACAATATTATCAGGCCTGCCCCCACAA---TAACA---GGAAATGT
Ophiomorus_punctatissimus CCCAACAATATTATCAGGACTGCCACCACAA---TAACAAA-GGAATTGT
Ablepharus_pannonicus      CCCAACAATACTATCCGGCTTACCACCACAA---TAACA---GGAAATGT
Asymblepharus_alaicus      CCCTACAACACTATCAGGCTTGCCCCCACTA---TAAACA--GGAAATGT
Asymblepharus_sikimmensis CCCAACAATACTGTCTGGATTACCACCCCAA---TAATA---GGAAATGT
Sphenomorphus_indicus      TCCAACAATACTAGCCGGCCTACCCCCACAA---TAATTAA-GGAATTGT
Scincella_rupicola         CCCAACAACCCTAGCAGGCCTTCCTCCACAA---TAACA---GGAAGTGT
Scincella_lateralis        TCCAATAATACTAGCAGGCCTACCACCACAA---TAAT----AGAAATGT
Scincella_tsinlingensis    CCCAATTATGTTGTCTGGTCTCCCACCAAGCGGCT-------GGAAATGT
Scincella_potanini         CCCAATAATACTGTCAGGGCTCCCACCTCAG---TAACC---GGAAATGT
Eumeces_quadrilineatus     CCCCACAATACTATCAGGCCTTCCCCCACAA---TAATATAAGGAAATGT
Eumeces_capito             TCCAACAATCCTCTCCGGACTCCCCCCACAA---TAACTA--GGAAATGT
Eumeces_gilberti           TCCAACAACACTCTCCGGACTTCCACCACAA---TAACCAA-GGAAATGT
Eumeces_skiltonianus       TCCAACAACACTTTCCGGACTACCACCACTA---TAACCAA-GGAAATGT
Eumeces_egregius           TCCAACTACGCTCTCCGGGCTCCCACCACAA---TAGTCAA-GGAAATGT
Eumeces_anthracinus        CCCAACATCCTTCTCTGGACTCCCCCCCCAA---TAATCAA-GGAAATGT
Neoseps_reynoldsi          CCCAACGGCTTTCTCCGGACTCCCACCACAA---TAACCAA-GGAAATGT
Eumeces_brevirostris       CCCAGTCACACTCTCCGGACTTCCACCACAA---TAACAA--GGAAATGT
Eumeces_callicephalus      CCCAACAATACTATCAGGGCTTCCTCCACAA---TAATCA--GGAAATGT
Eumeces_inexpectatus       CCCAACAACGCTTTCCGGGCTTCCACCACAA---TAATTAA-GGAAATGT
Eumeces_obsoletus          CCCAACAACGCTCTCCGGACTCCCACCACAA---TAGTTAA-GGAAATGT
Eumeces_multivirgatus      CCCAACAATACTCTCCGGACTCCCACCACAA---TAATCAA-GGAAATGT
Eumeces_fasciatus          CCCCACAACGCTCTCTGGACTCCCTCCACAA---TAATCAA-GGAAGTGT
Eumeces_laticeps           CCCTACAACGCTCTCTGGACTCCCTCCACAA---TAATCAA-GGAAATGT
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251-300
Qualifiers1                .................................................
Qualifiers2                .D>>>........D>>>.AC>>>..COD..AC>>>.....T>>>>.....
Eremias_grammica           GCCCGAGTATTT-AAGGGTTACTTTGATAGAGTAAATTACAGGGATTAAT
Platysaurus_capensis       GCCCGAACGTAT-AAGGACTACTTTGATAGAGTAGAACATAGGGACTAAA
Mabuya_aurata              GCCCGAATGGTCTAAGGATTACTTTGATAGAGTAAAAAACAGAGGTTAAA
Chalcides_ocellatus        GCCTGAATTTT--AAGGGCTACTTTGATAGAGTATTCTACAGGGGTTAAA
Eurylepis_taeniolatus      GCCCGAACACCC-AAGGGTTACTTTGATAGAGTACAACACAGGGGTTAAA
Novoeumeces_schneideri     GCCCGAGCTCCC-AAGGACTACTTTGATAGAGTAACACACAGGGGTTAAA
Scincus_scincus            GCCCGAACGATTTAAGGAATACTTTGATAGAGTAACACACAGGGGTTAAA
Ophiomorus_punctatissimus GCCCGAAAATT--AAGGGTTACTTTGATAGAGTACATTACAGGGGTTAAA
Ablepharus_pannonicus      GCCCGAAACAT--AAGGATTACTTTGATAGAGTAAAATACAGGGACTAA-
Asymblepharus_alaicus      GCCCGAATGAC--AAGGATTACTTTGATAGAGTAAAATATAGGGATTAA-
Asymblepharus_sikimmensis GCCCGAATTAC--AAGGATTACTTTGATAGAGTAAAATAGAGGGGCTCA-
Sphenomorphus_indicus      GCCCGAACTT---AAGGATTACTTTGATAGAGTAAACTATAGAGGTTTAA
Scincella_rupicola         GCCCGAATTTC--AAGGACTACTTTGATAGAGTAAAACACAGAGGTTAAA
Scincella_lateralis        GCCCGACTTC---AAGGATTACTTTGATAGAGTAAAACAAAGGGGTGAAA
Scincella_tsinlingensis    GCCTGAACTTC--AAGGATTACTTTGATAGAGTAAAACATAGAGGTTAAA
Scincella_potanini         GCCCGAATTTT--AAGGGTTACTTTGATAGAGTAAAACACAGAGGTTAAA
Eumeces_quadrilineatus     GCCCGAAACT---AGGGGCTACTTTGATAGAGTAGAACACAGAGGTTAAA
Eumeces_capito             GCCCGAAACT---AAGGGTTACTTTGATAGAGTAAAACACAGAGGTTAAA
Eumeces_gilberti           GCCCGAAAC----AAGGACTACTTTGATAGAGTAGAACACAGGGGTTAAA
Eumeces_skiltonianus       GCCCGAAAC----AAGGACTACTTTGATAGAGTAGAACACAGGGGTTAA-
Eumeces_egregius           GCCCGAAGCCC--AAGGGCTACTTTGATAGAGTAAAACACAGAGGTTAAA
Eumeces_anthracinus        GCCCGAAGTTT--AAGGATTACTTTGATAGAGTAAAATACAGAGGTTAA-
Neoseps_reynoldsi          GCCCGAAACTC--AAGGGCTACTTTGATAGAGTAAATTACAGAGGTCAAA
Eumeces_brevirostris       GCCCGAAACTT--AAGGGCCACTTTGATAGAGTAGAACACAGAGGTTAAA
Eumeces_callicephalus      GCCCGAAACTTT-AAGGGCTACTTTGATAGAGTAAAACACAGAGGTTAAA
Eumeces_inexpectatus       GCCCGAAGCTC--AAGGATTACTTTGATAGAGTAAAACACAGAGGTTAAA
Eumeces_obsoletus          GCCCGAACTC---AAGGGCTACTTTGATAGAGTAGAACACAGAGGTTAAA
Eumeces_multivirgatus      GCCCGAAGCCC--AAGGGTTACTTTGATAGAGTAAAATACAGAGGTTTAA
Eumeces_fasciatus          GCCCGAAACCT--AGGGGTTACTTTGATAGAGTAAAACATAGAGGTTAAA
Eumeces_laticeps           GCCCGAAACCT--AGGGGTTACTTTGATAGAGTAAAACACAGAGGTTAAA
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301-350
Qualifiers1                .............ILE....GLN............................
Qualifiers2                ..T>>>>AA>>>>>*....*<<<<<AA<<<<T.......<<<<T....<<
Eremias_grammica           TACCCCTCACCTCCT----TTAGAAGAATAGGAATTGAACCTACACCTGA
Platysaurus_capensis       GCCCCCTCAGTTTC------TAAAAAGATAGGAATTGAACCTATGCTTGA
Mabuya_aurata              CTCCTCTCACTCCCTA---CTAGAAAAATAGGACACGAGCCTATACCTAA
Chalcides_ocellatus        ATCCCCTTATTTCCTACA-CTAGAAAAACAGGACTTGAACCTGCACCAAA
Eurylepis_taeniolatus      ATCCCCTCACTTCCTTCC-CTAGAAAAACAAGACTTGAACTTGCACCAAA
Novoeumeces_schneideri     ATCCCCTCATTTCCTCA--TTAGAAAAACAGGAACCGAACCTGCACCAAA
Scincus_scincus            ATCCCCTCATTTCCTA---TTAGAAAAACAGGAACTGAACCTGCACCAAG
Ophiomorus_punctatissimus ATCCCCTCATTTCCTA---CTAGAAAAACAGGATACGAACCTGCACTAAA
Ablepharus_pannonicus      CCCCCCTCATTTCCTTTC-CTAGAAAAACAGGACACGAACCTGCACCAAA
Asymblepharus_alaicus      CCTCCCTCATTTCTTATT-TTAGAAAAACAGGACACGAACCTGCACTAAA
Asymblepharus_sikimmensis ACCCCCTCATCTCCTTA--TTAGAAAAACAGGATACGAACCTGTGCCAAA
Sphenomorphus_indicus      ACCCTCTCCTTTCCTA---TTAGAAAAACAGGACACGAACCTGCACATAA
Scincella_rupicola         CTCCTCTCACTTCCCA---ATAGAAAAACAGGATACGAACCTGCACTAAA
Scincella_lateralis        ATCCCCTCATTTC------TTAGAAAAACAGGACACGAACCTGCACCAAA
Scincella_tsinlingensis    ACCCTCTCATTTCCT----ATAGAAAAACAGGACACGAACCTGTGCCAAA
Scincella_potanini         ATCCCCTCATTTCCTG---TTAGAAAGACAGGACACGAACCTGCACCGAA
Eumeces_quadrilineatus     ATCCCCTCATTTCCCACA-TTAGAAAAACAGGACCTGAACCTGCACCAAG
Eumeces_capito             ATCCTCTCATCTCCTA---TTAGAAAAACAGGGTCTGAGCCTGCACTTAA
Eumeces_gilberti           ACCCCCTCTTTTCCTA---ATAGAAAAACAGGTCCCGAACCTGCACTAAA
Eumeces_skiltonianus       ACCCCCTCATTTCCT----ATAGAAAAACAGGATCCGAACCTGCACTAAA
Eumeces_egregius           ATCCTCTCATTTCCCATA-CTAGAAAAACAGGACCTGAACCTGCACCAAG
Eumeces_anthracinus        ACCCTCTCCTTTCCTATA-TTAGAAAAACAGGACCTGAACCTGCACCAAA
Neoseps_reynoldsi          GTCCTCTCATTTCCTATA-CTAGAAAAACAGGACCTGAACCTGCACCAAA
Eumeces_brevirostris       GCCCTCTCATTTCCCCGCACTAGAAAAACAGGACTCGAACCTGTACTAAG
Eumeces_callicephalus      ATCCCCTCATTTCCCACA-CTAGAAAAACAGGAACCGAACCTGCACTAAG
Eumeces_inexpectatus       ACCCTCTCATTTCCTCAA-TTAGAAAAACAGGGTCCGAACCTGCACTAAG
Eumeces_obsoletus          ACCCCCTCATTTCCTAT--ATAGAAAAACAGGATCCGAACCTGCACTAAA
Eumeces_multivirgatus      ACCCTCTCATTTCCTATA-CTAGAAAGACAGGACCCGAACCTGCACTAAG
Eumeces_fasciatus          ACCCTCTCATTTCCCACA-CTAGAAAGACAGGATCCGAACCTGCACTAAA
Eumeces_laticeps           ATCCTCTCATTTTCCCACACTAGAAAGACAGGACCCGAACCTGCACCAAA
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351-400
Qualifiers1                .....................................GLNMET.......
Qualifiers2                <AC..COD..<<<AC.<<<D.......<<<D..<<<<<AAA>>>>>..D>
Eremias_grammica           GATCCCAAAACTCTCTGTACTACCTCTATACTACCTTCCAGTAAAGTCAG
Platysaurus_capensis       GAACCCAAAATTCTCCGTACCTCCACTATACTACCCTTTAGTAAAGTCAG
Mabuya_aurata              GGGCCCAAAACCCCTCGTACTACCATTATACTATTTCCTAGTAAAGTCAG
Chalcides_ocellatus        GAGCTCAAAACCCTTTGTACTCCCACTATACTATTCTCTAGTAAAGTCAG
Eurylepis_taeniolatus      GAGCTCAAAACCCCTTGTACTCCCATTATACTATTTCCTAGTAAGGTCAG
Novoeumeces_schneideri     GAGCTCAAAACCCTCCGTACTTCCACTATACTATTTTCTAGTAAAGTCAG
Scincus_scincus            GAGCCCAAAACCCCCCGTACTTCCATTATACTATTTTCTAGTAAAGTCAG
Ophiomorus_punctatissimus GAGCTCAAAACCCTCTGTACTTCCACTATACTATTTTCTAGTAAAGTCAG
Ablepharus_pannonicus      GAGCTCAAAACCCTCTGTACTTCCTCTATACTACTTTCTAGTAAAGTCAG
Asymblepharus_alaicus      GAGCTCAAAACCCTTCGTACTTCCACTATACTACTTTCTAGTAAAGTCAG
Asymblepharus_sikimmensis GAGCTCAAAACCCTTAGTACTTCCACTATACTATTCTCTAGTAAAGTCAG
Sphenomorphus_indicus      GGGCTCAAAACCCTCCGTACTCCCACTATACTATTTTCTAGTAAAGTCAG
Scincella_rupicola         GGGCTCAAAACCCCCTGTACTTC-ATTATACTACTTTCTAGTAAAGTCAG
Scincella_lateralis        GGGCCCAAAACCCTATGTACTTC-TCTATACTATTTTCTAGTAAAGTCAG
Scincella_tsinlingensis    AGGCCCAAAACCCTTTGTACTTC-ATTATACTACTTTCTAGTAAAGTCAG
Scincella_potanini         AGGCCCAAAACCCTTCGTACTCC-ACTATACTACTCTCTAGTAAGGTCAG
Eumeces_quadrilineatus     GGGCTCAAAACCCCCCGTACTTCCACTATACTATTTTCTAGTAAAGTCAG
Eumeces_capito             GGGCCCAAAACCCTTTGTACTTCCACTATACTATTTTCTAGTAAAGTCAG
Eumeces_gilberti           GGGCCCAAAACCCTCTGTACTTCCACTATACTACTTTCTAGTAAAGTCAG
Eumeces_skiltonianus       GGGCCCAAAACCCTCTGTACTCCCACTATACTACTTTCTAGCAAAGTCAG
Eumeces_egregius           AGGCTCAAAACCCCTCGTACTTCCACTATACTATTTTCTAGTAAAGTCAG
Eumeces_anthracinus        GAGCTCAAAACCCTCTGTACTTCCACTATACTATTTTCTAGTAAAGTCAG
Neoseps_reynoldsi          GAGCTCAAAACCCTCTGTACTTCCACTATACTATTTTCTAGTAAAGTCAG
Eumeces_brevirostris       GGGCTCAAAACCCCGCGTACCTCCACTATACTATTCTCTAGTAAGGTCAG
Eumeces_callicephalus      GGGCTCAAAACCCCTTGTACTTCCATTATACTATTCTCTAGTAAAGTCAG
Eumeces_inexpectatus       GAGCCCAAAACCCCCTGTACTTCCACTATACTATTTTCTAGTAAAGTCAG
Eumeces_obsoletus          GGACTCAAAATCCTCTGTACTTCCACTATACTACTCTCTAGTAAAGTCAG
Eumeces_multivirgatus      GGGCTCAAAACCCCCGGTACTTCCACTATACTACTCTCTAGTAAAGTCAG
Eumeces_fasciatus          GAGCTCAAAACCCTCTGTACTTCCACTATACTACTCTCTAGTAAAGTCAG
Eumeces_laticeps           GAGCTCAAAACCCTCTGTACTTCCACTATACTACTCTCTAGTAAAGTCAG
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401-450
Qualifiers1                 ..................................................
Qualifiers2                 >>.....D>>>.AC>>>..COD..AC>>>....T>>>>.......T>>>>
Eremias_grammica            CTAACTAAGCTCTTGGGCCCATACCCCAAAAATGTTGG-TCAAACCCCTC
Platysaurus_capensis        CTAATTAAGCTCTTGGGCCCATACCCCGAAAATGTTGGTTAAAATCCCTC
Mabuya_aurata               CTAATTAAGCTTTCGGGCCCATACCCCGAAAATGTTGGTTTAACCCCTTC
Chalcides_ocellatus         CTAATTAAGCTTTCGGGCCCATACCCCGAAAATGTTGGTTTAAACCCTTC
Eurylepis_taeniolatus       CTAATTAAGCTTTCGGGCCCATACCCCGAAAATGTTGGTTTAAGCCCCTC
Novoeumeces_schneideri      CTAATCAAGCTCTCGGGCCCATACCCCGAAAATGTTGGTTTAAACCCTTC
Scincus_scincus             CTAATAAAGCTCTCGGGCCCATACCCCGAAAATGTTGGTTTAAATCCCTC
Ophiomorus_punctatissimus   CTAATTAAGCTTTCGGGCCCATACCCCGAAAATGTTGGTTTAAACCCTTC
Ablepharus_pannonicus       CTAATTAAGCTTTCGGGCCCATACCCCGAAAATGTTGGTTTAAACCCCTC
Asymblepharus_alaicus       CTAATAAAGCTTTCGGGCCCATACCCCGAAAATGTTGGTTTAACCCCCTC
Asymblepharus_sikimmensis   CTAATTAAGCTTTCGGGCCCATACCCCGAAAATGTTGGTTTAACCCCCTC
Sphenomorphus_indicus       CTAATTAAGCTTTCGGGCCCATACCCCGAAAATGTTGGTTTAAACCCCTC
Scincella_rupicola          CTAAATAAGCTTTCGGGCCCATACCCCGAAAATGTTGGTTCAACTCCCTC
Scincella_lateralis         CTAACTAAGCTTTCGGGCCCATACCTCGAAAATGTTGGTTTAACCCCTTC
Scincella_tsinlingensis     CTAACTAAGCTTTCGGGCCCATACCCCGAAAATGTTGGTTTAACCCCTTC
Scincella_potanini          CTAATTAAGCTTTCGGGCCCATACCCCAAAAATGTTGGTTTAACCCCTTC
Eumeces_quadrilineatus      CTAATTAAGCTTTCGGGCCCATACCCCGAAAATGTTGGTTTAAACCCCTC
Eumeces_capito              CTAATTAAGCTTTCGGGCCCATACCCCGAAAATGTTGGTTTAAACCCCTC
Eumeces_gilberti            CTAATTAAGCTTTCGGGCCCATACCCCGAAAATGTTGGTTTAAACCCCTC
Eumeces_skiltonianus        CTAATTAAGCTCTCGGGCCCATACCCCGAAAATGTTGGTTTAAGCCCCTC
Eumeces_egregius            CTAATTAAGCTTTCGGGCCCATACCCCGAAAATGTTGGTTTAAACCCCTC
Eumeces_anthracinus         CTAACTAAGCTTTCGGGCCCATACCCCGAAAATGTTGGTTTAAATCCCTC
Neoseps_reynoldsi           CTAATTAAGCTTTCGGGCCCATACCCCGAAAATGTTGGTTTAAATCCCTC
Eumeces_brevirostris        CTAATTAAGCTTTCGGGCCCATACCCCGGAAATGTTGGTTCAAACCCCTC
Eumeces_callicephalus       CTAATTAAGCTTTCGGGCCCATACCCCGAAAATGTTGGTTTAAACCCCGC
Eumeces_inexpectatus        CTAATTAAGCTTTCGGGCCCATACCCCGAAAATGTTGGTTTAAACCCCGC
Eumeces_obsoletus           CTAATTAAGCTTTCGGGCCCATACCCCGAAAATGTTGGTTTAAACCCCGC
Eumeces_multivirgatus       CTAATTAAGCTTTCGGGCCCATACCCCGAAAATGTTGGTTTAAACCCCGC
Eumeces_fasciatus           CTAATTAAGCTTTCGGGCCCATACCCCGAAAATGTTGGTTTAAACCCCGC
Eumeces_laticeps            CTAATTAAGCTTTCGGGCCCATACCCCGAAAATGTTGGTTTAAACCCCGC
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451-500
Qualifiers1                .....MET.ND2.....................................
Qualifiers2                AA>>>>>*.1..1..1..1..1..1..1..1..1..1..1..1..1.
Eremias_grammica           CTTTACTA-ATGAACCCACTAATCTCATCCCTAATACTCTCCAACTTAGC
Platysaurus_capensis       CTCTACTA-ATAAACCCCCACATCCTAACCCTAATGCTCTCAAGCCTAGC
Mabuya_aurata              CTATACTA-ATGAACCCACTTATATATTCACTCATTCTATCAAGCATTGC
Chalcides_ocellatus        CTCTACTA-ATGAACCCAATCATAATAGCCATTATTATCTCAAGCCTAGC
Eurylepis_taeniolatus      CCCTACTA-ATGAACCCAATTATATCATCCATTATCTTGTCAAGCCTGGC
Novoeumeces_schneideri     CTCTACTA-ATGAACCCTCTTATATCATCAGTTATCCTATCAAGCCTAGC
Scincus_scincus            CTCTACTA-ATGAATCCCCTCATATTCTCAATCATTCTGTCCAGCCTAGC
Ophiomorus_punctatissimus CTCTACTAAATGAATCCACTGATAACATCACTAATACTTTCAAGCCTAGC
Ablepharus_pannonicus      CTCTACTA-ATGAGCCCAGTTATAACTTCACTAATTATATCAAGCCTCGC
Asymblepharus_alaicus      CTCTACTA-ATGAATCCAATTATGACCTCACTAATTATCTCAAGCCTAGC
Asymblepharus_sikimmensis CTTTACTA-ATGAACCCTTTAATAACTTCTTTAATTATCTCTAGTTTAGC
Sphenomorphus_indicus      CTCTACTA-ATGAGCCCAATAATAACTTCCCTAATTGTATCAAGCATAGC
Scincella_rupicola         CTCTACTA-ATGAATCCTATTATAACCTCACTAATTATATCTAGCCTAGC
Scincella_lateralis        CTATACTA-ATGAACCCTATAATATCTTCAATTATTTTATCGAGCCTGGC
Scincella_tsinlingensis    CCTTGCTA-ATGAACCCCCTAATATCCTCATTGATCCTTTCAAGCCTCGC
Scincella_potanini         CCCTACTA-ATGAACCCCATTATACTCTCACTAATCATCTCAAGCCTTGC
Eumeces_quadrilineatus     CTCTACTA-ATGAACCCAATTATAACGTCAATTATTCTTTCAAGCCTGGC
Eumeces_capito             CTCTACTA-ATGAACCCGGTAGTATTATCAATTATTCTCTCAAGCCTCGC
Eumeces_gilberti           CTCTACTA-ATGAACCCTATTATATCCTCAATCATAGTTTCAAGCCTAGC
Eumeces_skiltonianus       CTCTGCTA-ATGAACCCTATTATATCATCAATCATAATCTCAAGCTTAGC
Eumeces_egregius           CTCTACTA-ATGAGCCCAGTCATATTATCAATTTTTATTTCAAGTTTAGC
Eumeces_anthracinus        CTCTACTA-ATGAGCCCCCTTATACTATCAATTATTATATCAAGCCTAGC
Neoseps_reynoldsi          CTCTACTA-ATGAATCCAATCATACTGTCAATTATTATCTCAAGTTTAGC
Eumeces_brevirostris       CCTTACTA-ATGAACCCAATCATATCTTCAATCCTTATCTCAAGCCTAGC
Eumeces_callicephalus      CTCTACTA-ATGAACCCAATCATATCATCAATTATTATTTCAAGCTTAGC
Eumeces_inexpectatus       CTTTACTA-ATGAACCCAATTATATTATCAGTCATTATTTCAAGTCTGGC
Eumeces_obsoletus          CTCTACTA-ATGAACCCAATCATAATATCAATCATTATTTCAAGCCTGGC
Eumeces_multivirgatus      CTCTACTA-ATGAACCCGATCATATCATCAATTATTATCTCAAGCCTGGC
Eumeces_fasciatus          CTCTACTA-ATGAACCCAATCATAACATCAATTATTATCTCAAACCTAGC
Eumeces_laticeps           CTCTACTA-ATGAACCCAATCATAACATCAATTATTATCTCAAGCCTAGC
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501-550
Qualifiers1                 ..................................................
Qualifiers2                 .1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1
Eremias_grammica            CCTAGGGGTAATCATTACCGCCACCAGCTTTCACTGATTCCTAGCATGAA
Platysaurus_capensis        CATCGGAACCATCATTACAATATCTAGCACCCACTGACTAATCGCCTGAG
Mabuya_aurata               AACAGGAACAATTATTACAATATCAAGTTTCCACTGACTCATAGCATGAG
Chalcides_ocellatus         CTTGGGCACAGTCATTACAATATCGAGCTACCACTGAATATTGGCCTGAA
Eurylepis_taeniolatus       ACTGGGCACAATCATTACAATAGCAAGCCACCATTGACTGCTAGCCTGAA
Novoeumeces_schneideri      CCTAGGCACAGTCATTACAGCATCAAGCCACCACTGACTCCTAGCCTGAA
Scincus_scincus             CCTAGGTACCGTCATTACAATATCAAGCCACCACTGACTTCTTGCCTGAA
Ophiomorus_punctatissimus   CTTAGGCTCAATCATCACCATATCTAGCTTCCACTGACTAATTGCTTGAA
Ablepharus_pannonicus       CCTAGGTACCATTATTACATTAGCCAGCTACCACTGACTGCTGGCCTGAG
Asymblepharus_alaicus       CCTAGGCACAATCATCACACTATCAAGCTACCACTGATTATTGGCCTGAA
Asymblepharus_sikimmensis   CCTAGGCACAATCATTACATTATCTAGCCACCATTGATTATTAGCCTGAC
Sphenomorphus_indicus       CCTCGGCACAATTATCACAATATCAAGCTACCATTGACTGCTCGCCTGAA
Scincella_rupicola          TTTAGGCACAGTAATCACCATAACAAGCTACCACTGACTACTAGCCTGAG
Scincella_lateralis         CTTAGGAACAATAATTACAATATCTAGTTACCATTGACTACTAGCCTGAC
Scincella_tsinlingensis     CCTAGGCACAGTCATCACAATATCAAGCTATCACTGACTATTAGCCTGAG
Scincella_potanini          CTTAGGCACAGTTATCACCATATCCAGCTTTCATTGACTACTCGCTTGAG
Eumeces_quadrilineatus      CTTTGGCACTATCATCACCATATCCAGCCACCACTGACTACTGGCTTGAA
Eumeces_capito              CCTGGGCACCATCATTACTATATCCAGCCACCACTGGCTATTAGCTTGAA
Eumeces_gilberti            CCTAGGCACCATCATCACCATATCCAGCCATCATTGATTAATAGCCTGAA
Eumeces_skiltonianus        CTTGGGCACCATTATCACCATATCCAGCCACCACTGACTTCTAGCCTGAA
Eumeces_egregius            CCTCGGCACTATTATTACTATATCCAGCCACCATTGACTATTAGCCTGAA
Eumeces_anthracinus         CCTAGGCACCATCATCACCGCAGCCAGCCACCACTGGCTTATAGCCTGAA
Neoseps_reynoldsi           CCTGGGCACTATCATCACCATAACCAGCCATCATTGACTTCTAGCTTGAA
Eumeces_brevirostris        CTTAGGCACTATTATTACCATATCAAGCTACCATTGACTACTAGCTTGAA
Eumeces_callicephalus       CTTGGGCACCATCATCACCATGTCCAGCCACCATTGACTGCTAGCCTGAG
Eumeces_inexpectatus        CCTAGGCACTATCATTACTATATCCAGCCACCACTGACTGCTAGCCTGAG
Eumeces_obsoletus           CCTGGGCACCATCATCACTATGTCCAGCCACCACTGACTACTAGCCTGAG
Eumeces_multivirgatus       CCTAGGCACCATCATTACCATATCTAGTCACCATTGATTAATGGCCTGAG
Eumeces_fasciatus           CCTGGGCACCATCATTACTATATCTGGACACCACTGACTCATGGCCTGGG
Eumeces_laticeps            CCTGGGCACCATCATTACTATATCTGGGCACCACTGACTCATAGCCTGGG
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551-600
Qualifiers1                .................................................
Qualifiers2                ..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..
Eremias_grammica           TCGGCCTAGAACTAAACACCCTAGCCATTATTCCCATCCTAGCCAAACAA
Platysaurus_capensis       CAGGACTAGAAATTAACACCCTAGCTATCATCCCCCTAATCACCAAACCA
Mabuya_aurata              TCGGACTAGAACTAAATACCCTCGCAATTATTCCAATTATCGCAAAACAA
Chalcides_ocellatus        TTGGCCTAGAACTAAATACCCTGGCGATCATCCCTATTATTGCAAAACAA
Eurylepis_taeniolatus      TTGGACTAGAACTAAACACGCTAGCAATTATTCCAATTATCGCAAAACAA
Novoeumeces_schneideri     TCGGACTAGAAATAAATACACTAGCAATTATTCCAATCATCGCAAAACCA
Scincus_scincus            TCGGACTAGAACTAAATACACTAGCCATCATTCCAATTATCGCAAAACAA
Ophiomorus_punctatissimus  TTGGATTAGAGTTAAACACACTAGCAATTATTCCAATTATCGCAAAACAA
Ablepharus_pannonicus      TTGGCCTAGAACTTAACACCCTAGCAATTATCCCCATCATCGCACAACAA
Asymblepharus_alaicus      TAGGCCTAGAACTCAATGCCTTAGCAATTATTCCCATTATTGCCAAACAC
Asymblepharus_sikimmensis  TAGGTTTAGAACTTAATACACTCGCAATTATTCCCCTAATCGCAGAACAA
Sphenomorphus_indicus      TTGGATTAGAACTCAACACGCTAGCTATTATTCCAATTATCGCAAAGCCC
Scincella_rupicola         TTGGATTAGAACTAAACACACTAGCAATTATCCCAATTATCGCTAAACAA
Scincella_lateralis        TCGGCTTAGAATTAAATACGCTCGCTATTATTCCAATTATTGCTAAACAA
Scincella_tsinlingensis    TTGGGCTAGAACTAAATACCCTTGCCGTTATCCCTGTTATTGCAAAACAC
Scincella_potanini         TGGGGTTAGAACTAAATACCCTTGCCATTATCCCACTTATTGCTAAACTT
Eumeces_quadrilineatus     TTGGATTAGAACTAAACACACTAGCAATTATCCCAATTATTGCAAAACAC
Eumeces_capito             TCGGCCTAGAATTAAACACACTAGCAATCATCCCAATTATCGCAAAACAA
Eumeces_gilberti           TTGGACTAGAACTAAACACACTAGCAATTATTCCCATCATTGCAAAACAA
Eumeces_skiltonianus       TCGGACTAGAACTAAACACACTAGCAATTATCCCCGTCATTGCAAAACAA
Eumeces_egregius           TCGGACTAGAACTAAACACATTAGCAATTATTCCCATTATCGCAAAACAG
Eumeces_anthracinus        TCGGACTAGAACTAAACACACTAGCAATCATCCCTATTATTGCAAAACAA
Neoseps_reynoldsi          TCGGACTAGAAATAAACACACTAGCGATCATCCCCGTCATTGCAAAACAA
Eumeces_brevirostris       TTGGACTAGAGCTAAACACACTAGCAATTATCCCCATCATCGCAAAACAA
Eumeces_callicephalus      TCGGACTAGAATTAAACACATTAGCAATTGTCCCAATTATCGCAAAACAA
Eumeces_inexpectatus       TCGGATTAGAGTTAAACACATTAGCAATCGTCCCAATCATTGCAAAACAA
Eumeces_obsoletus          TCGGCCTAGAATTAAACACACTAGCAATTATCCCCATCATCGCAAAACAA
Eumeces_multivirgatus      TTGGATTAGAATTAAACACACTGGCTATTGTCCCAATTATCGCAAAACAA
Eumeces_fasciatus          TCGGACTAGAATTAAACACACTAGCAGTCATCCCAATTATCGCAAAACAA
Eumeces_laticeps           TTGGGTTAGAATTAAACACACTAGCAATCGTCCCAATTATCGCAAAACAA
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601-650
Qualifiers1                .................................................
Qualifiers2                1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1.
Eremias_grammica           CATCACCCACGTGCCACTGAAGCAGCCACAAAATACTTTATCATTCAAGC
Platysaurus_capensis       AACAACCCTCGCGCCACAGAAGCAGCAACCAAGTATTTTCTCACACAAGC
Mabuya_aurata              CATCACCCACGAGCAACAGAAGCCACAACAAAATATTTCCTCACCCAAGC
Chalcides_ocellatus        CACCACCCACGCGCAACTGAGGCCGCAACAAAATACTTCCTCACCCAAGC
Eurylepis_taeniolatus      CACCACCCACGCGCAACAGAAGCAACCACAAAATACTTCCTAACACAAGC
Novoeumeces_schneideri     CATCACCCCCGCGCAACAGAAGCAGCAACAAAATACTTCCTGACCCAAGC
Scincus_scincus            CACCACCCCCGCGCAACAGAAGCAGCAACAAAATACTTTCTCACCCAGGC
Ophiomorus_punctatissimus CACCACCCACGCGCCACAGAAGCCACAACAAAGTACTTTCTAACCCAGGC
Ablepharus_pannonicus      CACCACCCACGGGCAACAGAAGCAGCAACAAAATACTTCTTAACACAAGC
Asymblepharus_alaicus      CACCACCCCCGCGCAACAGAAGCAGCAACAAAATACTTCCTCACCCAAGC
Asymblepharus_sikimmensis CATCACCCACGTGCAACCGAAGCAGCTACAAAGTATTTCCTCACCCAAGC
Sphenomorphus_indicus      CACCACCCCCGTGCAACAGAAGCTACTACAAAATACTTTCTGACACAAGC
Scincella_rupicola         CACCACCCTCGCGCAACAGAAGCTACCACTAAATATTTCCTAACCCAAGC
Scincella_lateralis        CACCACCCTCGCGCTACAGAAGCAGCTACAAAATACTTTTTAATTCAAGC
Scincella_tsinlingensis    CACCACCCCCGAGCAACAGAAGCCACTACTAAATATTTCCTGACCCAAGC
Scincella_potanini         CACCACCCCCGCGCAACAGAAGCTACCACCAAGTACTTCCTAATTCAAGC
Eumeces_quadrilineatus     CACCACCCCCGTGCAACAGAAGCGACAACAAAATACTTCCTCACACAGGC
Eumeces_capito             CACCACCCCCGTGCAACAGAAGCCACAACAAAATACTTCCTTACACAGGC
Eumeces_gilberti           CACCACCCTCGTGCAACAGAGGCCACAACTAAATATTTTCTCACACAAGC
Eumeces_skiltonianus       CACCACCCTCGTGCAACAGAAGCCACAACTAAATACTTCCTTACACAGGC
Eumeces_egregius           CACCACCCCCGCGCAACCGAAGCCACAACTAAGTACTTCCTCACACAAGC
Eumeces_anthracinus        CACCACCCTCGCGCAACCGAGGCTACAACCAAATATTTCCTCACACAAGC
Neoseps_reynoldsi          CACCACTCTCGCGCAATCGAGGCCACAACCAAGTACTTCCTCACACAAGC
Eumeces_brevirostris       CATCACCCCCGTGCAACAGAAGCCACAACCAAATATTTTCTCACACAAGC
Eumeces_callicephalus      CACCACCCACGTGCAGCCGAAGCCACAACTAAATACTTCCTCACACAGGC
Eumeces_inexpectatus       CACCACCCCCGTGCAACAGAAGCCACAACCAAGTACTTCCTCACACAAGC
Eumeces_obsoletus          CACCACCCCCGTGCAACAGAAGCTACAACCAAATATTTTCTAACACAAGC
Eumeces_multivirgatus      CATCACCCCCGCGCAACAGAAGCTACAACCAAATATTTTCTCACACAAGC
Eumeces_fasciatus          CACCACCCTCGCGCAACAGAGGCCACAACCAAATACTTTCTCACACAAGC
Eumeces_laticeps           CACCACCCTCGCGCAACAGAAGCCACAACCAAATATTTTCTCACACAAGC
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651-700
Qualifiers1                .................................................
Qualifiers2                .1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1
Eremias_grammica           AACAGCATCCACCATCATCCTATTCTCAAGCACATTTAATGCTTGACACA
Platysaurus_capensis       AGCTGCCTCCTCAATAATCCTATTCTCAAGCACATTCAACGCATGGCATA
Mabuya_aurata              TACAGCCTCTGCTATAATTCTTTTCGCCAGCACAACAAATGCATGAACAA
Chalcides_ocellatus        TGCCGCCTCAGCCATAGTCTTATTCTCAAGCTCAACCAACGCCTGATCAA
Eurylepis_taeniolatus      AGCAGCCTCAGCAATACTACTGTTCTCCAGCACCATCAACGCATGACATA
Novoeumeces_schneideri     TGCAGCCTCCGCCATACTCCTATTCTCCAGCACCATCAATGCATGATCAA
Scincus_scincus            CGCAGCCTCCGCTATACTCTTATTCTCCGCCACCACCAATGCATGAACAA
Ophiomorus_punctatissimus CGCAGCCTCAGCTATAGTTTTATTTGCTAGCACTACCAATGCCTGACACA
Ablepharus_pannonicus      TGCGGCCTCAGCCATATTACTATTTGCAAGCACCACAAACGCCTGGGCCA
Asymblepharus_alaicus      AGCCGCATCAGCGTTGCTCCTATTCGCAAGTATTATTAATGCTTGATCCA
Asymblepharus_sikimmensis AGCCGCATCAGCACTACTTCTATTTGCCAGCACCACAAACGCCTGACTTA
Sphenomorphus_indicus      AGCAGCCTCCGCCACACTACTATTTTCAAGCACAGTAAACGCCTGGGCAA
Scincella_rupicola         AGCAGCCTCCGCTACAGTATTATTCTCTAGCATAATTAACGCCTGATCAA
Scincella_lateralis        AGCCGCCTCAGCCACAATCCTATTTTCCAGCACAATCAACGCCTGACATA
Scincella_tsinlingensis    AGCTGCCTCAGCCACACTTCTATTCTCAAGCACAATTAATGCTTGATCAA
Scincella_potanini         TGCTGCCTCAGCCACCGTACTGTTTTCTAGTGTAATCAATGCCTGATCTA
Eumeces_quadrilineatus     CGCCGCATCCGCTATAGTCTTATTCTCCAGCACCATCAATGCATGATCAA
Eumeces_capito             CGCTGCCTCCGCCACTGTGCTATTTTCTAGCACTATTAATGCGTGATCAA
Eumeces_gilberti           CGCTGCCTCCGCCACAGTTCTATTCGCCAGCACCATCAATGCCTGATCAA
Eumeces_skiltonianus       CGCCGCCTCTGCCACAGTATTATTCTCCAGCACCATCAATGCCTGATCAA
Eumeces_egregius           TGCAGCCTCCGCCACTGTATTATTCTCCAGCACCATCAATGCCTGATCAA
Eumeces_anthracinus        TGCAGCCTCCGCCACAGTACTATTCTCCAGCACTATTAATGCTTGATCAA
Neoseps_reynoldsi          TGCAGCCTCCGCCACAGTGCTATTTTCCAGCACTATTAATGCCTGATCAA
Eumeces_brevirostris       GGCTGCCTCTGCTACAGTGTTATTCTCTAGCACCATCAACGCTTGATCAA
Eumeces_callicephalus      CGCTGCCTCCGCCACGGTACTATTCGCCAGCACCATTAATGCCTGAACAT
Eumeces_inexpectatus       CGCCGCTTCCGCCACAATCCTATTCGCCAGCACAATTAATGCCTGAACAT
Eumeces_obsoletus          CGCTGCCTCCGCCACAATTCTATTCGCCAGCACCATTAATGCCTGAACAT
Eumeces_multivirgatus      TGCTGCCTCCGCCACAATTTTATTCGCCAGCACCATTAATGCCTGAACAA
Eumeces_fasciatus          TGCTGCCTCCGCCACAATTTTATTCGCCAGCACCATTAATGCCTGAACCA
Eumeces_laticeps           TGCTGCCTCCGCCACAATTTTATTCGCCAGCACCATTAATGCCTGAGCCA
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701-750
Qualifiers1                .................................................
Qualifiers2                ..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..
Eremias_grammica           CCGGAATCTGAGACATCACTCAACTATCCACATTTCCTACTACTGTGATA
Platysaurus_capensis       CTGGCCAATGAGACATTTCACAACTAACAAACGAACCAGCCTGCACCCTA
Mabuya_aurata              CCGGAACATGAGACATCTCACAACTAACAAACCAGCCATCTTGCATTCTA
Chalcides_ocellatus        CCGGCACATGAGACATTACACAAATTACCAACCAAGAAGCCTGTATTATA
Eurylepis_taeniolatus      CCGGAACCTGAGACATTACCCAACTTATATATCCGCCAGCATCCATTATA
Novoeumeces_schneideri     CCGGCACCTGAGACATCCTACAGCTCACAAACCAACCAGCATGCATCATA
Scincus_scincus            CAGGCTCATGAGATATTCCCCATCTCATAAATCAGCCAGCATCTATTATG
Ophiomorus_punctatissimus CAGGAACATGAGACATTATGCAACTCACAAACCAACCCGCATGTATTATA
Ablepharus_pannonicus      CCGGCACCTGAAACATCCTAGAACTCTCAAGTCAACCAGCCTCCATTATA
Asymblepharus_alaicus      CCGGAACCTGAAGCATTATTGAATTTTCTGACCCGCAAGCCTCTATTATA
Asymblepharus_sikimmensis CAGGCACCTGAAATATTATCGAATTATCAAGTCAACCAGCGTCCATTATA
Sphenomorphus_indicus      CAGGAACCTGAGATATTACACAACTAACAAACCAGCCAGCTTGCATTATA
Scincella_rupicola         CAGGAATCTGAGACATTATACAACTCACAAACCTCCCCGCCTGCATCATA
Scincella_lateralis        CAGGAACATGAGACATCTTACAGCTTACAAACCAACCAGCCTGTATTATA
Scincella_tsinlingensis    CAGGCACTTGAGATATTATACAACTCACAAACCAACCAGCCTGTATTATA
Scincella_potanini         CAGGAACCTGAGATATTTCACAGCTCACAAATCAACCAGCCTCTATTATA
Eumeces_quadrilineatus     CAGGAACCTGGGACATCATACAACTGACAAACCAGCCCGCATGCGCCATA
Eumeces_capito             CCGGAGTCTGGGATATCACACAGTTAACAAATCAGCCAGCATGTATCATA
Eumeces_gilberti           CAGGAACATGGGACATTTCACAGCTAACAAACCAACCCGCATGCATCATA
Eumeces_skiltonianus       CAGGAACATGGGACATCTCACAACTAACAAACCAACCCGCATGCATCATA
Eumeces_egregius           CAGGGACCTGAGACATTTTACAGCTAACTAACCAGCCCGCATGCATCATA
Eumeces_anthracinus        CAGGAACATGAGACATCACCCAATTAACCAACCAACCAGCATGTATCACA
Neoseps_reynoldsi          CAGGCACGTGAGACATCTCACAACTAACCAATCAACCCGCATGCATCGTA
Eumeces_brevirostris       CGGGAGCCTGAGACATCTCACAACTAACAAGCCCGCCCGCTTGCACCCTA
Eumeces_callicephalus      CCGGTTCCTGAGACATCTCACAACTAACAAGCCCGCCTGCGTGCACCCTA
Eumeces_inexpectatus       CGGGCTCCTGAGACATTTCACAACTAACAAGCCTACCCGCATGCACCCTT
Eumeces_obsoletus          CGGGCTCCTGAGACATTTCACAACTAACAAACCCCCCCGCTTGCACTCTA
Eumeces_multivirgatus      CAGGCACCTGAGACATCTCACAACTAACAAACCCACCTGCTTGCACCCTA
Eumeces_fasciatus          CAGGCTCCTGAGACATTTCACAACTAACAAACCCGCCTGCTTGCACCCTG
Eumeces_laticeps           CAGGCTCCTGAGACATTTCACAACTAACAAACCCACCTGCCTGCACCCTG
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751-800
Qualifiers1                .................................................
Qualifiers2                1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1.
Eremias_grammica           CTAACAATTGCACTAACCATAAAACTAGGACTAGCACCCATACATTTCTG
Platysaurus_capensis       CTAACCCTTGCCCTAGCCATAAAACTTGGCCTAGCACCACTACACTTCTG
Mabuya_aurata              CTAACAATAGCACTCTCAATAAAACTAGGACTTGCCCCACTACACTTCTG
Chalcides_ocellatus        TTAACAGTAGCTCTATCAATAAAACTAGGACTAGCCCCGCTACACTTCTG
Eurylepis_taeniolatus      CTAACCATAGCCCTTTCAATAAAACTAGGGCTGGCCCCTCTTCACTTCTG
Novoeumeces_schneideri     CTAACAATGGCCTTATCAATAAAGCTCGGACTTGCCCCACTACACTTCTG
Scincus_scincus            CTAACAATAGCACTAGCCATAAAACTAGGTCTTGCCCCACTACACTTCTG
Ophiomorus_punctatissimus CTAGCAATAGCACTATCAATAAAACTAGGATTAGCCCCACTCCACTTCTG
Ablepharus_pannonicus      CTAACCATAGCCCTAGCAATAAAACTAGGACTCGCCCCACTACACTTCTG
Asymblepharus_alaicus      TTAACGACTGCCCTCGCATTAAAATTAGGCCTTGCCCCACTACACTTCTG
Asymblepharus_sikimmensis TTAACTATAGCACTGACAATAAAATTGGGCCTTGCCCCACTCCACTTCTG
Sphenomorphus_indicus      CTAACCATGGCCCTACTTATAAAGCTAGGCTTAGCCCCACTACACTTCTG
Scincella_rupicola         CTAACCCTCGCCCTATCAATAAAACTTGGCCTGGCCCCCATACACTTTTG
Scincella_lateralis        TTAACCTTAGCCTTATCAATAAAACTAGGCCTTGCTCCACTACATTTTTG
Scincella_tsinlingensis    CTAACTATGGCCCTCTCAATAAAACTAGGCCTCGCCCCATTACACTTCTG
Scincella_potanini         TTAACCATAGCCCTATCAATAAAACTTGGCTTAGCCCCCCTACACTTTTG
Eumeces_quadrilineatus     CTAACAATAGCCCTATCAATAAAACTCGGCTTAGCCCCACTCCACTTCTG
Eumeces_capito             TTAACAATAGCCCTGTCGATAAAACTAGGCCTCGCCCCCCTCCACTTCTG
Eumeces_gilberti           TTAACGATGGCACTATCAATAAAACTGGGACTCGCCCCATTACACTTCTG
Eumeces_skiltonianus       TTAACCATAGCACTATCAATAAAACTGGGACTCGCCCCCCTTCACTTCTG
Eumeces_egregius           TTAACAATAGCACTATCAATAAAACTAGGACTGGCCCCCCTACACTTCTG
Eumeces_anthracinus        CTAACAATAGCACTGTCCATAAAACTAGGGCTCGCCCCACTTCACTTTTG
Neoseps_reynoldsi          CTAACAATGGCACTATCAATGAAACTGGGCCTAGCCCCACTTCACTTTTG
Eumeces_brevirostris       TTAACGATGGCACTAGCAATAAAACTGGGCCTCGCCCCACTCCACTTCTG
Eumeces_callicephalus      CTAACAATAGCACTATCAATAAAACTGGGGTTGGCCCCCCTCCACTTCTG
Eumeces_inexpectatus       CTAACAATAGCACTATCAATAAAATTAGGACTCGCCCCCCTTCATTTCTG
Eumeces_obsoletus          CTGACAATAGCACTATCAATAAAACTAGGATTAGCCCCGCTCCACTTCTG
Eumeces_multivirgatus      CTAACAATAGCACTAGCAATAAAACTAGGACTAGCCCCACTCCACTTCTG
Eumeces_fasciatus          CTAACAATAGCACTATCAATAAAACTCGGACTAGCCCCACTCCACTTCTG
Eumeces_laticeps           CTAACAATAGCACTATCAATAAAACTTGGACTAGCCCCACTCCACTTCTG
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801-850
Qualifiers1                .................................................
Qualifiers2                .1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1
Eremias_grammica           ACTTCCCGAAGTAATACAAGGTGTTACCCTTTCATCAGCCCTAATTATTA
Platysaurus_capensis       ACTCCCAGAAGTAATACAAGGGACATCCATCAAAACAACAATAATCATCA
Mabuya_aurata              ATTACCAGAGGTTTTACAAGGGACCTCAATAAAAACAGCACTCATCATTG
Chalcides_ocellatus        ATTACCAGAAGTACTCCAAGGATCAACCTTAAGCACAGCCCTGATTATTA
Eurylepis_taeniolatus      ATTACCAGAAGTACTACAAGGCTCATCACTAAAAACAGCATTAATTATCA
Novoeumeces_schneideri     ACTGCCAGAGGTCCTACAAGCATCCTCACTAAAAACAGCACTTATTATCA
Scincus_scincus            ACTCCCAGAAGTACTACAAGCCTCCCCGCTAAAAACAGCACTAATTATCA
Ophiomorus_punctatissimus ATTGCCAGAAGTACTACAAGGCTCATCACTAAAAACAGCACTAATTATTA
Ablepharus_pannonicus      ACTACCAGAAGTCCTGCAAGGTTCCACCATCAAAACAGCACTAATTATTA
Asymblepharus_alaicus      ATTACCAGAAGTTTTACAGGGCACCACTATACAAACTGCACTAATTATTA
Asymblepharus_sikimmensis ATTACCAGAAGTATTACAAGGCACCACCATGAAAACAGCACTAATCATTA
Sphenomorphus_indicus      ATTGCCAGAAGTCCTACAGGGCTCAACCCTAAAAACAGCACTAGTCATTA
Scincella_rupicola         ACTCCCAGAGGTCCTACAAGGAACCCCTATAAAAACAGCACTTATTATTG
Scincella_lateralis        ACTCCCAGAAGTCTTACAAGGATCAACCATAAAAACAGCACTTATTATTT
Scincella_tsinlingensis    ACTGCCAGAGGTACTCCAAGGCACATCATTAAAAACAGCATTAATTATTG
Scincella_potanini         ACTCCCAGAAGTACTTCAGGGCACTTCCCTAAAAACAGCATTAATTATCA
Eumeces_quadrilineatus     ACTACCAGAAGTGCTCCAAGGCTCCCCACTAAAAACTGCACTAATTATTG
Eumeces_capito             ATTACCAGAAGTCCTACAAGGCACCCCCCTAAACACAGCACTAATCATTG
Eumeces_gilberti           GCTGCCAGAAGTCCTACAAGGCACCCCATTAAAAACAGCACTAATTATTG
Eumeces_skiltonianus       ATTACCAGAAGTCCTACAAGGCACCCCACTAAAAACTGCACTAATTATTG
Eumeces_egregius           ATTACCAGAAGTACTACAAGGTACCCCCCTAAAAACAGCACTCATTATTG
Eumeces_anthracinus        GCTACCAGAAGTACTACAAGGTACGCCACTAAAAACAGCATTAATTATTG
Neoseps_reynoldsi          GCTGCCAGAAGTATTACAAGGCACACCATTAAAGACAGCACTAATCATTG
Eumeces_brevirostris       GCTCCCCGAGGTCCTTCAAGGCACCCCCCTAAAAACAGCACTAGTCATTG
Eumeces_callicephalus      ATTACCCGAGGTCCTACAAGGCACCACACTAAAAACAGCACTAATTATTG
Eumeces_inexpectatus       ACTACCAGAGGTCCTACAGGGCACCCCATTAACAACAGCACTAATCATTG
Eumeces_obsoletus          ATTACCGGAGGTCCTACAAGGCACCCAATTAAAAACAGCATTAATTATTG
Eumeces_multivirgatus      ACTCCCTGAAGTCCTACAAGGCACCCCCCTAAAAACAGCACTTGTCATCG
Eumeces_fasciatus          ACTACCAGAGGTCCTACAAGGCACCCCTCTAAAGACAGCACTTATCATCG
Eumeces_laticeps           ACTACCAGAGGTCCTACAAGGCACCCCTCTAAAGACAGCACTTATCATCG
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851-900
Qualifiers1                .................................................
Qualifiers2                ..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..
Eremias_grammica           CAACATGACAAAAACTACCCCCCATAACTCTACTCTATTTAACTACTCCC
Platysaurus_capensis       CAACATGAATAAAACTGGCACCAATAACCCTCCTCCTATTAATCCACAAC
Mabuya_aurata              CAACATGACAAAAACTAGCACCAATAACCCTACTCTACCTGACATACAAC
Chalcides_ocellatus        CCACCTGACAAAAACTCGCCCCACTAGCACTATTATACCTTACACAAAAC
Eurylepis_taeniolatus      CAACCTGACAAAAACTCGCCCCATTCGCCCTACTATATTTAACACAACAC
Novoeumeces_schneideri     CCACATGACAAAAACTAGCCCCATTAGCCCTACTGTTCCTCACACAAAAC
Scincus_scincus            CCACATGACAAAAACTGGCCCCCCTTGCCCTCTTATACCTCGTACAAAAT
Ophiomorus_punctatissimus CAACATGACAAAAACTAGCCCCAATCTCCCTTCTATACCTCACACACAAC
Ablepharus_pannonicus      CGACATGACAAAAACTTGCCCCACTAGCCCTTCTTTACCTAACACACAAT
Asymblepharus_alaicus      CCACATGGCAAAAACTAGCCCCACTAACCCTTTTTTATTTAACATATAAC
Asymblepharus_sikimmensis CCACATGACAAAAACTAGCCCCATTAGCCCTATTATACTTAACATATAGT
Sphenomorphus_indicus      CTACATGACAAAAACTAGCCCCAATAGCCCTTCTATATCTAACCCACCAC
Scincella_rupicola         CAACTTGACAAAAACTAGCACCAATAGCCCTACTATTTCTAACTCATCAC
Scincella_lateralis        CAACCTGACAAAAATTAGCCCCAATGACACTTCTATTCTTAACACACCCT
Scincella_tsinlingensis    CAACCTGACAGAAGCTAGCCCCTATAACCCTATTATTCTTAACACACAAC
Scincella_potanini         CAACCTGACAAAAACTGGCCCCCCTAGCCCTTCTATTTTTAACCCACCAC
Eumeces_quadrilineatus     TAACATGACAAAAGATAGCCCCACTAGCACTACTATATTTAACACAAAAC
Eumeces_capito             TTACATGACAAAAACTAGCCCCCCTAGCACTACTATACCTAACACAAAAT
Eumeces_gilberti           TAACCTGACAAAAACTTGCCCCATTAGCCCTACTATACCTCACACAAAAC
Eumeces_skiltonianus       TAACCTGACAGAAACTTGCCCCATTAGCACTACTATACCTAGCACAAAAC
Eumeces_egregius           TTACATGACAAAAGCTGGCCCCCTTAGCACTACTATACCTCACACAAAAT
Eumeces_anthracinus        TTACATGACAAAAACTAGCCCCCCTAACATTACTGTACCTCACACAAAAT
Neoseps_reynoldsi          CCACCTGACAGAAGCTGGCCCCCTTAGCACTACTATACCTCACACAAAAC
Eumeces_brevirostris       TGACATGACAAAAACTGGCCCCCCTAGCACTACTCTATATAACACAAAAC
Eumeces_callicephalus      TAACATGACAAAAACTAGCCCCATTAGCCCTCCTATACCTCACACAAAAC
Eumeces_inexpectatus       TAACATGACAAAAACTAGCCCCCCTCACACTACTATACCTGACACAAAAC
Eumeces_obsoletus          TGACATGACAAAAGCTAGCTCCCCTAGCACTACTGTACCTCACACAAAAC
Eumeces_multivirgatus      TAACATGACAAAAATTGGCCCCCCTAGCGCTTCTGTATCTTACACAAAAT
Eumeces_fasciatus          TAACATGACAAAAACTAGCCCCCCTAGCACTTCTTTACCTCACACAAAAC
Eumeces_laticeps           TAACATGACAAAAACTAGCCCCCCTAGCACTTCTTTACCTCACACAAAAC
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901-950
Qualifiers1                .................................................
Qualifiers2                1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1.
Eremias_grammica           AACCTCCCAACTCCAGTTCTACTTATATTAGCTATAACTTCAACAGTAGT
Platysaurus_capensis       TCCCTTAACCAAACAATCCTACTAACCATGGGAATTCTATCCATCCTAGT
Mabuya_aurata              TCAATCAACTCTACAATCCTACTAACAATAGGAATACTATCAGCTCTAAC
Chalcides_ocellatus        TCATTAAACACACCCATACTATTAACGATAGCAGTCCTATCAACAATCAC
Eurylepis_taeniolatus      TCTATCGACACAACCCTGCTCCTAACAATAGGACTGCTATCCTCCTTAGT
Novoeumeces_schneideri     TCCCTCAACACCACCATTCTCCTAACAATAGGACTTCTATCCACCCTAAC
Scincus_scincus            TCTCTCAATACAACCATCCTACTAACAATAGGACTGACATCAACCTTGAC
Ophiomorus_punctatissimus TCAATAAATACAGCCGTATTATTAACAATAGGCCTAATATCAACTCTGAC
Ablepharus_pannonicus      ACACTACACCCCACAACATTATTAACTATAGCCCTAATATCAAACCTTGT
Asymblepharus_alaicus      TCACTACACCCTATAACACTACTGATTATAGCCCTGCTATCGACCTTCAT
Asymblepharus_sikimmensis ACTTTACACCCTATAACACTATTAACAATAGCCCTTCTATCAAACATTTT
Sphenomorphus_indicus      TCACTACACCCAACAACCCTATTAACAATAGGACTAATATCAACCCTCAT
Scincella_rupicola         TCACTACACCCTACAACCCTCCTGACAATAGGACTACTATCAACCCTCAT
Scincella_lateralis        TCACTACACCCAACAACACTATTATCAATAGGCGTACTATCAATCTTAGT
Scincella_tsinlingensis    TCACTACACCCAACAACCCTACTAACAGTGGGACTTATCTCAACCCTCAC
Scincella_potanini         TCATTACACCCAACAACCCTACTAACAATAGGGCTCCTATCAACACTAAT
Eumeces_quadrilineatus     TCATTGTCAACAACAACCCTATTAACAATAGGACTACTATCAACCCTAAC
Eumeces_capito             TCACTATCCACAATAATCCTTCTAACAATAGGACTTCTCTCCACCCTAGT
Eumeces_gilberti           TCACTATGTACAACAACATTACTAATAATAGGACTTCTATCGACCCTGTT
Eumeces_skiltonianus       TCCCTATCCACAACAACACTATTAATAATAGGACTACTATCGACCCTAAT
Eumeces_egregius           TCACTATCCACAACCACCCTCCTAATAATAGGACTACTATCAACCCTAAT
Eumeces_anthracinus        TCACTGTCTACAACAACCCTCCTAACAATAGGACTACTATCAACCCTAAT
Neoseps_reynoldsi          TCACTATCCACACCAACACTCCTGATAATAGGACTATTATCCGCCTTAGT
Eumeces_brevirostris       TCCCTGTGCACAACAACACTACTAACAATGGGACTCCTATCCACCCTAAC
Eumeces_callicephalus      TCATTATCCACAACAACACTACTAATGATGGGCCTACTGTCAACTTTAAC
Eumeces_inexpectatus       TCACTATGCACAACAACACTACTAATAATAGGGCTACTATCAACTTTAAC
Eumeces_obsoletus          TCACTGTCCACAACAACCCTACTCCTAATAGGACTTCTATCAACTTTAAC
Eumeces_multivirgatus      TCACTATCCACAACGACACTCCTAATAATAGGACTACTATCAACTTTAAC
Eumeces_fasciatus          TCACTATCCACAACAACACTTCTAATAATAGGACTACTGTCAACTTTAAC
Eumeces_laticeps           TCACTATCCACAACAACACTTCTAATAATAGGACTACTATCAACTTTAAC
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951-1000
Qualifiers1                .................................................
Qualifiers2                .1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1
Eremias_grammica           TGGAGGTTGATCAGGGCTCAACCAAACCCAAATACGCAAAATCATAGCCT
Platysaurus_capensis       TGGCGGGTGGGGCGGACTAAATCAAACACAACTGCGAAAAATTATAGGAT
Mabuya_aurata              GGGCGGATGGGGCGGCCTAAACCAGACACAAACACGAAAAATCATGGCAT
Chalcides_ocellatus        CGGAGGTTGAGGGGGCCTTAACCAAACACAAATACGGAAAATTATAGCAT
Eurylepis_taeniolatus      AGGCGGCTGGGGGGGTCTAAACCAAACTCAAACCCGAAAAATCATAGCAT
Novoeumeces_schneideri     GGGCGGATGAGGCGGCCTAAATCAAACACAAACACGAAAAATTATAGCAT
Scincus_scincus            AGGGGGCTGAGGAGGCCTAAATCAAACACAAACTCGAAAAATTATAGCAT
Ophiomorus_punctatissimus AGGCGGATGGGGTGGACTAAACCAAACACAAACACGAAAAATTATGGCAT
Ablepharus_pannonicus      CGGCGGCTGAGGAGGACTAAACCAGACACAAACACGGAAAATTATAGCAT
Asymblepharus_alaicus      CGGCGGTTGAGGCGGCTTAAACCAGACACAAACACGCAAAATTATAGCAT
Asymblepharus_sikimmensis TGGTGGGTGAGGCGGCCTGAACCAAACACAAACACGCAAAATCATAGCAT
Sphenomorphus_indicus      CGGCGGCTGAGGCGGATTAAATCAAACACAGACACGAAAAATCATAGCAT
Scincella_rupicola         CGGAGGATGAGGCGGCCTTAATCAAACACAAATACGAAAAATCATAGCCT
Scincella_lateralis        CGGGGGCTGAGGTGGTTTAAACCAAACACAAACACGAAAAATCATAGCAT
Scincella_tsinlingensis    TGGTGGGTGAGGCGGCCTAAACCAAACACAAACACGAAAAATTATAGCAT
Scincella_potanini         CGGGGGTTGAGGCGGCCTAAACCAGACACAAACACGAAAAATCATAGCAT
Eumeces_quadrilineatus     CGGGGGTTGAGGCGGACTAAATCAAACACAAATACGAAAAATTATAGCAT
Eumeces_capito             CGGCGGGTGAGGCGGCCTAAATCAAACACAAACACGAAAAATTATAGCAT
Eumeces_gilberti           TGGGGGTTGGGGCGGATTAAATCAAACACAAACACGAAAAATTATAGCAT
Eumeces_skiltonianus       TGGGGGCTGAGGAGGACTAAATCAAACACAAACACGAAAAATCATAGCAT
Eumeces_egregius           CGGGGGCTGAGGGGGCTTGAACCAAACACAGACACGAAAAATCATAGCAT
Eumeces_anthracinus        CGGGGGCTGAGGGGGGTTAAATCAAACACAAACACGAAAAATTATAGCAT
Neoseps_reynoldsi          CGGGGGTTGAGGGGGATTAAATCAAACGCAAACACGAAAGATCATAGCGT
Eumeces_brevirostris       AGGGGGGTGGGGGGGACTAAACCAAACACAAACACGAAAGATCATAGCCT
Eumeces_callicephalus      TGGGGGCTGAGGCGGACTCAACCAAACACAAACACGAAAGATCATAGCAT
Eumeces_inexpectatus       CGGGGGCTGAGGCGGACTTAACCAAACACAAACACGAAAAATCATAGCAT
Eumeces_obsoletus          TGGCGGCTGAGGCGGACTCAACCAAACACAAACACGAAAAATCATAGCAT
Eumeces_multivirgatus      TGGAGGCTGAGGCGGGCTCAACCAAACACAAGCACGAAAAATCATAGCAT
Eumeces_fasciatus          CGGGGGCTGAGGCGGACTCAACCAAACACAGGCACGAAAAATCATAGCAT
Eumeces_laticeps           CGGGGGCTGAGGCGGGCTCAACCAAACACAAGCACGAAAAATCATAGCAT
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1001-1050
Qualifiers1                 ..................................................
Qualifiers2                 ..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..
Eremias_grammica            ATTCATCAATTGCACACCTAGGATGGATAGTCGCAGTACTTTCCCTATCG
Platysaurus_capensis        TCTCTTCAATCTCCCACCTAGGCTGAATAACAATAGTACTAATCATCGCC
Mabuya_aurata               TTTCATCAATCGCACACCTCGGATGAATAGCAAGCATTCTAACACTCAAC
Chalcides_ocellatus         TTTCATCCATTGCCCACCTCGGCTGAATAGCAGCAATCCTAACAATCAAC
Eurylepis_taeniolatus       TTTCATCAATTGCCCACTTAGGGTGAATAATCTCCGTACTTACACTAGCC
Novoeumeces_schneideri      TTTCATCAATCGCTCACCTCGGCTGAATGACCGCAGTCGTCACACTAGCC
Scincus_scincus             TTTCATCAATCGCTCACCTGGGATGAATAACAGCAGTTATTTCCCTAGCC
Ophiomorus_punctatissimus   TTTCATCAATTGCACATCTAGGTTGAATAGCATCAATTCTAACATTAGCC
Ablepharus_pannonicus       TTTCCTCAATTGCACACCTCGGCTGAATGGCTGCCATCCTTATATTATCC
Asymblepharus_alaicus       TTTCATCAATTGCCCACTTGGGGTGGATGGCAGCAATCCTCCTGTTAAAC
Asymblepharus_sikimmensis   TTTCCTCCATCGCCCACCTAGGATGAATAGCCTCAATCCTTACAATTTCC
Sphenomorphus_indicus       ACTCCTCAATCGCCCACCTAGGATGAATGACATCAGTTCTAGTAATCTCC
Scincella_rupicola          ACTCATCAATCGCCCACCTCGGCTGAATAGCAACAATTCTTACACTAAAC
Scincella_lateralis         ATTCCTCAATTGCACATATCGGATGGATAGCCGCAATCCTCACACTCGCT
Scincella_tsinlingensis     ACTCATCAATCGCACATCTCGGATGAATAGCAACAATTCTTGTACTAGCC
Scincella_potanini          ATTCATCAATTGCCCATCTCGGATGAATAGCCACAATCCTTACAATAGCC
Eumeces_quadrilineatus      TTTCATCAATCGCCCACCTCGGCTGAATAGCATCAATCCTAACACTAGCC
Eumeces_capito              TCTCATCAATCGCCCACCTGGGCTGAATAGCAGCAATTCTAACACTGTCC
Eumeces_gilberti            TTTCATCAATCGCACATCTCGGATGAATAGCAACAGTCCTAACCCTTGCC
Eumeces_skiltonianus        TCTCATCAATCGCACACCTTGGCTGAATAGCAACAGTCCTAACTCTCGCC
Eumeces_egregius            TTTCATCAATCGCCCACCTAGGCTGAATAGCAGCAATCTTAACACTAGCC
Eumeces_anthracinus         TTTCATCAATCGCCCACCTAGGTTGAATAGCAACAATCTTAACACTCGCC
Neoseps_reynoldsi           TTTCATCAATCGCCCACCTAGGATGAATAGTATCGGTTCTAACCCTGGCC
Eumeces_brevirostris        ATTCTTCAATCGCCCACCTGGGCTGAATAGCAGCAATTCTAACACTCGCC
Eumeces_callicephalus       TCTCATCAATCGCCCACCTGGGATGAATGGCAACAATCATAACACTGGCC
Eumeces_inexpectatus        TCTCATCAATCGCCCACCTAGGATGAATAGCAACAATCCTAACACTAGCC
Eumeces_obsoletus           TTTCATCCATCGCCCACCTGGGATGAATAGCAACCATCCTAACACTAGCC
Eumeces_multivirgatus       TCTCATCAATCGCCCACCTGGGGTGAATGGCTACAGTCCTAACCCTGGCC
Eumeces_fasciatus           TCTCATCAATCGCCCACCTAGGGTGAATAGCAACAATCCTAACCTTGGCC
Eumeces_laticeps            TCTCATCAATCGCCCACCTAGGATGAATAGCAACAATCTTAACCTTGTCC
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1051-1100
Qualifiers1                 ..................................................
Qualifiers2                 1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1.
Eremias_grammica            CAAAACCTCCTATTATTTACATTACTTATTTATATCCTCATAACCTCTTC
Platysaurus_capensis        CCAAACACTCTAATTCTAGCCCTACTAATCTACATCACTATAACCCTCGC
Mabuya_aurata               CCAAACATCCTTATTCTAAACCTACTACTATACATTATTATAACCACCCC
Chalcides_ocellatus         CCTGACATAATACTACTAACCCTAGCACTTTACATCTTAATAACAACCTC
Eurylepis_taeniolatus       CCAAACATCATACTACTAAACCTCGCCCTTTATATTCTAATGACCGCATC
Novoeumeces_schneideri      CCAAAAATTATGCTCCTAAATTTAGCCATCTACGTCTTAATAACTATCGC
Scincus_scincus             CCTAACATCATACTCTTAAACCTAGGCATCTATCTACTAATAACCATTTC
Ophiomorus_punctatissimus   CCTAACATTATACTACTAAATCTAATATTATACCTAATAATAACAATCTC
Ablepharus_pannonicus       CCAAACCTCATACTACTCAACCTAGCACTTTACATCATCATAACAACTCC
Asymblepharus_alaicus       CCAAACATCATACTACTTAATCTGATACTCTATATTCTCCTAACTGCACC
Asymblepharus_sikimmensis   CCAAATATTATGCTACTAAACCTAATAATCTATATTCTAATAACACTCCC
Sphenomorphus_indicus       CCAAATATTATAATCTTAAACTTAGTACTTTATCTGTTAATAACAATTTC
Scincella_rupicola          CCAGACCTTATAATCCTAAACTTAACTATTTATCTCCTTATAACACTCCC
Scincella_lateralis         CCTAATATCTTAATCCTTAATTTAATAATTTACCTAACAATAACTATTTC
Scincella_tsinlingensis     CCAAATCTTTTAATTCTCAACCTAACGATTTACCTAATAATGACACTATC
Scincella_potanini          CCAGACATTATAGTCCTGAACCTAACTATTTACCTATTAATAACACTATC
Eumeces_quadrilineatus      CCGAACATCATGCTACTAAACTTGACACTTTATATCCTAATAACTACCTC
Eumeces_capito              CCAAACATTATACTACTAAACCTCGCACTTTATATCCTTATAACCGCCTC
Eumeces_gilberti            ACAAACATTATACTACTAAACCTAACACTTTACATCCTAATAACAACCGC
Eumeces_skiltonianus        ACAAATATTATACTACTAAACCTTACACTTTACATCCTAATAACCACCGC
Eumeces_egregius            ACAAACATTATATTACTAAACCTAGCACTCTACATCCTAATAACAGCCTC
Eumeces_anthracinus         ACAAATATCCTGCTACTAAACCTAGCACTCTATATCCTAATGACCGCCTC
Neoseps_reynoldsi           ACAAACATTATACTACTAAATTTAACACTCTACATTCTAATAACTACCTC
Eumeces_brevirostris        ACAAACGTCATACTACTTAACCTAGCACTCTACATCCTCATGACCACCTC
Eumeces_callicephalus       CCAAACATCATACTACTAAACTTAACAATCTATATCCTAATAACTGCCTC
Eumeces_inexpectatus        CCAAACATTATACTGCTAAACTTAACACTTTACATCATAATAACCACCTC
Eumeces_obsoletus           CCAAACATTATACTACTAAACCTGACACTCTATATCCTAATAACCACCCC
Eumeces_multivirgatus       CCAAACATTATACTACTAAACCTATCACTCTACATCCTAATAACTACCCC
Eumeces_fasciatus           CCAAACATCATACTACTAAACCTAGTTCTTTACATCCTGATAACCACCTC
Eumeces_laticeps            CCAAACATCATACTACTAAACTTAACCCTCTACATCCTGATAACCACCCC
```

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1101-1150
Qualifiers1                .................................................
Qualifiers2                .1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1
Eremias_grammica           TATGTTTTTAATTCTCATTACCTCTTCATCAAAAACATCTAAAGACCTAG
Platysaurus_capensis       AATATTCACCATCCTCCTCTACACCCAAGCAAAAACAATCGAAAACCTAA
Mabuya_aurata              AATGTTCTTAATGTTAGAACTAACCACATCAAAAACAATTAAAGACCTCA
Chalcides_ocellatus        AACATTCATAATATTAACATTTTCCTCATCAAAAACAATTAAAGACTTAA
Eurylepis_taeniolatus      CACATTCCTCCTCCTAATCTTCCTATCATCAAAAACCATCCAAAGCCTAA
Novoeumeces_schneideri     AACCTTCACAATACTAATATTCCTCTCATCAAAAACCATCAAAGACCTCA
Scincus_scincus            AACCTTTATAATATTAATTCACTTCTCGTCAAAAACTATTCAAGATTTAA
Ophiomorus_punctatissimus AACATTCATATTACTAATCTTTTCCTCATCAAAAAACATTCAAGACCTAA
Ablepharus_pannonicus      CACATTTATGCTCCTTATATTTTCATCAGCAAAAACAATTCAGGACTTAA
Asymblepharus_alaicus      AACATTCATATTACTCATGTTTTCATCAGCAAAAACAGTCCAAGACCTAA
Asymblepharus_sikimmensis CACCTTTATACTTCTTATAATTTCCTCTGCCAAAACAATTCAAGACTTAA
Sphenomorphus_indicus      AATATTTATCTCACTAATATACTCTTCATCAAAAACTATCAAAGATCTCA
Scincella_rupicola         AACCTTCATAATATTAACCCTATTCTTATCAAAAACTATCAAAGACCTAA
Scincella_lateralis        AACATTCATAGTACTAATTTTAACCTCATCAAAAACAATTAAGGACCTCA
Scincella_tsinlingensis    AACATTTACCATACTTATCTTCTCTTCAGCTAAAACTATCAAAGATCTAA
Scincella_potanini         AACATTCACCATATTCATCTTCTCTTCATCCAAAACCACTAAAGACCTTA
Eumeces_quadrilineatus     AACATTTCTACTACTTATATTTACCTCAACCAAAACTATTCAAGACCTCA
Eumeces_capito             AACATTCCTGCTACTTATCTTCTCCTCAGCCAAAACAGTCCAAGACCTCA
Eumeces_gilberti           AACATTCCTACTACTAATAACCACCTCAACCAAAACCATTCAAGACCTAA
Eumeces_skiltonianus       AACATTCCTACTACTAATGACCGCCTCAGCCAAGACCATTCAAGACCTAA
Eumeces_egregius           AACATTTATACTACTAATAAGCACCTCAGCTAAAACTATCCAAGACCTAA
Eumeces_anthracinus        AACATTCCTGCTACTAATGAGCACTTCAGCCAAAACTACCCAAGACCTAG
Neoseps_reynoldsi          AATATTTCTACTACTAACTAGCACTTCAGCCAAAACTATTCAAGACCTAA
Eumeces_brevirostris       AATTTTCCTACTGCTAATAAGCTCTTCAACCAAAACTATCCAAGACCTGA
Eumeces_callicephalus      GATATTTTCACTATTAATGGGCACCTCAGCCAAATCTATTCAAGATTTAA
Eumeces_inexpectatus       GATATTTTTACTACTAATCACCACCTCAGCCAAAACTATTCAAGACCTAA
Eumeces_obsoletus          CATACTCTTACTACTAATAACCACCTCGGCCAAAACCATTCAAGACCTAA
Eumeces_multivirgatus      GATATTCCTACTACTAATGAGCACCTCAACCAAAACCATTCAAGATTTAA
Eumeces_fasciatus          AATATTTTTACTACTAATGAGCACCTCAACCAAAACCATTCAGGATTTAA
Eumeces_laticeps           GATATTTTTACTACTAATGAGCACCTCAACCAAAACCATTCAGGATTTAA
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1151-1200
Qualifiers1                .................................................
Qualifiers2                ..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..
Eremias_grammica           GACAGCTTTGATCAACCTCCCCAACTATTACATCAATTTCCCTAATTACC
Platysaurus_capensis       TATTTACCTGAACAGTGTCCCCCACACTGTCAACTTTCACTATAATTATC
Mabuya_aurata              CAACATCATGAACCATCTCCCCACCCATAACCGCCACAATAATAGCTCTG
Chalcides_ocellatus        CAGCTTCATGAATAATTTCACCAACAACAACAGTACTCATACTTATAGTC
Eurylepis_taeniolatus      CAACCTCCTGAACGATCTCACCCATAACCACCACGCTTATAATGATTTTA
Novoeumeces_schneideri     CAACATCCTGAGCAACTTCCCCAACAATAACCGCACTAATACTGACCCTA
Scincus_scincus            CAACAACCTCAACGGTAACCCCAACAATAATTGCACTTATGCTAGTACTA
Ophiomorus_punctatissimus CAACATCATGGACAATTTCACCACCAACAACAGCCATCATATTAATCTTA
Ablepharus_pannonicus      CAATATCATGAGTAATTTCTCCAACAACAACAGCCCTCATCCTAATATTA
Asymblepharus_alaicus      CAACCTTATGAGTAGTCTCCCCAACAACAACAGCACTTATTTTATTCCTA
Asymblepharus_sikimmensis CAATAACATGACCAACCTCCCCAATAATAACCTCGCTTATCCTAGTACTA
Sphenomorphus_indicus      CAACAACCTGAACAGTTTCCCCAACTATCGCCACCTTAATATTAATCTTA
Scincella_rupicola         CAACAACCTGAACAACCTCCCCAACAACAACAACACTAATATTAATTTTA
Scincella_lateralis        CAACATCATGAGCAATTTCCCCCATACTAGCAGCTTTAATATTAATACTA
Scincella_tsinlingensis    CAACATCATGAGCAATCTCCCCAATAATAACCACTTTAATATTGGTATCA
Scincella_potanini         CAACATCATGAACCATCTCCCCCCTACTAACCGCCTCAATACTAATTTTA
Eumeces_quadrilineatus     CAACCGCCTGAACAATTTCACCACCAATATCAGCCTTTATACTCGCACTG
Eumeces_capito             CAACAACATGAATAGTTTCACCAGCCGTATCCGCCTTTATATTAATACTA
Eumeces_gilberti           CAACAACATGAACAATTTCACCCACTGCAACAGCCCTTATACTCATATTA
Eumeces_skiltonianus       CAACAACATGAACAATTTCACCCACCACAGCAGCCCTTGTACTTACACTA
Eumeces_egregius           CAACAGTATGACCAGTTTCACCTATAATATCGGCCCTCATACTAATACTA
Eumeces_anthracinus        CAACAATGTGAATAGTCTCACCCACAATATCAGCCCTCATACTAATACTA
Neoseps_reynoldsi          CAACAGCATGATCAATCTCACCCACAATTTCAGCCCTTATGCTAGCACTA
Eumeces_brevirostris       CAACAATGTGAGCAGTCTCACCTACAATATCAGCCCTTATACTAATCCTC
Eumeces_callicephalus      CAACAATGTGGGCAATTTCACCTACAATATCAGCCCTAACACTAACACTA
Eumeces_inexpectatus       CAACTCTGTGAGCGATCTCACCTACAATATCAGCCCTAGCCCTAACACTA
Eumeces_obsoletus          CAACTATGTGAGCAATCTCCCCGACAATATCAGCCTCAGCACTAACATTA
Eumeces_multivirgatus      CAACAATAACAGCAATCTCGCCCACAATATCAGCCTTAACACTAACACTA
Eumeces_fasciatus          CAACAATGTGAGCAATCTCACCTACAATATCAGCCCTAACGCTAACACTA
Eumeces_laticeps           CAACAATGTGAGCAATCTCACCTACAATATCAGCCTTAACGCTAACACTA
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1201-1250
Qualifiers1                .................................................
Qualifiers2                1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1.
Eremias_grammica           CTTATCTCACTAGGAGGTCTACCCCCGCTCATTGGATTCTTACCAAAATG
Platysaurus_capensis       CTCCTCTCACTAGGAGGCCTACCGCCCCTCACAGGCTTCATGCCAAAATG
Mabuya_aurata              CTAATATCACTAGGTGGCCTCCCACCCCTAACAGGATTTATGCCTAAATG
Chalcides_ocellatus        CTAATATCACTTGGCGGCCTTCCCCCTCTCACAGGATTCATACCAAAATG
Eurylepis_taeniolatus      CTCATATCACTAGGTGGTCTTCCTCCCCTTACCGGCTTCATGCCAAAATG
Novoeumeces_schneideri     CTAATATCACTTGGTGGCCTGCCCCCCCTCACAGGATTTATGCCAAAATG
Scincus_scincus            TTAATATCACTAGGAGGACTACCCCCACTTACAGGATTTATACCAAAATG
Ophiomorus_punctatissimus TTAATATCACTAGGGGGCCTACCTCCACTAACAGGATTTATGCCAAAATG
Ablepharus_pannonicus      TTAATATCAATAGGCGGCCTACCCCCTCTCACAGGCTTTATACCAAAATG
Asymblepharus_alaicus      TTAATATCGTTAGGCGGACTACCCCCTCTCACCGGCTTTATACCCAAATG
Asymblepharus_sikimmensis TTAATATCTATAAGCGGACTACCACCCCTATCGGGCTTCATACCAAAATG
Sphenomorphus_indicus      TTAATATCAATGGGAGGCCTCCCTCCATTGACGGGATTTATACCAAAATG
Scincella_rupicola         TTTATATCAATAGCAGGCCTTCCCCCCCTCTCTGGGTTTATACCAAAATG
Scincella_lateralis        CTAATATCTTTAGGCGGCCTTCCCCCTCTTTCCGGCTTTATACCAAAATG
Scincella_tsinlingensis    CTTATGTCAATAGGGGGCCTACCACCCCTATCAGGCTTCATACCAAAATG
Scincella_potanini         CTAATATCAATAGGGGGGCTCCCCCCTCTTTCAGGCTTTATACCAAAATG
Eumeces_quadrilineatus     CTCATATCATTAGGCGGCCTACCCCCTCTCACTGGCTTCACACCAAAATG
Eumeces_capito             CTCATGTCATTAGGGGGCCTACCCCCTCTTACCGGATTTATACCAAAATG
Eumeces_gilberti           CTCATATCCCTAGCTGGCCTGCCCCCATTTACCGGCTTCACACCAAAATG
Eumeces_skiltonianus       CTCATATCTCTCGCCGGCCTACCCCCATTCACCGGCTTCATACCAAAATG
Eumeces_egregius           CTTATATCCCTGGCAGGCCTACCCCCATTTACAGGCTTCATGCCAAAATG
Eumeces_anthracinus        CTCATATCACTAGCCGGCCTACCCCCATTTACCGGGTTCATGCCAAAATG
Neoseps_reynoldsi          CTCATATCATTAGCCGGCCTACCCCCATTTACCGGATTCATGCCAAAATG
Eumeces_brevirostris       CTAATATCACTTGCGGGCTTGCCCCCTTTTACCGGCTTTATACCAAAGTG
Eumeces_callicephalus      CTTATATCCCTGGCCGGACTGCCCCCCCTTACCGGCTTTATGCCAAAGTG
Eumeces_inexpectatus       CTTATATCACTAGCCGGCCTGCCCCCCTTTACTGGCTTCATGCCAAAATG
Eumeces_obsoletus          CTCATATCCTTGGCCGGCCTGCCCCCCTTTGCCGGCTTCATACCAAAGTG
Eumeces_multivirgatus      CTCATATCATTAGCTGGCCTACCCCCCTTTACCGGCTTCATACCAAAATG
Eumeces_fasciatus          CTCATATCACTAGCCGGCCTACCCCCCTTTACCGGCTTCACACCAAAATG
Eumeces_laticeps           CTCATATCACTAGCCGGCCTACCCCCCTTTACCGGCTTCACACCAAAGTG
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1251-1300
Qualifiers1                 ..................................................
Qualifiers2                 .1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1
Eremias_grammica            ACTCATCTTAACAGAACTAACAACCAACCACCTTACTCCCCTAGCAGTCC
Platysaurus_capensis        ACTTATTTTACAAGAACTGGTCACCCAACAAATACTACCCGCCGCAACAG
Mabuya_aurata               ACTAGTCCTACAAGAACTAACAACACATAACCTAACCATAACCGCAACAA
Chalcides_ocellatus         ACTAATTCTACAAGAACTAACAACACACAGCCTATCCACAACCGCAACAA
Eurylepis_taeniolatus       ACTCATCCTCCAAGAACTAACTAACCACAGCCTGCCCACAACCGCTACCA
Novoeumeces_schneideri      ATTAATCTTACAAGAACTAACCACACACAGCCTATCCACCCCCGCCACCA
Scincus_scincus             ATTAATCCTACAAGAACTAACTACACACGGCCTCTCCACCACTGCCACCA
Ophiomorus_punctatissimus   ACTAATCCTGCAAGAACTAACAACACACAGCCTATCTACAACAGCAACTA
Ablepharus_pannonicus       ATTAATTCTACAAGAATTAACACTACACAACCTCACACCACTAGCCACTA
Asymblepharus_alaicus       ATTAATTTTACAAGAATTAACCTCACATAACTTAACACCTACAGCAACAC
Asymblepharus_sikimmensis   ACTTATTTTGCAAGAACTAACACTGCATAACCTAACACCCATAGCCTCAG
Sphenomorphus_indicus       ATTAATTTTACAAGAATTAATCTCCCACAACCTTACCACAATGGCAACCG
Scincella_rupicola          ACTAATTTTACAAGAACTAACCACACACAACCTAACCACAATAGCTACAG
Scincella_lateralis         ACTAATCCTACAAGAACTTACCTTTTATAGCCTCACCATAACAGCAACAG
Scincella_tsinlingensis     GCTAATTTTACAAGAATTAACCTCGCACAATCTGTCTATAGTTGCAATAA
Scincella_potanini          ATTAATTTTACAAGAGCTGACCTCCCATAACCTTACTATAATAGCAACAA
Eumeces_quadrilineatus      ACTAATTCTACAAGAACTGACAACACACAACCTCTGCATAACCGCAACAA
Eumeces_capito              GTTGATCCTACAAGAACTAACAACACACAATTTTTGTGCGTCTGCTACAA
Eumeces_gilberti            ACTCATCTTACAAGAATTAGCAACACACAACCTCTGCACAACCGCAACAA
Eumeces_skiltonianus        ACTCATTCTACAAGAACTAACAACACACAACCTCTGCATAACCGCAACAA
Eumeces_egregius            ACTAATTCTGCAAGAACTAACAACGCATAGCCTCTCCACAACCGCAACAA
Eumeces_anthracinus         ACTGATCCTACAAGAATTAACAACACACAACCTCTGCACAACCGCAACAA
Neoseps_reynoldsi           GTTGATTCTGCAAGAACTAACAATACACAACCTCTGCGCAGCCGCAACAA
Eumeces_brevirostris        GTTAATTTTACAAGAACTAACAACACACAGCCTCTGCATGGCCGCAACAA
Eumeces_callicephalus       GTTGATTTTACAAGAACTAACAGCGCACAGCCTCTGCACAGCCGCAATCA
Eumeces_inexpectatus        ACTAATCTTACAAGAATTAACAACACACAACCTCTGCACAATCGCAACCA
Eumeces_obsoletus           GTTGATCCTACAAGAACTGACAACACACAGCCTCTGCACAATTGCAACTA
Eumeces_multivirgatus       ATTAATCTTACAAGAACTAACAATACACAGCCTCTCCACAATCGCAATTA
Eumeces_fasciatus           GTTAATCTTACAAGAGCTAACAACACATGGCCTCCCCACAGTCGCAACTA
Eumeces_laticeps            GTTAATCTTACAAGAGCTAACAACACACGGCCTCCCCACAGTCGCAACTA
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1301-1350
Qualifiers1                .................................................
Qualifiers2                ..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..
Eremias_grammica           TCCTCGCCCTATCCTCTCTCCTCAGCCTAATATTTTACATACGATTAACA
Platysaurus_capensis       CCTCAACAATCCTTACACTTCTAAGCCTATTCTTTTACCTACGACTATCA
Mabuya_aurata              TTATAGTATTATCCGCACTACTCAGCTTATTTTTTTACTTACGACTATCC
Chalcides_ocellatus        TTATAGCAATATCCGCATTACTTAGCTTATTCTTTTACCTACGACTCACA
Eurylepis_taeniolatus      TCCTAGCCCTTTCCGCTCTACTAAGCCTATTCTTTTACCTCCGTCTTTCC
Novoeumeces_schneideri     TACTAGCACTCTCCACACTCCTCAGCCTATTCTTCTACCTTCGCTTAGCC
Scincus_scincus            TCTTAGCCCTATCCGCATTACTTAGTTTATTTTTTTACCTGCGCCTCTCA
Ophiomorus_punctatissimus TCATAGCACTGTCAGCACTTCTAAGCCTTTTCTTCTACCTACGATTATCA
Ablepharus_pannonicus      TAATAGCCTTAACAGCTCTACTCAGCCTATTCTTTTACCTACGACTCACC
Asymblepharus_alaicus      TTATAACAGCCGCCACACTGCTAAACCTATTTTTTTATCTACGACTAACA
Asymblepharus_sikimmensis TCATAGCACTGTCCGCTCTTCTAAGCTTATTTTTCTATTTACGATTAACT
Sphenomorphus_indicus      CAATAGCACTTTCAGCCTTACTAAGCCTATTTTTCTATTTACGACTATCC
Scincella_rupicola         CTATAGCCCTATCAGCCCTACTAAGCCTATTCTTTTACCTACGAATTTCA
Scincella_lateralis        TAATAGCCCTGTTCACCCTATTAAGCCTATTTTTTTATCTGCGACTATCA
Scincella_tsinlingensis    TATTAGCCCTCTCTGCTTTATTAAGCCTCTTCTTTTATCTACGACTGTCC
Scincella_potanini         CGCTAGCCCTCTCAGCCCTGCTCAGTTTATTCTTCTACCTACGACTATCG
Eumeces_quadrilineatus     TAATGGCGCTTTCCGCCCTGCTGAGCCTATTTTTTTACCTGCGACTATCA
Eumeces_capito             TATTAGCACTCTCCGCCCTACTAAGCCTATTCTTCTACCTACGACTATCG
Eumeces_gilberti           TACTGGCCTTGTCCGCCCTATTGAGCCTATTCTTCTACCTACGACTATCC
Eumeces_skiltonianus       TAATAGCGCTATCCGCCCTACTAAGCTTATTTTTTTACCTGCGATTATCC
Eumeces_egregius           TAATAGCACTGTCCGCCCTACTAAGCTTGTTCTTTTATCTACGACTATCG
Eumeces_anthracinus        TACTAGCGCTATCCGCCCTACTAAGCCTATTCTTCTATCTACGACTATCA
Neoseps_reynoldsi          TAATAGCGCTTTCTGCTCTACTAAGCTTATTTTTTTATCTCCGCCTATCA
Eumeces_brevirostris       TAATAGCGCTATCTGCTCTCTTAAGCCTTTTCTTTTACCTACGACTATCC
Eumeces_callicephalus      TACTAGCGCTGTCCACCCTATTAAGCCTATTCTTCTACCTCCGACTATCA
Eumeces_inexpectatus       TAATAGCACTATCCGCCCTACTAAGCCTATTCTTCTACCTACGACTATCA
Eumeces_obsoletus          TGCTAGCACTCTCCGCCCTATTAAGCCTGTTCTTCTACTTACGACTATCA
Eumeces_multivirgatus      TAATAGCACTGTCCGCCCTACTAAGCCTATTCTTCTACCTACGACTATCA
Eumeces_fasciatus          TAATAGCGCTGTCCGCACTACTAAGCCTATTTTTCTACTTACGACTATCA
Eumeces_laticeps           TAATAGCGCTATCCGCACTACTAAGCCTATTTTTCTACCTACGACTATCA
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1351-1400
Qualifiers1                .................................................
Qualifiers2                1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1.
Eremias_grammica           TACACAACAACACTTACAATTTCCCCGAACACAACTAACTCCATGATAAA
Platysaurus_capensis       TACGTTTCATCACTCATCACCTCACCAAACCAAACCCCAACAACCACCAT
Mabuya_aurata              TATACCTCCACACTAACCGTATACCCCACTACAACCAAAAGTAGTTACAA
Chalcides_ocellatus        TATACTACCTCCCTAACCATATTCCCGACCCCGACACAATCAACACACAA
Eurylepis_taeniolatus      TATATAATAGCCCTAACAATGCACCCAAACACCACACAAACTAAATATAA
Novoeumeces_schneideri     TACACAACCACCTTAACCATATTCCCAAGCCCAACACAAAACTCATATAA
Scincus_scincus            TATATAACTGCCCTAACCATATTCCCAACTCCCATGCAAAATCAACACAA
Ophiomorus_punctatissimus TACATAACTGCCCTAACCTTATTCCCAAACTCTACACAATCTTCGTACAA
Ablepharus_pannonicus      TATGTAACTACGCTAACCCTACACCCAACAACCACACAACATGAACACAA
Asymblepharus_alaicus      TACATAGCCTCCTTGACCCTCCACCCACTCACAACACAACATAAACACAA
Asymblepharus_sikimmensis TATGTAACCACCCTAACCCTGCACCCAACTACAATACAATACGAATATAA
Sphenomorphus_indicus      TACATCACAGCCCTAACAATGTCTCCAACCTCCTCACAAAACAAACTAAA
Scincella_rupicola         TATATAACCACCCTAACACTATCCCCAAACCCAGCCCAAAATAAACTAAA
Scincella_lateralis        TACACAACAGCCCTAACCCTCTCTCCAAACACTACACAAAACAAAATAAA
Scincella_tsinlingensis    TATTCTACGACCCTCACTCTCTCCCCCACTACTACACAAAACAAACTAAA
Scincella_potanini         TATATAACAGCCCTCACTCTCTCCCCAACCACCACACAAAATAAACTAAA
Eumeces_quadrilineatus     TATGTTTCAACTTTAACCCTTGCCCAAAATACAGCGCAAAACTCACACAA
Eumeces_capito             TACATTTCAACCCTAACCCTCGCCCAAAACCGGGCACAAGCCTCACATAA
Eumeces_gilberti           TATGCCTCAACCCTAACCCTCGCCCAGAGCCCAGTACAAAGCTCACACAA
Eumeces_skiltonianus       TATGCCTCAGCCCTAACCCTCGCCCAAAACCCAGTACAAAGCTCACACAA
Eumeces_egregius           TACATCTCAACCCTAACCCTCGCCCAAAGCTCAACACAAACCCCCCACAA
Eumeces_anthracinus        TATATTTCAACCCTAACCCTCACCCTGAACTCAACACAAACCCCCCACAA
Neoseps_reynoldsi          TACATATCAGCCCTGACCCTCGCCCAAAACTCAACACAAATCCCCCACAA
Eumeces_brevirostris       TACACCTCAACCCTAACCCTTGCCCAAACCCCTACACAAAACTCACACAA
Eumeces_callicephalus      TACATCTCAACCTTAACCCTCACCCTAACCCAAACACAAAACTCACACAA
Eumeces_inexpectatus       TACATCTCAACCCTAACCCTCGCCCTAACCCCAACACAGAGCACACACAA
Eumeces_obsoletus          TACATCTCAGCCCTAACCCTCGCCCTGAGCCCAACACAAAACTCACACAA
Eumeces_multivirgatus      TACGCCTCAACCCTCACCCTCCCCCTAAACCCAGCACAAAGCTCACACAA
Eumeces_fasciatus          TACATCTCAACTCTCACCCTCACCCTAAACCCAACACAAAGCTCACACAA
Eumeces_laticeps           TACATCTCAACTCTCACCCTCACCCTAAACCCAACACAAAACTCACACAA
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1401-1450
Qualifiers1                .................................................
Qualifiers2                .1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1
Eremias_grammica           ATGACGATTCAAGCTA---GCTAAACCACTCAACAAAATTCCAATAATTA
Platysaurus_capensis       ATGACGATTTAAACTAACCGTTCCCCCACTGGCAATA---CTATTAACTG
Mabuya_aurata              ATGACGATTCCAACCGAAATTAACCACAATACCAATTATAGCCCCCACAG
Chalcides_ocellatus        ATGACGATTCCAACCAAAATCAAAAACCAACCTAATAATCACCACAACCA
Eurylepis_taeniolatus      ATGACGATTCCAACCAAAACTACAAACAACCTTAATAACACCAGCACTAA
Novoeumeces_schneideri     ATGACGATTTGAACCAAAATCAAAAACAACAATAATAGCCTCTACCCTAA
Scincus_scincus            ATGACGATTTAAACCCACCTCAAACATT---GCAACAGCTACTACACTGA
Ophiomorus_punctatissimus ATGACGATTTCAACCCAAACTGAAGACCACAGCCATAACCACAATACTCA
Ablepharus_pannonicus      ATGACGGTTTTACCCAAAATTTAAAACCAGCCCAATAACCACCACATTAA
Asymblepharus_alaicus      ATGACGATTTTACCCAAACTTTAATACCACCACCATAGTTATTTTAATCA
Asymblepharus_sikimmensis ATGACGCTTTTTCCCAACACTTAATACTACCCTAATAACTATAACATTTA
Sphenomorphus_indicus      ATGACGACTCCAACCAAAACTCAAAACAACATTAGTAACCACAACACTAA
Scincella_rupicola         ATGACGATTTCAACCTAAATTAAAAACCACCATTCTCGCCACAACACTAA
Scincella_lateralis        ATGACGACTACAACCAAACCTAAAAACAGCAATTCTTACCTCAACATTAA
Scincella_tsinlingensis    ATGACGCCTCCAACCCAGCCTAAAAACCACAATTTTAACCACAACACTAA
Scincella_potanini         ATGGCGACTCCAGCCGAGCCTAAAAACAACAATTCTAACCACAACACTAG
Eumeces_quadrilineatus     ATGACGATTCCAGCCGAACACAAAAACCACCCCTATAGTAGCCACAATCA
Eumeces_capito             GTGACGATTCCAACCAAGCACAACTACCACCCCAACCACCACCATAATTA
Eumeces_gilberti           ATGACGATTCCAACCGACCACAAAAACAACCCCAATAGCCACTATAATCA
Eumeces_skiltonianus       ATGGCGGTTCCAACCAACTACAAAAATAACCCCAACAACCACCACAATCA
Eumeces_egregius           ATGACGATTCCAACCAGCCATAAAAACAGCCCCAACAGCCACTATAATCG
Eumeces_anthracinus        ATGACGGTTTCAACCAAGCACAAAAACAGCCACAACAACCACTCTAATTG
Neoseps_reynoldsi          ATGACGATTCCAACCAAACACAAAAACAACCCCAACAGTCACCATAATTA
Eumeces_brevirostris       ATGGCGGTTCCAACCAAACACAAAAACAACCCCAACCACCACCATAATCA
Eumeces_callicephalus      ATGACGCTTCAAGCCAAACACAATAGTAACCCCAATAATAACTACAGCCG
Eumeces_inexpectatus       ATGACGATTCAAGCCAAAC---ACAACAACCCCAATAACCCCCACAATCA
Eumeces_obsoletus          ATGGCGATTTAAACTTAACATAACAACAACCCCAATAATCACCACAATCA
Eumeces_multivirgatus      ATGGCGATTTAAACCAAGCACAATGACAGCCCCAATAATTACCACAATCA
Eumeces_fasciatus          ATGACGATTTAAGCCAAACGTAGTAACAACCCCAATAACCACCACAATCG
Eumeces_laticeps           ATGACGATTTAAGCCAAACGTAGTAACAACCCCAATAACCACCACAATCG
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1451-1500
Qualifiers1                .........................................ND2...
Qualifiers2                ..1..1..1..1..1..1..1..1..1..1..1..1..STP...
Eremias_grammica           CCACCCTTCTTATTATTACCCCGATTCTTCCACTAATTTCCCCTT-----
Platysaurus_capensis       CCATTTCTACACTAACTCTTCCCATAACCCCCTCCACCATT---T-----
Mabuya_aurata              TACTATCATTGCTTCTTCTCCCAATAACCCCAATATTTTACCAATAAAT-
Chalcides_ocellatus        TCTTATCCACACTAATCCTCCCAATTACCCCAATATTTATTATTT-----
Eurylepis_taeniolatus      TTCTATCAACATTTCTACTACCAATCACCCCAATATTTATC---TAAA--
Novoeumeces_schneideri     CCCTCTCCCTCCTCACACTACCAATCACCCCCATATTAATC---TAATAA
Scincus_scincus            TACTTTCACTCCTCCTACTACCAATAACCCCAATACTAGCCCTATA----
Ophiomorus_punctatissimus  TACTATCCACACTACTATTACCAATAACCCCAATACTCACCGCATAA---
Ablepharus_pannonicus      TACTAGCCTTACTTTTACTCCCAATAACACCCATATTTACC---T-----
Asymblepharus_alaicus      CATTAGCCACCTTACTACTACCCATAACACCAATATTCACC---T-----
Asymblepharus_sikimmensis  CACTATCCGCCCTTCTCCTACCTATAACCCCAATATTCATC---T-----
Sphenomorphus_indicus      CCCTTTCTATTCTTCTACTACCAATTACCCCCACACTCACT---T-----
Scincella_rupicola         TTCTATCCACCATACTCCTACCAATCACTCCAACCCTCACC---T-----
Scincella_lateralis        CTTTATCCACAATAATACTACCAATTATACCTCTACTTACT---T-----
Scincella_tsinlingensis    TCTTATCTACAATATTACTACCAGTTACCCCCTTGTTAATT---T-----
Scincella_potanini         TTCTATCCACAATACTTTTACCAATTACCCCAACACTTATC---T-----
Eumeces_quadrilineatus     TTCTTTCAACCTTCCTTCTACCAATCACACCAATATTTATC---TA----
Eumeces_capito             TTTTATCCACCCTTCTCCTACCAATCACACCGATATTTATT---T-----
Eumeces_gilberti           CTTTATCAACCCTCCTCCTACCAATCACACCAATATTTATC---TAA---
Eumeces_skiltonianus       TTCTATCAACCCTCCTCCTGCCAATCACACCAATATTTATC---TAAC--
Eumeces_egregius           TTCTATCAACCCTGCTCCTCCCCTTAACACCGATACTTATT---TAA---
Eumeces_anthracinus        CCCTATCAACCCTTCTCCTACCAATCACACCCATATTTATC---TAA---
Neoseps_reynoldsi          TTTTATCCATCCTTCTCCTGCCAATCACACCGATACTTGTC---TAA---
Eumeces_brevirostris       CTTTATCAACCCTTCTCCTGCCTATTACACCAATACTCCTC---TA----
Eumeces_callicephalus      CCTTATCAACCCTTCTCTTACCAATCACACCACTATTTATC---TAA---
Eumeces_inexpectatus       TCCTGTCTACCCTTCTCCTACCAACCACACCACTACTAATC---TAA---
Eumeces_obsoletus          CCCTGTCAACCCTCCTCTTACCTGTTACACCCCTACTCATC---TAA---
Eumeces_multivirgatus      CCCTGTCAACCCTCCTCCTGCCAATTACACCACTATTTATC---TAA---
Eumeces_fasciatus          CCCTGTCAACACTTCTCCTACCAATCACACCCCTATTTATC---TAA---
Eumeces_laticeps           CCCTGTCAACACTCCTCCTACCAATCATACCCCTATTTATC---TAA---
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1501-1550
Qualifiers1                TRP.............................................
Qualifiers2                AA>>>>>..D>>>..........D>>>.AC>>>..COD..AC>>>....T
Eremias_grammica           AGAAACTTAGGTTAGTCCTAA--AACCAGAAGCCTTCAAAGCCTCAAACA
Platysaurus_capensis       AGAAGCTTAGGATAACACATTTAAACCAAGAGCCTTCAAAGCCCTAAATA
Mabuya_aurata              AAAAGCTTAGGTTAAAACTA---AACCAGGGGCCTTCAAAGCCCCAAATA
Chalcides_ocellatus        AGAAGCTTAGGTTAATATCA---AACCAGGGGCCTTCAAAGCCCCAAACA
Eurylepis_taeniolatus      AGAAGCTTAGGTTAATAGACCTAAACCAGAGGCCTTCAAAGCCCCAAATA
Novoeumeces_schneideri     AGAAGCTTAGGTTAAAACACCA-AACCAAGGGCCTTCAAAGCCCCAAATA
Scincus_scincus            AGAGACTTAGGTTAACCTCA---AACCAGAGGCCTTCAAAGCCTCAAATA
Ophiomorus_punctatissimus AGAAGCTTAGGTTAAATTA----AACCAGGAGCCTTCAAAGCCCCAAATA
Ablepharus_pannonicus      AGATGCTTAGGTTAATTACTA--AACCAGTAGCCTTCAAAGCTACAAATA
Asymblepharus_alaicus      AGAAGTTTAGGTTAACTA-----AACCGGTAGCCTTCAAAGCCACAACCA
Asymblepharus_sikimmensis AGAAGTTTAGGTTAACTCA----AACCAGTGGCCTTCAAAGCCACAAATA
Sphenomorphus_indicus      AGAGACTTAGGTTAAACA-----AACCAGTAGCCTTCAAAGCTACAAACA
Scincella_rupicola         AGAGACTTAGGTTAATTA-----AACCAGCGGCCTTCAAAGCCACAAACA
Scincella_lateralis        AGGGACTTAGGCTAATAATA---AACCAGCAGCCTTCAAAGTTGCAAACA
Scincella_tsinlingensis    AGGGGCTTAGGCTAACACA----AACCAGCAGCCTTCAAAGCTTCAACCA
Scincella_potanini         AGGGACTTAGGCTAAATAA----AACCGGTAACCTTCAAAGCTACAATCA
Eumeces_quadrilineatus     AGAAGCTTAGGTTAACCTCA---AACCAGGGGCCTTCAAAGCCCCAAACA
Eumeces_capito             AGAAGCTTAGGTTAAACCTA---AACCAAAGGCCTTCAAAGCCTTAAACA
Eumeces_gilberti           AGGGGCTTAAGTTAAACTTA---AACTAGCGGCCTTCAAAGCCCCAAACA
Eumeces_skiltonianus       AGGGACTTAAGTTAACTTA----AACTAGGGGCCTTCAAAGCCCCAAACA
Eumeces_egregius           AGAAACTTAGGTTAATTTA----AACCGGGGGCCTTCAAAGCCCCAAACG
Eumeces_anthracinus        AGAAACTTAGGTTAATTTA----AACCAAAGGCCTTCAAAGCCTTAAACA
Neoseps_reynoldsi          AGAAACTTAGGTTAAATTA----AACCAGAGGCCTTCAAAGCCCCAAACA
Eumeces_brevirostris       AGAAGCTTAGGTTAAACA-----AACCAGGGGCCTTCAAAGCCCCAAACA
Eumeces_callicephalus      AGAAACTTAGGTTAAACTA----AACCAGGGGCCTTCAAAGCCCCAAACA
Eumeces_inexpectatus       AGAAACTTAGGTTAACCA-----AACCAGGGGCCTTCAAAGCCCCAAACA
Eumeces_obsoletus          AGAAACTTAGGTTAAACTA----AACCAAGGGCCTTCAAAGCCCCAAACA
Eumeces_multivirgatus      AGAAACTTAGGTTAAACCA----AACCGGGGGCCTTCAAAGCCCCAAACA
Eumeces_fasciatus          AGAAACTTAGGTTAGACCA----AACCAAGGGCCTTCAAAGCCCTAAACA
Eumeces_laticeps           AGAAACTTAGGTTAGACCA----AACCAAGGGCCTTCAAAGCCCTAAACA
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1551-1600
Qualifiers1                 .....................TRP...ALA...................
Qualifiers2                 >>>>.......T>>>>AA>>>>>*...*<<<<<AA<<<<T.......<<<
Eremias_grammica            GGGTACACATATCCCTAGTTTCTGA--TAAGACCTGTATAACCTTGATAT
Platysaurus_capensis        AGAGTGAAACCCTCTTAGTTTCTG---AAAGATTTGTAAAACTCTAATTT
Mabuya_aurata               AGGACTAA-CCCCCTTAGCTTTTGAACTAAGACCTGTAAAACTTTAATTT
Chalcides_ocellatus         AGAGTTCAACCCTCTTAGCTCCTG----AAGGCCTGTAAAACTCTAATTT
Eurylepis_taeniolatus       TGAGTTAAACCCTCCTAGCTTCTG----AAGGCATGTAAAACACTAATTT
Novoeumeces_schneideri      AGGGTTAAACCCCCTTAGCCTCTG----AAGGTATGTAAAACTCTAATCT
Scincus_scincus             AGGACTAAAACCCCTTAGCCTCTG----AAGGCCTGTAAAATTCTAATTT
Ophiomorus_punctatissimus   AGAGCTAAA-CCCCTTAGCTTCTGT---AAAGCCTGTAAAACTTTAATTT
Ablepharus_pannonicus       GGGCTTAAA-CTCCCTAGAATCTG---TAAAACCTGTAAAACTTTAATTT
Asymblepharus_alaicus       GGGGTTAAAAGCCCCTAACTTCTG----AAGACCTGTAAAACTTTAATTT
Asymblepharus_sikimmensis   GGGGCTAA-TCCCCCTCACTTCTG----AAGACTTGTAGAACTTTAATCT
Sphenomorphus_indicus       AGAGCTGAAACCTCTTAGACTCTG---GAAGGCTTGTAAAACTTTAATTT
Scincella_rupicola          AGAGTTAAAATCTCCTAGCCTCTG----AAAGTTTGTAAAACTCTAATTT
Scincella_lateralis         AGAGTTAAAATCTCTTAGTCCCTG----AAGGCCTGTAATACTCTAAATT
Scincella_tsinlingensis     AGAGCTAAAATCTCTTAGCCCCTG----AAAGCCTGTAAAATTTTAATTT
Scincella_potanini          AGAGTTTAAACCTCTTAGCCCCTG----AAAGCTTGTAAAACTCTAATTT
Eumeces_quadrilineatus      AGAGTTAGACTCTCTTAGCTCCTG----AAGGCCTGTAAAACTTTAATTT
Eumeces_capito              AGAGTTAAACCCTCTTAGCTTCTG----AAGGCCTGTGAAACTTTAATTC
Eumeces_gilberti            AGAGTTAAACCCTCTTAGCCCCTG----AAAGCCTGTAAAACTCTAATTT
Eumeces_skiltonianus        AGAGCTAAACCCTCTTAGCCCCTG----AAAGCCTGTAAAATTCTAATTT
Eumeces_egregius            AGAGCTAGCCCCTCTTAGTTTCTG----AAGGCCTGTAGAGCTCTAATCT
Eumeces_anthracinus         GGGGTTAAACCCCCCTAGTTTCTG----AAGGCCTGTAAAACTCTAATCT
Neoseps_reynoldsi           AGAGTTAGACCCCCTTAGTTTCTG----AAGGCCTGTGAAACTCTAATAC
Eumeces_brevirostris        AGAACTAAGCCCTCTTAGCTTCTG----AAGGCCTGTAAAACTCTAATCT
Eumeces_callicephalus       AGAACTACACCCTCTTAGTTTCTG----AAGGCCTGTAAAACTCTAATTT
Eumeces_inexpectatus        AGAGCTAGACCCTCTTAGTTTCTG----AAGGCCTGTAAAACTCTAATTT
Eumeces_obsoletus           AGAGCTAGACCCTCTTAGTCTCTG----AAGGCCTGTAAAACTCTAACTT
Eumeces_multivirgatus       AGAGCCAAACCCTCTTAGTTTCTG----AAGGCCTGTAAAACTCTAATTT
Eumeces_fasciatus           AGAGCCAAACCCTCTTAGTTTCTG----AAGGCCTGTAAAACTCTAATTT
Eumeces_laticeps            AGAGCCAAACCCTCTTAGTTTCTG----AAGGCCTGTAAAACTCTAATTT
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1601-1650
Qualifiers1                .........................................ALA..AS
Qualifiers2                <T....<<<AC..COD..<<<AC.<<<D.....<<<D..<<<<<AA..*<
Eremias_grammica           ACATCTCTTGAATGCAACTCAAACACTTTAATTAAGCTAAGGCCTCTTCA
Platysaurus_capensis       ACATCTTCTGACTGCAAATCAAACACTTTAATTAAGCTAAAACCTC--CT
Mabuya_aurata              ACATCTCCTGAATGCAACCCAGACACTTTAATTAAGCTAAGGCCTC--CT
Chalcides_ocellatus        ACATCTCCTGAATGCAACCCAGACACTTTAATTAAGCTAAAGCCTC--CC
Eurylepis_taeniolatus      ACATCTCCTGAATGCAACTCAGACACTTTAATTAAGCTAAAGCCTC--CT
Novoeumeces_schneideri     ACATCTTCTGACTGCAACCCAGACGCTTTAATTAAGCTAAAACCTC--CC
Scincus_scincus            ACATCTCCTGATTGCAATTCAGACACTTTAATTAAGCTAAAGCCTC--CC
Ophiomorus_punctatissimus  ACATCCGCTGACTGCAACTCAACCACTTTAATTAAGCTAAGGCTTC--CT
Ablepharus_pannonicus      ACATCTCCTGATTGCAACTCAGACACTTTTACTAAGCTAAGGCCTC--CT
Asymblepharus_alaicus      ACATCACCTGATTGCAAATCAGACACTTTCACTAAGCTAAGGCCTC--CC
Asymblepharus_sikimmensis  ACATCACCTGATTGCAAATCAAGCACTTTTATTAAGCCAAAGCCTC--CT
Sphenomorphus_indicus      ACATCTTCTGACTGCAAATCAGACACTTTAATTACGCTAAAACCTC--CT
Scincella_rupicola         ACATCTCCTGATTGCAAATCAAACACTTTAATTAAGCTAAAACCTC--CT
Scincella_lateralis        ACATCTTATGACTGCAAATCAAACACTTTTATTAAGCTAAAACCTC--CT
Scincella_tsinlingensis    ACATCTCCTGATTGCAAATCAAGCACTTTTATTAAGCTAAAACCTC--CT
Scincella_potanini         ACATCTCCTGACTGCAAATCAAGCACTTTTATTAAGCTAAAACCTC--CT
Eumeces_quadrilineatus     ACATCTCCTGAATGCAACTCAAACACTTTAATTAAGCTAAAGCCTC--CT
Eumeces_capito             ACATCTCATGATTGCAACTCAAACGCTTTAATTAAGCCAAAGCCTC--CC
Eumeces_gilberti           ACATCTCCTGAATGCAACTCAAGCACTTTAATTAAGCTAAAGCCTC--CT
Eumeces_skiltonianus       ACATCTCCTGAATGCAACTCAAGCGCTTTAATTAAGCTAAAGCCTC--CT
Eumeces_egregius           ACATCTCATGAATGCAACTCAAACACTTTAATTAAGCTAAAGCCTC--CT
Eumeces_anthracinus        ACATCTCCTGAATGCAACTCAAACACTTTAATTAAGCTAAAGCCTC--CT
Neoseps_reynoldsi          ACATCTCTTGAATGCAACTCAAACACTTTAATTAAGCTAAAGCCTC--CT
Eumeces_brevirostris       ACATCTCCTGAATGCAACTCAAGCGCTTTAATTAAGCTAAAACCTC--CT
Eumeces_callicephalus      ACATCTCCTGAATGCAACTCAAACACTTTAATTAAGTTAAAGCCTC--CT
Eumeces_inexpectatus       ACATCTTCTGAATGCAACTCAAACACTTTAATTAAGCTAAAGCCTC--CT
Eumeces_obsoletus          ACATCTCCTGAATGCAACTCAAGCACTTTAATTAAGCTAAAGCCTC--CT
Eumeces_multivirgatus      ACATCTCCTGAATGCAACTCAAACACTTTAATTAAGTTAAAGCCTC--CT
Eumeces_fasciatus          ACATCTCCTGAATGCAACTCAAACACTTTAATTAAGCTAAAGCCTC--CT
Eumeces_laticeps           ACATCTCCTGAATGCAACTCAAACACTTTAATTAAGCTAAAGCCTC--CT
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1651-1700
Qualifiers1               N.............................................
Qualifiers2               <<<<AA<<<<T.......<<<<T.....<<<AC..COD..<<<AC.<<<D
Eremias_grammica          AGATGGACAGGCTTTGATCCTGCGAAACTCTAGTTAACAGCTAAAAACCC
Platysaurus_capensis      AGACAGGCAGGCCTCTATCCTACAAACAATTAGTTAACAACTAATCACCC
Mabuya_aurata             AGATAGACGGGCCTCGATCCCGTAAAACCTTAGTTAACAGCTAAACACCC
Chalcides_ocellatus       GAATAAACGGGCCTCGATCCCGCAAAAACCTAGTTAACAGCTAAGCGCCC
Eurylepis_taeniolatus     AGACAGACGGGCCTTGATCCCGTAACATCTTAATTAACAGCTAAGCACTC
Novoeumeces_schneideri    AGACAAACGGGCCTCGATCCCGTAAAACCTTAGTTAACAGCTAAGCACCC
Scincus_scincus           AGACAGACGGGCCTCGATCCCGTAAACTCTTAGTTAACAGCTAAGCACCC
Ophiomorus_punctatissimus AGATAGACGGGCCTCGATCCCATAAAACCTTAGTTAACAGCTAAGCACCC
Ablepharus_pannonicus     AGATAGACGGGCCTCGATCCCGTAAACATTTAATTAACAGCTAAATACCC
Asymblepharus_alaicus     AGATAGACGGGCCTCGATCCCGTAAACATTTAATTAACAGCTAAACACCC
Asymblepharus_sikimmensis AGACAGACGGGCCTCGATCCCGTAAACGTTTAGTTAACAGCTAAACACCT
Sphenomorphus_indicus     AGACAGACGGGCCTCGATCCCGTGAAACTTTAGTTAACAGCTAAAAACCC
Scincella_rupicola        AGACAGACGGGCCTCGATCCCGTAAAACTTTAGTTAACAGCTAAACACCC
Scincella_lateralis       AGACAGACGGGCCTCGATCCCGTAAAATTTTAATTAACAGCTAAATACCC
Scincella_tsinlingensis   AGACAGACGGGCCTTGATCCCGTAAAATTTTAATTAACAGCTAAATACCC
Scincella_potanini        AGACAGACGGGCCTCGATCCCGTAAAATTTTAATTAACAGCTAAACACCC
Eumeces_quadrilineatus    AGATAGACGGGCCTCGATCCCGTAAAATTTTAGTTAACAGCTAAACACCC
Eumeces_capito            AGACAGACGGGCCTCGATCCCGTAAACTTTTAGTTAACAGCTAAACACCC
Eumeces_gilberti          AGATAGACGGGCCTTGATCCCGTAAAATTTTAGTTAACAGCTAAACACCC
Eumeces_skiltonianus      AGATAGACGGGCCTTGATCCCGTAAAATTTTAGTTAACAGCTAAACACCC
Eumeces_egregius          AGATAGACGGGCCTTGATCCCGTAAAATTTTAGTTAACAGCTAAACACCC
Eumeces_anthracinus       AGATAGACGGGCCTCGATCCCGTAAAATTTTAGTTAACAGCTAAATACCC
Neoseps_reynoldsi         AGATAGACGGGCCTTGATCCCGTAAAATTTTAGTTAACAGCTAAACACCC
Eumeces_brevirostris      AGATAGACGGGCCTCGATCCCGTAAAATTTTAGTTAACAACCAAACACCC
Eumeces_callicephalus     AGATAGACGGGCCTCGATCCCGTAAAACTTTAGTTAACAGCTAAACACCC
Eumeces_inexpectatus      AGATAGACGGGCCTTGATCCCGTAAAATTTTAGTTAACAGCTAAACACCC
Eumeces_obsoletus         AGATAGACGGGCCTCGATCCCGTAAAATTTTAGTTAACAGCTAAATACCC
Eumeces_multivirgatus     AGATAGACGGGCCTCGATCCCGTAAAATTTTAGTTAACAGCTAAACACCC
Eumeces_fasciatus         AGATAGACGGGCCTCGATCCCGTAAAATTTTAGTTAACAGCTAAACACCC
Eumeces_laticeps          AGATAGACGGGCCTCGATCCCGTAAAATTTTAGTTAACAGCTAAACACCC
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1701-1750
Qualifiers1                 ..................ASNOL.........................O
Qualifiers2                 .........<<<D..<<<<<AA..........................
Eremias_grammica            -AACCCAGCGGGCTTCCATCTTCCTTCCCCCG-TTATAAAAAAAAACGGGG
Platysaurus_capensis        -AATCCAGCGGGCTTCTATCTA-CTTCTCCCGTTCTTAAA---AACGGGA
Mabuya_aurata               -AATCCAGCGGGCTTCTATCCGT------GGC-TTCAAAAAAA-------
Chalcides_ocellatus         -AATCCAGCGGGCTTCTATCCG---GGCAATAAAAA-------------
Eurylepis_taeniolatus       -AATCCAGCGAGCTTCTATCTA-------GGCTGAAAAGAAAG-------
Novoeumeces_schneideri      -AACCCAGCGGGCTTCTGCCTG-------GGCTCTATTAAAAA-------
Scincus_scincus             -TATCCAGCGGGCTTCCACCTG---GGCTTTCTAAAAAA-----------
Ophiomorus_punctatissimus -AATCCAGCGGGCTTCTATCCG--TGCTTCTTAAAAAAAAG---------
Ablepharus_pannonicus       -AATCCAGCGGGCTTCTATCCG---GCTTCTTTCAAAAAAA---------
Asymblepharus_alaicus       -AATCCAGCGGGCTTCTATCCG---GCTTTTTTGTTTTTTTTAAAAAAA-
Asymblepharus_sikimmensis TAATCCAGCGGGCTTCTGTCCG---GCTTTATTTCTAAAAAAA-------
Sphenomorphus_indicus       -AATCCAGCGGGCTTCTGTCCG-------GGC-TTCTAAAAAA-------
Scincella_rupicola          -TACCCAGCGGGCTTCTGTCCG---GCTTTTATAAAAAAA----------
Scincella_lateralis         -TAACCAGTGGGCTTCTGTCCG---GCTTTTTCATTAAAAAA--------
Scincella_tsinlingensis     -AATCCAGCGGGCTTCTGTCCG---GCTTTTTTATTAAAAAA--------
Scincella_potanini          -AATCCAGCGGGCTTCTGTCCA--GTCTTTTTTTTTAAAAAA--------
Eumeces_quadrilineatus      -AATCCAGCGGGCCTCTATCCG--CGCTTCTTCTATAAGAAGAAG-----
Eumeces_capito              -TATCCAGCGGGCCTCTGTCCG--CGCTTCTTCTTTCCGTAGAAGAAG--
Eumeces_gilberti            -AATCCAGCGGGCCTCTATCCG--CGTCTTCTTCTATTTAGAAGAAG---
Eumeces_skiltonianus        -AATCCAGCGGGCCTCTATCCG--CGTCTTCTTCTATTTAGAAGAAG---
Eumeces_egregius            -AATCCAGCGGGCCTCTATCCG--CGCTTCTTCTGTTAGAAGAAG-----
Eumeces_anthracinus         -AATCCAGCGGGCCTCTATCCG--CGCTTCTTCTATTTAGAAGAAG----
Neoseps_reynoldsi           -CATCCAGCGGGCCTCTATCCG--CGCTTCTTCTATCAGTAGAAGAAG--
Eumeces_brevirostris        -AATCCAGCGGGCTTCTATCCG--TGCTTCTTCTTATTCAAGAAGAAG--
Eumeces_callicephalus       -CATCCAGCGGGCCTCTATCCG--CGCTTCTTCTGTTAGAAGAAG-----
Eumeces_inexpectatus        -AATCCAGCGGGCCTCTATCCG--CGCTTCTTCTGTTAGAAGAAG-----
Eumeces_obsoletus           -AAACCAGCGGGCCTCTATCCG--CGCTTCTTCTATTTAGAAGAAG----
Eumeces_multivirgatus       -AAACCAGCGGGCCTCTATCCG--CGCTTCTTCTATTAGAAGAAG-----
Eumeces_fasciatus           -CAGCCAGCGGGCCTCTATCCG--CGCTTCTTCTGTT-AGAAGAAG----
Eumeces_laticeps            -CAGCCAGCGGGCCTCTATCCG--CGCTTCTTCTGTT-AGAAGAAG----
```

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1751-1800
Qualifiers1                LCYS.........................................
Qualifiers2                .*<<<<<AA<<<<T.........<<<<T....<<<AC..COD..<<<AC.
Eremias_grammica           GAAGCCCCGGCACCTTAAT----GGTGCTTCTCCAAATTTGCATTTTGGC
Platysaurus_capensis       GAAGCCCCGGCACCTTCAA----GGTGCTTCTTCAAATTTGCAATTTGAC
Mabuya_aurata              -AAGCCCCGAAACGCCTTTAG--GGTTTATCTCTAGATTTGCACTCTAGC
Chalcides_ocellatus        -AAAGCCCGGCATACGTAAA---TACGCTTCTCCAGATTTGCACTCTGAC
Eurylepis_taeniolatus      -AAGCCTAGGTACACCCTCG---TGTACGTCTCTAGATTTGCACTCTAGC
Novoeumeces_schneideri     -AAGCCCAGGCACACCCTAG---TGTGCGTCTCTAGATTTGCAGTCTAGC
Scincus_scincus            -AAGCCCAGGTACACCTTAG---TGTGCGTCTTCAGATTTGCAATCTGAC
Ophiomorus_punctatissimus -AAGCCCTGGCACACGTAAG---TGTGCTTCTCTAGATTTGCATTCTAGC
Ablepharus_pannonicus      -AAGCCGAGGCACACCTTTGGG-TGTGCGTCTCTAGATTTGCACTCTAGC
Asymblepharus_alaicus      -AAGCCGCGGCACACCTTTGGG-TGTGCGTCTCTAGATTTGCACTCTAGC
Asymblepharus_sikimmensis -AAGCCGAGGCACACCTTTTGGGTGTGCGTCTCTAGATTTGCACTCTAGT
Sphenomorphus_indicus      -AAGCCGCGGCACACCCTTG---TGTGCGTCTCTAGATTTGCATTCTAGT
Scincella_rupicola         -AAGCCGCGGCACACCTTGGGG-TGTGCTTCTCTAGATTTGCACTCTAAT
Scincella_lateralis        -AAGCCGCGGCACACCGGGGGGGTGTGCCTCTCTAGATTTGCACTCTAGC
Scincella_tsinlingensis    -AAGCCTCGGTACGCCGTTGG--GGTACGTCTCTAGATTTGCACTCTAGT
Scincella_potanini         -AAGCCTCGGTACGCCTTTGGG-GGTACGTCTCTAGATTTGCACTCTAGT
Eumeces_quadrilineatus     -AAGCCCAGGAACACCTTTAG--GGTTCGTCTCAAGATTTGCACTCTTGC
Eumeces_capito             -AAGCCCCGGAACACTTTTAG--GGTTCTTCTCAAGATTTGCATTCTTGC
Eumeces_gilberti           -AAGCCCAGGAACGTCTTTAG--GGTTCTTCTCAAGATTTGCACTCTTGC
Eumeces_skiltonianus       -AAGCCCAGGAACACCTTTAG--GGTTCTTCTCAAGATTTGCACTCTTGC
Eumeces_egregius           -AAGCCCAGGAGCACCTTTTGG-GGCTCTTCTCAAGATTTGCACTCTTGC
Eumeces_anthracinus        -AAGCCCAGGAACGCCTTTAG--GGTTCTTTTCAAGATTTGCACTCTTGC
Neoseps_reynoldsi          -AAGCCCAGGAACACCTTTAG--GGTTCTTCTCAAGATTTGCACTCTTGC
Eumeces_brevirostris       -AAGCCCAGGAACGCCTTTAG--GGTTCTTTTCAAGATTTGCACTCTTGT
Eumeces_callicephalus      -AAGCCCTGGAACGCCTTTGG--GGTTCTTCTCAAGATTTGCACTCTTGC
Eumeces_inexpectatus       -AAGCCCAGGAACGCCTTTTAG-GGTTCTTCTCAAGATTTGCACTCTTGC
Eumeces_obsoletus          -AAGCCCAGGAACGCCTTTTGG-GGTTCTTCTCAAGATTTGCACTCTTGC
Eumeces_multivirgatus      -AAGCCCAGGAACACCTTTAG--GGTTCTTCTCAAGATTTGCACTCTTGC
Eumeces_fasciatus          -AAGCCCTGGAACACCTTTAG--GGTTCTTCTCAAGATTTGCACTCTTGC
Eumeces_laticeps           -AAGCCCTGGAACGCCTTTAG--GGTTCTTCTCAAGATTTGCACTCTTGC
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1801-1850
Qualifiers1                .................CYS...........TYR................
Qualifiers2                <<<D...<<<D..<<<<<AA...........*<<<<<AA<<<<T......
Eremias_grammica           GTAATTACCTCAGGGCTACT-----------GATAGGGGGAGTAA----
Platysaurus_capensis       GTAA---ATACCTCGGAACT-----------TGGTAAGAGTAGTCTC---
Mabuya_aurata              GTGAA--ACACCGCGGGACT-----------TGATAAGGACGGGGCTCAA
Chalcides_ocellatus        GTGGGAACCACCACGGACTTATAACAA----TGACAAGAGTGGGACTAAA
Eurylepis_taeniolatus      GTGGA--TCACCGCAAGGCTG----------TGATAAGAGCGGGGCTAGT
Novoeumeces_schneideri     GTGATA-TCACCACAGAGCT-----------TGGTAAGAGTGGGGGCCAA
Scincus_scincus            GTGATA-ACACCACAGGGCT-----------TGATAAGAACGGGGCTAGA
Ophiomorus_punctatissimus GTGAA--TCACCACAAGGCT-----------TGATAAGAGCGGGACTAAA
Ablepharus_pannonicus      GTGTA--TCACCACCCGGCT-----------TGGGAAGAGCGGGATTGCA
Asymblepharus_alaicus      GTAAT--ATACCCCACGGCT-----------TGGGAAGAGCGGGACTCGC
Asymblepharus_sikimmensis GTATA--ATACTACCCGACT-----------TGGTAAGAGCGGGTCATTT
Sphenomorphus_indicus      GTGGA--ACACCACACGACT-----------TGATAAGAGTGGGGATTTT
Scincella_rupicola         GTGGAT-TCACCTCGCAGCTATTTAAAACT-TGGTAAAGGTGGGGCTAAA
Scincella_lateralis        GTGTAA-TCACCTCGCGACTCTCTTAAAACATGGTAAGGGTGGGGCAA--
Scincella_tsinlingensis    GTGAAA-TCACCTCGAGGCC-----------TGATAAGAGCGGGGTAGAC
Scincella_potanini         GTGAAA-TCACCTCGAGGCT-----------TGATAAGGGTGGGACAAC-
Eumeces_quadrilineatus     GTGAAA-ACACCACAGGGCT-----------TGATAGGGGCAGGATTTAA
Eumeces_capito             GTGGA--GCACCACGGGGCT-----------TGGTAGGAGCGGGACTCGA
Eumeces_gilberti           GTGAA--ACACCACAGGGCT-----------TGATAGGAGCGGAG-TGAA
Eumeces_skiltonianus       GTGGAAA-CACCACAGGGCT-----------TGATAGGAGCAGGGTGAA-
Eumeces_egregius           GTGAAA--CACCTCTGGGCC-----------TGATAGGGGCAGGGTTAAA
Eumeces_anthracinus        GTGAA--ACACCGCTGGGCT-----------TGGTAGGGGCAGGATTAAA
Neoseps_reynoldsi          GTGAA--ACACCACTGGGCT-----------TGATAGGAGCAGGTAACC-
Eumeces_brevirostris       GTGAAG--CACTACAGGGCT-----------TGGTAGGGACGGGGTTTAA
Eumeces_callicephalus      GTGAA--ACACCACAGGGCT-----------TGGTAAGGACGGGGTTGAG
Eumeces_inexpectatus       GTGGAA-ACACCACAGGGCT-----------TGGTAGAGGCGGGACTAAC
Eumeces_obsoletus          GTGG-AAACACCACAGGGCT-----------TGATAGGGACGGGGTTGAG
Eumeces_multivirgatus      GTGGAAA-CACCACAGGGCT-----------TGATAGGGACGGAGCTGAA
Eumeces_fasciatus          GTGGTA-ACACCACAGGGCT-----------TGATAGGGACGGGGCTGAG
Eumeces_laticeps           GTGGAA-ACACCACAGGGCT-----------TGATAGGGACGGGGCTGAG
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1851-1900
Qualifiers1                .............................................T
Qualifiers2                ..<<<<T....<<<AC..COD..<<<AC.<<<D......<<<D..<<<<<
Eremias_grammica           --CCTCCGTATTGGGGTTTACAGCCCCACGCCTTAC--TCAGCCACCCTA
Platysaurus_capensis       --TCTACGTATGCAAGGCTACAACCTGCCGCTTATCC-TCAGCCATCTTA
Mabuya_aurata              --CCCGCCTATGCAGGGCTACAACCTGCCGCTTCAC--TCAGCCACCTTA
Chalcides_ocellatus        A-CCCACATATACAGGGCTACAACCTGCCGCCTATT--TCGGCCATCTTA
Eurylepis_taeniolatus      G-CCCGCATATACAGGGCTACAACCTGCCACCTGTCT-TCGGCCATCTTA
Novoeumeces_schneideri     C-CCCACCTATACAGGGCTACAACCTGCCGCCTACCC-TCAGCCATCTTA
Scincus_scincus            --CCCGCATGCACAGGGCTACAACCTGCCACCTTA---TCGGCCATCTTA
Ophiomorus_punctatissimus A-CCCGCCTGAACAGGGCTACAACCTGCCACCTACAC-TCGGCCATCTTA
Ablepharus_pannonicus      --CCCGCCTGTGCAGGACTACAGCCTGCCGCCTGACC-TCGGCCATCTTA
Asymblepharus_alaicus      A-CCCGCCTTTGCAGGGCTACAACCTGCCACCTGTTACTCGGCCATCTTA
Asymblepharus_sikimmensis A-CCCGCCTGCACAGGGCTACAACCTGCCACCTACTACTCGGCCATCTTA
Sphenomorphus_indicus      TACCCACCTGTACAGAGCTACAATCTGTCGCCTTC---TCGACCATCTTA
Scincella_rupicola         --CCCACGTAAACAGGGCTACAACCTGCCGCCTCC---TCGGCCACCTTA
Scincella_lateralis        --ACCACGTGCACAGGGCTACAACCTGTTGCCTGC---TCGGCCACCTTA
Scincella_tsinlingensis    --CCCACGTGCACAGGGCTACAACCTGCTGCCTTC---TCGGCCATCTTA
Scincella_potanini         --TCCACGTGCACAGGGCTACAACCTGTCGCCTGC---TCGGCCACCTTA
Eumeces_quadrilineatus     A-CCCGCCTAAACAGGGCTACAACCTGCCACCTACTC-TCGGCCACCCTA
Eumeces_capito             --CCCGCCTAGGCAGGGCTACAACCTGCCACCTTTC--TCGGCCATCCTA
Eumeces_gilberti           --CCCGCATGAGCAGGGCTACAACCTGCCACCTTTTT-TCGGCCATCCTA
Eumeces_skiltonianus       --CCCGCATGAGCAGGGCTACAACCTGCCACCTTTT--TCGGCCATCCTA
Eumeces_egregius           --CCCGCCTATGCAGGGCTACAACCTGCCGCCTAATTCTCGGCCACCCTA
Eumeces_anthracinus        --CCCGCCTCTGCAGGGCTACAACCTGCCGCCTAATTCTCGGCCACCCTA
Neoseps_reynoldsi          --CCTGCCTGTGCAGGGCTACAACCTGCCGCCTAACTCTCGGCCACCCTA
Eumeces_brevirostris       --CCCGCCTACACAGGGCTACAACCTGCCGCCTAATC-TCGGCCACCCTA
Eumeces_callicephalus      --CCCGCATGAGCAGGGCTACAACCTGCCGCCTTCTT-TCGGCCACCCTA
Eumeces_inexpectatus       --CCCGCATAAGCAGGGCTACAACCTGCCACCTGTT--TCGGCCACCCTA
Eumeces_obsoletus          --CCCGCATGAACAGGGCTACAACCTGCCGCCTGCTT-TCGGCCACCCTA
Eumeces_multivirgatus      --CCCGCATGGGCAGGGCTACAACCTGCCGCCTACTT-TCGGCCACCCTA
Eumeces_fasciatus          --CCCGCATGAACAGGGCTACAACCTGCCGCCTACCT-TCGGCCACCCTA
Eumeces_laticeps           --CCCGCATGAACAGGGCTACAACCTGCCGCCTACCT-TCGGCCACCCTA
```

1901-1933

Qualifiers1	YR.COI.....COI
Qualifiers2	AA.1..1..1..1..1..1..1..1..1..
Eremias_grammica	CCTGTGTCTCTAATTCGTTGATTTTTTTCAACT
Platysaurus_capensis	CCTGTGTTTATCTCCCGCTGATTTTTTTCAACA
Mabuya_aurata	CCTGTGACCATTAATCGTTGATTCTTCTCAACC
Chalcides_ocellatus	CCCGTGACCATCAATCGTTGACTATTCTCAACC
Eurylepis_taeniolatus	CCTGTGACTATCAATCGTTGATTCTTCTCAACC
Novoeumeces_schneideri	CCCGTGATAATTAACCGTTGATTCTTCTCAACC
Scincus_scincus	CCTGTGACCGTCAATCGTTGATTCTTCTCAACC
Ophiomorus_punctatissimus	CCTGTGATCATTAATCGTTGATTTTTCTCAACT
Ablepharus_pannonicus	CCTGTGACCATTAACCGTTGATTCTTCTCAACT
Asymblepharus_alaicus	CCTGTGACTATCACCCGTTGATTCTTCTCGACT
Asymblepharus_sikimmensis	CCTGTGACTATTAACCGTTGATTCTTCTCAACA
Sphenomorphus_indicus	CCCGTGACCATCAACCGTTGATTCTTCTCAACC
Scincella_rupicola	CCTGTGACAATTAATCGTTGATTCTTCTCGACT
Scincella_lateralis	CCTGTGATAATTACTCGTTGATTTTTCTCAACT
Scincella_tsinlingensis	CCTGTGACAATTAATCGTTGACTTTTCTCAACC
Scincella_potanini	CCTGTGACAATTAATCGTTGATTCTTCTCAACC
Eumeces_quadrilineatus	CCTGTGACTATCAATCGTTGATTCTTCTCAACC
Eumeces_capito	CCTGTGACCATTAATCGTTGATTCTTCTCAACT
Eumeces_gilberti	CCTGTGACCATTAATCGTTGACTTTTCTCAACC
Eumeces_skiltonianus	CCTGTGACTATTAATCGTTGACTTTTCTCAACC
Eumeces_egregius	CCTGTGACTATTAATCGTTGATTCTTCTCAACC
Eumeces_anthracinus	CCTGTGACTATTAATCGTTGACTCTTCTCAACC
Neoseps_reynoldsi	CCTGTGACTATTAATCGTTGATTCTTCTCAACC
Eumeces_brevirostris	CCTGTGACTATTAATCGTTGATTCTTCTCAACC
Eumeces_callicephalus	CCTGTGACTATTAATCGTTGATTTTTCTCAACC
Eumeces_inexpectatus	CCTGTGACTATCAATCGTTGATTTTTCTCAACC
Eumeces_obsoletus	CCTGTGACTATTAATCGTTGATTTTTCTCAACC
Eumeces_multivirgatus	CCTGTGACTATTAATCGTTGATTTTTCTCAACC
Eumeces_fasciatus	CCTGTGACTATTAATCGTTGATTTTTCTCAACC
Eumeces_laticeps	CCTGTGACTATTAATCGTTGATTTTTCTCAACC

Appendix B

Aligned nucleotide data (2126 positions) for ranid frogs:
Sequences are presented as light-strand sequence and tRNA secondary structure is designated above the sequence. Stems are indicated by arrows in the direction encoded: AA=amino acid-acceptor stem, D=dihydrouridine stem, AC=anticodon stem, T=TyC stem. The tRNA anticodons are designated COD. Asterisks indicate the unpaired 3' tRNA position 73. Periods represent bases located outside stem regions; 1 depicts the first codon position of protein-coding sequences. STP or ST represents stop codons. OL represents the replication origin for the light strandAll voucher specimens are deposited in the California Academy of Sciences (CAS) in San Francisco, or the Museum of Vertebrate Zoology (MVZ), University of California at Berkeley. The list of taxa first includes the voucher number followed by the GenBank number. Locality data are also included in GenBank files. Excluded positions are 154-174 1690 1713-1718 1927-1949 1969-1975 2007-2009.

Xenopus laevis	no voucher, M10217
Bufo andrewsi	CAS194888, AY607301
Rana limnocharis	CAS194255, AY607302
Polypedates leucomystax	MVZ222058, AY607303
Amolops hongkongensis	MVZ217679, AY607304
Rana tientaiensis	CAS194335, AY607305
Rana ridibunda	MVZ218680, AY607306
Rana nigromaculata	CAS194407, AY607307
Rana plancyi	MVZ211349, AY607308
Rana catesbeiana	MVZ196171, AF314016
Rana sylvatica	MVZ-RM10421, AF314017
Rana warschewitschii	MVZ207333, AY607309
Rana areolata	MVZ145472, AY607310
Rana pipiens	MVZ227675, DQ471440
Rana pretiosa	MVZ137420, AF314020
Rana boylii	MVZ148941, AF314019
Rana aurora	MVZ227645, AF314021
Rana cascadae	MVZ230719, AF314022
Rana muscosa_1 (N. CA)	CAS209386, AF314023
Rana muscosa_2 (S. CA)	MVZ230142, AF314029
Rana macronemis	MVZ218729, AY607311
Rana chaochiaoensis	CAS194478, AY607312
Rana japonicus	MVZ208704, AY607313
Rana_amurensis	CAS194156, AY607314
Rana chensinensis_1 (Gansu)	CAS178022, AY607315
Rana chensinensis_2 (Shaanxi)	CAS178036, AY607316
Rana temporaria	MVZ218655, AF314018

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1-50
Qualifiers1             ND1.............................................
Qualifiers2             1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1.
Xenopus_laevis          GCACCTTTTGACCTTACAGAAGGAGAATCTGAACTTGTTTCAGGTTTTAA
Bufo_andrewsi           GCCCCATTTGACCTAACTGAGGGGGAATCTGAGTTAGTCTCAGGGTTTAA
Rana_limnocharis        ACCCCCTTTGACCTGACGGAGGGCGAATCAGAACTTGTATCCGGATTTAA
Polypedates_leucomystax GCCCCATTTGATTTAACTGAGGGGGAATCAGAACTTGTCTCAGGCTTTAA
Amolops_hongkongensis   GCCCCATTTGACCTTACAGAAGGTGAATCAGAACTAGTTTCAGGATTTAA
Rana_tientaiensis       GCTCCATTTGACCTTACTGAAGGTGAATCTGAACTAGTCTCCGGCTTCAA
Rana_ridibunda          GCCCCTTTTGACCTGACAGAAGGTGAATCTGAACTAGTATCTGGCTTCAA
Rana_nigromaculata      GCTCCATTTGATCTCACAGAGGGTGAATCAGAATTAGTATCCGGGTTTAA
Rana_plancyi            GCTCCATTTGATCTCACAGAGGGTGAATCAGAATTAGTATCCGGGTTTAA
Rana_catesbeiana        GCCCCATTTGACCTCACAGAGGGGGAGTCAGAACTAGTTTCGGGGTTTAA
Rana_sylvatica          GCCCCATTTGACCTCACAGAGGGCGAATCAGAACTAGTTTCAGGTTTTAA
Rana_warschewitschii    GCCCCATTCGATCTTACAGAAGGTGAATCAGAGCTAGTTTCAGGCTTTAA
Rana_areolata           GCCCCATTTGACCTCACAGAGGGTGAATCAGAATTGGTCTCAGGCTTCAA
Rana_pipiens            GCCCCATTTGACCTCACAGAGGGTGAATCAGAATTAGTCTCAGGCTTTAA
Rana_pretiosa           GCCCCCTTCGACCTAACAGAAGGAGAATCAGAACTAGTCTCAGGCTTCAA
Rana_boylii             GCCCCTTTTGACCTCACAGAAGGCGAATCTGAACTAGTTTCGGGCTTCAA
Rana_aurora             GCCCCCTTCGATCTCACAGAAGGGGAATCAGAACTGGTCTCAGGCTTCAA
Rana_cascadae           GCCCCCTTCGACCTCACGGAAGGCGAATCAGAACTAGTCTCGGGTTTTAA
Rana_muscosa_1          GCCCCCTTCGACCTCACAGAAGGTGAATCAGAACTAGTTTCAGGCTTCAA
Rana_muscosa_2          GCACCCTTCGACCTCACAGAAGGCGAGTCAGAACTAGTTTCAGGCTTCAA
Rana_macronemis         GCCCCATTTGACCTCACTGAAGGTGAATCTGAACTAGTCTCAGGCTTTAA
Rana_chaochiaoensis     GCCCCATTTGATCTAACAGAAGGAGAATCCGAACTAGTCTCCGGCTTCAA
Rana_japonicus          GCTCCATTTGATCTAACAGAAGGAGAGTCCGAGTTAGTCTCCGGCTTCAA
Rana_amurensis          GCCCCATTTGACCTTACAGAAGGTGAATCTGAACTAGTCTCTGGCTTCAA
Rana_chensinensis_1     GCCCCATTTGACCTTACGGAAGGTGAATCTGAACTAGTCTCCGGCTTCAA
Rana_chensinensis_2     GCCCCATTTGACCTCACGGAAGGTGAATCTGAACTAGTTTCCGGCTTCAA
Rana_temporaria         GCCCCATTTGACCTCACCGAAGGTGAATCTGAACTAGTCTCTGGCTTCAA
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51-100
Qualifiers1              ..................................................
Qualifiers2              .1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1
Xenopus_laevis           TGTAGAATACGCAGGTGGACCTTTCGCTTTATTTTCCTTAGCCGAATACG
Bufo_andrewsi            TGTAGAATATGCGGGAGGGCCCTTTGCCCTGTTTTTTCTTGCCGAATACG
Rana_limnocharis         TGTAGAATACGCTGGAGGCCCATTTGCACTATTCTTCTTAGCCGAATACT
Polypedates_leucomystax TGTTGAATACGCAAGCGGCCCGTTCGCCTTATTCTTCCTCGCCGAATATG
Amolops_hongkongensis    TGTTGAATATGCAGCAGGCCCATTTGCTCTATTTTTTCTTGCAGAATACG
Rana_tientaiensis        TGTTGAATACGCAGGTGGACCATTTGCCCTGTTTTTCCTAGCAGAATATG
Rana_ridibunda           TGTTGAGTACGCAGGCGGACCATTTGCCTTATTTTTCCTAGCAGAGTATG
Rana_nigromaculata       TGTAGAATACGCCGGCGGCCCATTCGCCTTATTTTTCCTTGCAGAATATG
Rana_plancyi             TGTAGAATACGCCGGCGGCCCATTCGCCTTATTTTTCCTTGCAGAATATG
Rana_catesbeiana         TGTTGAATATGCGGGAGGCCCCTTCGCCTTATTTTTCCTAGCAGAATACG
Rana_sylvatica           TGTTGAATACGCAGGGGGGCCTTTCGCCTTATTCTTCCTGGCAGAATATG
Rana_warschewitschii     CATTGAATATGCAGGAGGACCATTTGCCTTATTCTTTCTTGCAGAATATG
Rana_areolata            TGTTGAATACGCAGGAGGACCCTTCGCCCTATTCTTCTTGGCGGAATACG
Rana_pipiens             TGTAGAATACGCAGGAGGACCCTTTGCCCTATTTTTCTTAGCAGAATATG
Rana_pretiosa            CGTTGAATACGCAGGGGGACCCTTTGCTTTATTTTTCCTCGCGGAATACG
Rana_boylii              TGTAGAATACGCAGGAGGCCCCTTCGCTTTATTTTTCCTCGCTGAATACG
Rana_aurora              TGTTGAATACGCAGGCGGACCCTTCGCTTTATTTTTTCTCGCAGAGTATG
Rana_cascadae            TGTTGAATACGCAGGAGGACCCTTCGCTTTGTTTTTCCTCGCAGAATACG
Rana_muscosa_1           TGTCGAATACGCAGGGGGACCCTTCGCTTTATTTTTCCTCGCAGAATATG
Rana_muscosa_2           TGTTGAATACGCAGGAGGACCCTTTGCTTTATTTTTCCTCGCAGAATACG
Rana_macronemis          TGTCGAATACGCAGGAGGCCCCTTTGCGCTATTTTTTCTCGCAGAATATG
Rana_chaochiaoensis      TGTGGAATATGCAGGAGGACCCTTCGCACTGTTTTTTCTTGCAGAATACG
Rana_japonicus           TGTAGAATATGCAGGGGGACCCTTCGCACTATTTTTCCTTGCAGAATACG
Rana_amurensis           TGTTGAATACGCAGGGGGGCCCTTCGCACTATTTTTTCTTGCAGAGTATA
Rana_chensinensis_1      CGTTGAGTATGCAGGAGGACCCTTCGCGCTATTTTTCCTTGCAGAATATT
Rana_chensinensis_2      CGTTGAGTACGCAGGGGGACCCTTCGCACTATTTTTCCTTGCAGAATACT
Rana_temporaria          TGTCGAATATGCAGGAGGCCCCTTCGCACTATTTTTTCTTGCAGAATACG
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101-150
Qualifiers1              ..................................................
Qualifiers2              ..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..
Xenopus_laevis           CTAATATCCTAATAATAAATACACTTTCTTACTTGATTCTCTTCCTCGGA
Bufo_andrewsi            CTAACATTCTTATAATGAACACCATCTCTGCCGTAATC---TTCCTGGGG
Rana_limnocharis         CTAATATTATAATAATGAACACACTTACTACTATTATT---TTTATTGCC
Polypedates_leucomystax  CTAATATCTTAATAATAAACACTTTGTCAACTATTTTG---TTCCTCGGG
Amolops_hongkongensis    CAAACATTCTTATAATAAACACCCTGACTACAATCATT---TTTCTAGGC
Rana_tientaiensis        CTAATATCTTAATAATTAACACTCTCACAACCATCATC---TTTCTAGGC
Rana_ridibunda           CTAATATCCTTATAATAAACACACTATCCACCATTATT---TTTCTTGGA
Rana_nigromaculata       CTAATATCCTCATAATAAATACTCTATCTACCATTATT---TTTCTCGGT
Rana_plancyi             CTAATATTCTCATAATAAATACCCTATCCACTATTATT---TTTCTCGGT
Rana_catesbeiana         CTAATATTTTAATGATAAATACCCTCTCAACTATTATT---TTTTTAGGT
Rana_sylvatica           CTAACATTCTGATAATGAACACCCTTTCAACTATCATC---TTCCTGGGC
Rana_warschewitschii     CTAACATTTTTATGATAAATACCTTCTCAGTTATCATT---TTTCTGGCC
Rana_areolata            CTAACATCTTAATAATAAACACATTTTCCGTGATTCTT---TTCCTGAGC
Rana_pipiens             CCAATATTCTAATAATGAATACATTTTCCGTAATTCTT---TTCCTGAGC
Rana_pretiosa            CCAACATTTTAATGATAAATACTCTTTCGACTGTTATT---TTTCTTGGT
Rana_boylii              CTAACATTTTGATAATAAATACCCTCTCAACTCTCATC---TTTCTTGGC
Rana_aurora              CCAATATTTTAATAATAAATACCCTCTCAACTGTCATC---TTCCTCGGC
Rana_cascadae            CCAATATTTTGATAATAAACACCCTTTCAACTGTTATC---TTTCTTGGC
Rana_muscosa_1           CCAATATTTTGATAATGAACACCCTTTCTACTGTCATC---TTTCTTGGC
Rana_muscosa_2           CCAACATTTTAATAATGAACACCCTTTCTACTGTCATC---TTTCTTGGC
Rana_macronemis          CTAACATCCTAATAATAAATACCCTCTCGGCTATTATT---TTTTTGGGC
Rana_chaochiaoensis      CTAATATCTTGATAATAAACACCCTCTCAGCTATTATC---TTTCTCGGC
Rana_japonicus           CCAACATCTTAATAATGAATACTCTCTCGACTGTCATC---TTTCTCAGC
Rana_amurensis           CCAATATCCTAATAATATGTACCCTTTCAACCATTATC---TTTCTTGGC
Rana_chensinensis_1      CTAATATTTTGATAATAACTTCCCTCTCAGCCATCATC---TTTCTTGGC
Rana_chensinensis_2      CTAATATTTTGATAATAACTTCCCTCTCAGCCATCATC---TTTCTTGGC
Rana_temporaria          CCAATATCCTAATGATAAATACCCTCTCGACTATTGTT---TTTCTCAGC
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151-200
Qualifiers1             ..................................................
Qualifiers2             1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1.
Xenopus_laevis          TCTTCATTTATAAACCAACCGGAACTAACTACTATTTCCTTAATAATTAA
Bufo_andrewsi           TCCTCCACCCTCTTTATTCTTACTCTTACCACCTCCTCACTTATACTTAA
Rana_limnocharis        ACAGCTATCTGTGCTATT------CTCCCCACTACATCTCTAATAACAAA
Polypedates_leucomystax GCCGCAATATTAATAAAAACG---TTCTCAACAATTTTTCTCATGTTAAA
Amolops_hongkongensis   TCATATACACCATCACTCGCC---CTTTCTACAACCTTGTTAATAACCAA
Rana_tientaiensis       TCCCTCCTACCCCTATTAACC---CTCTCTACAGCTCTACTCATAGCTAA
Rana_ridibunda          TCTTGCCTAACATCACTGACA---CTCTCAACAGCCTTTCTTATGACTAA
Rana_nigromaculata      TCACACTATTCCTCATTACCT---CTCTCTACAGCCCTACTTATAACTAA
Rana_plancyi            TCACACTATTCCTCGTTGCCT---CTCTCTACAGCCCTACTTATAACTAA
Rana_catesbeiana        TCCTGTATATCATCACTAACC---CTAACCACATCCCTACTCATAACTAA
Rana_sylvatica          TCCTATAATTTATCGTTAGCC---TTAACCACAATTATACTTATAACTAA
Rana_warschewitschii    TCCTCCTCACTTCCT---GCT---CTAACTACAATTATACTCATATCTAA
Rana_areolata           TCTGCCACAATATCCTCAGCC---TCTGCTACTATCTTATTCATGACTAA
Rana_pipiens            TCTGCCTCGGTATCCTCAACC---TCAACTACAATTTTATTTATGACTAA
Rana_pretiosa           TCCCACATATTGTCATTAACC---TTATCCACATCCCTACTCATAACCAA
Rana_boylii             TCACACATAACATCGTTAACC---TTATCCTCATCCCTCCTCATGGCTAA
Rana_aurora             TCCCATATACTATCATTAACC---CTATCCACATCTCTACTCATGACTAA
Rana_cascadae           TCACACATACTATCATTAACC---TTATCCACATCCCTACTCATGACTAA
Rana_muscosa_1          TCCCACATATTATCATTAACC---TTATCCACATCTCTTCTCATAACCAA
Rana_muscosa_2          TCCCACATATTGTCATTAACC---TTATCCACATCTCTTCTCATAACCAA
Rana_macronemis         TCCAACATACTATCACTAACT---CTATCCACATCCGTACTCATAACTAA
Rana_chaochiaoensis     CCCCACACTCTGTCACTAATT---ATATCCACATTTGATCTCATAACTAA
Rana_japonicus          CCCCATACACTGTCGATAATT---CTCTTTACACTTGATCTTATAACGAA
Rana_amurensis          TCTCATATATTACTACTACTC---CTATCTACATCCTCCCTTATAACTAA
Rana_chensinensis_1     TCCCACATATTACTACTAATT---CTCTCTACCCCCACTCTAATAACCAA
Rana_chensinensis_2     TCCCACATGCTACTACTAATT---CTCTCTACCCCCACTCTAATAACCAA
Rana_temporaria         TCCTTCATTCTATTACTAGTC---TTATCTGCATTTGTACTCATAACTAA
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201-250
Qualifiers1              ..................................................
Qualifiers2              .1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1
Xenopus_laevis           ATCATCCATCTTATCAATAATTTTCCTATGAGTTCGAGCATCATACCCAC
Bufo_andrewsi            ATCAGCTATCTTATCAATGATTTTTCTCTGAGTACGAGCATCCTACCCAC
Rana_limnocharis         AGCTTCTCTACTTTCTCTCTCTTTTTTATGAGTTCGTGCCTCCTATCCAC
Polypedates_leucomystax AGCATCATCAATATCCATCTATTTTTTATGAATTCGTGCCTCATATCCGC
Amolops_hongkongensis    AGCTTCCATCTTATCTCTCTGCTTTTTATGAATTCGAGCCTCATACCCAC
Rana_tientaiensis        AACCTCACTCCTCTCTCTCTCCTTCCTATGAATTCGAGCCTCATACCCCC
Rana_ridibunda           AGCCTCTATCCTTTCCCTCTGTTTTCTTTGGGTCCGAGCCTCTTACCCAC
Rana_nigromaculata       AGCCTCAATCCTCTCCCTCTGCTTTCTCTGAGTCCGAGCCTCCTACCCAC
Rana_plancyi             AGCCTCAATCCTCTCCCTCTGCTTTCTCTGAGTCCGAGCCTCCTACCCAC
Rana_catesbeiana         AGCCTCAATTTTATCCCTCTGCTTCTTATGAGTCCGAGCTTCATATCCAC
Rana_sylvatica           AGCTTCAATTTTATCTCTGTGTTTCTTATGAATCCGAGCCTCATACCCAC
Rana_warschewitschii     AGCCTCTGCTTTATCCCTCTGTTTTTTGTGAATCCGGGCCTCATACCCAC
Rana_areolata            AGCCTCACTTTTATCCCTCTGCTTTCTATGAATCCGAGCCTCATACCCAC
Rana_pipiens             AGCCTCACTCTTATCTCTTTGCTTTCTATGAATTCGAGCCTCATATCCAC
Rana_pretiosa            AGCTTCAATTCTATCCCTCTGCTTCCTATGAATTCGAGCTTCATACCCAC
Rana_boylii              AGCCTCAATCCTATCTCTTTGCTTCTTGTGAATTCGAGCTTCTTACCCAC
Rana_aurora              GGCCTCAATTCTGTCTCTCTGTTTCCTATGAATCCGAGCCTCATACCCAC
Rana_cascadae            AGCTTCAATTCTGTCTCTCTGCTTCTTATGAATTCGAGCTTCATACCCAC
Rana_muscosa_1           AGCCTCAATTCTGTCTCTCTGCTTTTTATGAATCCGAGCCTCATACCCGC
Rana_muscosa_2           AGCCTCAATTCTGTCCCTCTGCTTCTTATGAATCCGAGCCTCATACCCGC
Rana_macronemis          AGCCTCAATCCTGTCCCTCTGCTTCCTGTGAATCCGAGCCTCTTACCCCC
Rana_chaochiaoensis      AGCCTCTATTTTATCTATCTCCTTCCTGTGGATCCGAGCCTCCTACCCCC
Rana_japonicus           AGCCTCTATCTTATCTATTATCTTCTTATGGGTCCGAGCCTCCTACCCCC
Rana_amurensis           AGCCTCAATTTTAACCTTCTGCTTTCTATGAATTCGAGCTTCTTATCCCC
Rana_chensinensis_1      AGCCTCCCTATTAGCCGTCTGCTTCTTATGAATCCGAGCCTCATACCCCC
Rana_chensinensis_2      AGCCTCCCTGTTAGCCGTCTGCTTCCTATGAATCCGAGCCTCATACCCCC
Rana_temporaria          AGCCTCCATTCTAGCCCTCTGCTTTTTGTGAATCCGAGCCTCTTACCCCC
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251-300
Qualifiers1              ..................................................
Qualifiers2              ..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..
Xenopus_laevis           GATTTCGATATGATCAACTTATACACCTAGTATGAAAAAACTTCCTCCCA
Bufo_andrewsi            GATTTCGATATGACCAGTTAATACACCTCGTCTGAAAAAATTTTCTCCCC
Rana_limnocharis         GATTCCGCTACGATCAACTAATACACTTGGTCTGGAAGAACTTTCTTCCA
Polypedates_leucomystax GATTCCGTTATGACCAACTTATACATCTTGCCTGAAAGAATTTCTTGCCT
Amolops_hongkongensis    GATTCCGCTATGATCAGCTCATACATCTCGTATGAAAAAACTTCCTTCCA
Rana_tientaiensis        GATTTCGCTACGACCAACTCATACACCTCGTGTGAAAAAACTTCCTCCCT
Rana_ridibunda           GGTTCCGCTATGATCAACTTATGCACCTTGTATGAAAAAATTTTCTCCCC
Rana_nigromaculata       GATTCCGCTACGATCAACTTATACACCTTGTATGAAAAAACTTTCTCCCT
Rana_plancyi             GATTCCGCTACGATCAACTTATACACCTTGTATGAAAAAGCTTCCTCCCT
Rana_catesbeiana         GATTTCGCTATGATCAACTTATACACCTTGTATGAAAAAACTTTCTCCCA
Rana_sylvatica           GATTCCGCTACGACCAGCTTATACATCTAGTATGAAAAAATTTTCTTCCA
Rana_warschewitschii     GCTTCCGCTACGACCAGCTGATGCATCTTGTATGAAAAAACTTTCTACCA
Rana_areolata            GATTTCGTTATGATCAACTTATACACCTTGTATGAAAAAACTTTCTACCC
Rana_pipiens             GATTCCGATATGATCAACTCATGCATCTTGTTTGAAAAAATTTTTTACCC
Rana_pretiosa            GATTCCGCTATGACCAACTTATGCACCTTGTATGAAAAAATTTTCTTCCA
Rana_boylii              GGTTCCGTTATGATCAACTCATACACCTAGTGTGAAAGAATTTTCTTCCC
Rana_aurora              GATTTCGCTACGATCAACTCATGCACCTTGTATGAAAAAATTTTCTCCCC
Rana_cascadae            GATTTCGCTACGATCAACTCATGCACCTAGTATGAAAAAATTTTCTCCCC
Rana_muscosa_1           GATTCCGCTACGATCAACTCATACACCTTGTATGAAAAAATTTTCTCCCA
Rana_muscosa_2           GATTCCGCTATGATCAACTCATGCACCTTGTATGAAAAAATTTTCTCCCA
Rana_macronemis          GATTCCGCTATGATCAGCTTATGCATCTCGTATGAAAAAACTTCCTCCCC
Rana_chaochiaoensis      GATTCCGCTATGACCAACTTATACACCTTGTATGAAAAAACTTCCTCCCC
Rana_japonicus           GATTCCGCTATGATCAGCTTATACACCTTGTGTGAAAGAATTTTCTCCCC
Rana_amurensis           GATTCCGCTACGACCAGCTCATACACCTTGTATGAAAAAATTTTTTACCT
Rana_chensinensis_1      GATTCCGCTATGACCAACTTATGCACCTTGTATGAAAAAATTTCCTCCCC
Rana_chensinensis_2      GATTCCGCTATGACCAACTTATGCACCTTGTATGAAAAAATTTCCTCCCT
Rana_temporaria          GATTCCGCTATGACCAGCTTATGCATCTCGTATGAAAAAACTTCCTCCCC
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301-350
Qualifiers1              ..................................................
Qualifiers2              1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1.
Xenopus_laevis           ATCACACTAGCCATAACATTATGACATATCTCATTACCAATTTCTATGCT
Bufo_andrewsi            CTCACCCTAGCACTAACAATCTGGTTTATCTCATTTCCAATTTCACTTTT
Rana_limnocharis         ATAACTCTGGCCCTCTTAATTATCTACATTTCACTCCCAATAGAAGCCTT
Polypedates_leucomystax ATTACAATCGCCGCTACAATAATTTTTATCTCTATACCAACCTCAACTTT
Amolops_hongkongensis    CTAACACTCGCACTCACTATTTTCCATATTTCTATGCCCATTTCTCTTCT
Rana_tientaiensis        CTAACGCTTGCCCTAATTATTTTTAACATCTCTGTACCAACCTCCCTTCT
Rana_ridibunda           CTCACACTAGCCCTAATTATCTTCCACATTTCTATGCCTGTCTCCCTCCT
Rana_nigromaculata       CTTACACTAGCTCTCATTATCTTTCATATTTCCATGCCAATTTCCCTTCT
Rana_plancyi             CTTACACTAGCTCTCATTATCTTTCATATTTCCATGCCAATTTCCCTTCT
Rana_catesbeiana         CTTACACTTGCCCTAGTTATTCTATATGTTTCTATACCAATCTCCCTCCT
Rana_sylvatica           TTAACCCTGGCTATAGTTATCCTTTATGTCTCTATACCCATTTCCCTCCT
Rana_warschewitschii     CTAACCCTTGCTTTAATTATTTCCTTTATTTCTGTATTAGTTTCCCTTGT
Rana_areolata            TTAACTCTTGCTATAGTCATTATCTTCATCTCTATCCCAGTCTCTCTCCT
Rana_pipiens             CTGACTCTCGCTCTAGTCATTATCTTTATTTCTATTCCAGTTTCCCTCCT
Rana_pretiosa            TTAACACTTGCCCTAGTTATCTTCTATGTCTCTATACCAATTTCCCTCCT
Rana_boylii              CTAACACTTGCCCTAGTTATCCTCTTTATCTCTATACCCATTTCCCTCCT
Rana_aurora              TTAACACTTGCCCTAGTTATCCTTTATATTTCTATACCAATTTCCCTCCT
Rana_cascadae            TTAACACTTGCCTTAGTTATCCTTTACATTTCTATACCAATTTCCCTCCT
Rana_muscosa_1           TTAACACTTGCCCTGGTCATCCTTTATATCTCTATACCAATTTCCCTCCT
Rana_muscosa_2           TTAACACTTGCCCTAGTCATCCTTTATATTTCTATACCAATTTCCCTCCT
Rana_macronemis          CTCACACTCGCCCTAGTTATTTTCTTTATCTCTATGCCAATCTCCCTTCT
Rana_chaochiaoensis      CTTACACTTGCTTTCACCATCTTTTTCATCTCTGTACCAACCTCTCTCCA
Rana_japonicus           CTTACACTTGCCTTCACCATTTTTTTCATCTCTGTACCAACATCCCTTCA
Rana_amurensis           CTCACACTTGCCCTTATCATTTTCTATATCTCCATACCAATTTCCACTCT
Rana_chensinensis_1      CTCACGCTTGGGCTGCTAATCTTCTATATCTCTATTCCAACCTCCCTCCT
Rana_chensinensis_2      CTTACGCTCGGACTGCTAATCTTCTATATCTCTATACCAACCTCCCTCCT
Rana_temporaria          CTCACACTTGCCCTGGTCATTTTTTTTATCTCTATACCCACCTCCCTTCT
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351-400
Qualifiers1              ..................ND1ILE.........................
Qualifiers2              .1..1..1..1..1..1..STAA>>>>>..D>>>......D>>>.AC>>>
Xenopus_laevis           AGGCCTACCATCACAAACCTAGGAAATGTGCCCGAAAGTCAGGGATCACT
Bufo_andrewsi            ACTAACCCCGCCCATCTCAT-GGAAACGTGCCTGAAAGCTAAGGACCTCC
Rana_limnocharis         TGCCTCCCCTCCTACAATTT-GAAAGTGTGCCCGAAAGTTAGGGTTCTCC
Polypedates_leucomystax  AATTTCCCCTCCTATAATAT-GGAAGCGTGCCCGAAAGATAAGGACCTCC
Amolops_hongkongensis    TCTTACCCCCCCATTACCAT-GGAAGCGTGCCTGAAAGCTAAGGACCTCC
Rana_tientaiensis        CTTCACCCCCCCACTACCCT-GGAAGTGTGCCTGAAAGCCAAGGACCTCC
Rana_ridibunda           ATTTACTCCCCCCCTGCCCT-GGAAGTGTGCCTGAAAGCTAAGGACCTCC
Rana_nigromaculata       CTTCACCCCCCCACTGCCCT-GGAAGCGTGCCTGAAAGCTAAGGACCTCC
Rana_plancyi             CTTCACCCCCCCACTGCCCT-GGAAGCGTGCCTGAAAGCTAAGGACCTCC
Rana_catesbeiana         CTTCACTCCTCCCCTACCAT-GGAAGCGTGCCTGAAAGTTAAGGACCTCC
Rana_sylvatica           CTTCACCCCCCCACTGCCCT-GGAAGCGTGCCTGAAAGCTAAGGACCTCC
Rana_warschewitschii     ATTCACCCCCCCTTCACCAT-GGAAGCGTGCCCGAAAGATAAGGACCTCC
Rana_areolata            CTTTACCCCACCCTTGCCAT-GGAAGCGTGCCCGAAAGCTAAGGACCTCC
Rana_pipiens             CCTTGCCCCCCCCATTACCAT-GGAAGTGTGCCCGAAAGTTACGGATCTCC
Rana_pretiosa            CCTTACCCCACCCCTACCCT-GGAAGTGTGCCTGAAAGCTAAGGACCTCC
Rana_boylii              CCTTACCCCACCCCTTCCCT-GGAAGTGTGCCTGAAAGCTAAGGACCTCC
Rana_aurora              CCTCGCCCCGCCACTACCCT-GGAAGCGTGCCTGAAAGCTAAGGACCTCC
Rana_cascadae            CCTTACCCCGCCCTTGCCCT-GGAAGTGTGCCTGAAAGCTAAGGACCTCC
Rana_muscosa_1           CCTTACCCCACCCCTGCCCT-GGAAGTGTGCCTGAAAGCTAAGGACCTCC
Rana_muscosa_2           CCTTACCCCGCCCCTGCCCT-GGAAGTGTGCCTGAAAGCTAAGGACCTCC
Rana_macronemis          CCTCACCCCCCCCACTCCCTT-GGAAGCGTGCCTGAAAGCTAAGGACCTCC
Rana_chaochiaoensis      CCTCAATCCTCCCCTGCCCT-GGAAGCGTGCCTGAAAGCTAAGGACCTCC
Rana_japonicus           CCTTAATCCCCCTCTACCTT-GGAAGCGTGCCTGAAAGCTAGGGACCTCC
Rana_amurensis           CCTCTCCCCCCCCTTACCCT-GGAAGCGTGCCTGAAAGATAGGGACCTCC
Rana_chensinensis_1      CCTCATTCCCCCCTTACCCT-GGAAGCGTGCCTGAAAGCTAGGGACCTCC
Rana_chensinensis_2      CCTCATTCCCCCCTTACCCT-GGAAGCGTGCCTGAAAGCTAGGGACCTCC
Rana_temporaria          CCTCACCCCCCCACTCCCCT-GGAAGTGTGCCTGAAAGCTAGGGACCTCC
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401-450

```
Qualifiers1              .....................................ILE...GLN
Qualifiers2              ..COD..AC>>>....T>>>>..........T>>>>AA>>>>>*...<<<
Xenopus_laevis           TTGATAGAGTGAAATATATGGGTTCAAACCCCATCATCTCCT-----TAG
Bufo_andrewsi            TTGATAGGGAGAACAATAGGAGTTCAAATCTCCTCGCTTCCT-----TAG
Rana_limnocharis         TTGATAGGGAGGCTTATAGAGGTTCAAACCCTCTCGCTTTCTC----TAA
Polypedates_leucomystax  TTGATAGGGAGGCTAATATGGGTTCAAACCCCATCACTTCCT-----TAA
Amolops_hongkongensis    TTGATAGGGAGGCAAATAGGGGTTCAAACCCCCTTGCTTCCTCATCTTAA
Rana_tientaiensis        TTGATAGGGAGTCTCATAGGGGTTCAAACCCCCTCTCTTCCT-----TAA
Rana_ridibunda           TTGATAGGGAGGCTAATAGGGGTTCAAACCCCCTCACTTCCTC----TAA
Rana_nigromaculata       TTGATAGGGAGGCTAATAGGGGTTCAAACCCCCTCACTTCCTC----TAA
Rana_plancyi             TTGATAGGGAGGCTAATAGGGGTTCAAACCCCCTCACTTCCTC----TAA
Rana_catesbeiana         TTGATAGGGAGGCTTATAGGGGTTCAAACCCCCTCACTTCCTC----TAA
Rana_sylvatica           TTGATAGGGAGGCTCATAGGGGTTCAAACCCCCTCACTTCCTT----TAA
Rana_warschewitschii     TTGATAGGGAGACTAATAGGAGTTCAAACCTCCTCACTTCCTC----TAA
Rana_areolata            TTGATAGGGAGACCTATAGGGGTTCAAACCCCCTCACTTCCTT----TAA
Rana_pipiens             TTGATAGGGAGACCTATAGGGGTTCAAACCCCCTCACTTCCTT----TAA
Rana_pretiosa            TTGATAGGGAGGCTCATAGGGGTTCAAACCCCCTCACTTCCTT----TAA
Rana_boylii              TTGATAGGGAGGCTCATAGGGGTTCAAACCCCCTCACTTCCTC----TAA
Rana_aurora              TTGATAGGGAGGCTCATAGGGGTTCAAACCCCCTCACTTCCTT----TAA
Rana_cascadae            TTGATAGGGAGGCTCATAGGGGTTCAAACCCCCTCACTTCCTT----TAA
Rana_muscosa_1           TTGATAGGGAGGCTCATAGGGGTTCAAACCCCCTCATTTCCTT----TAA
Rana_muscosa_2           TTGATAGGGAGGCTCATAGGGGTTCAAACCCCCTCACTTCCTT----TAA
Rana_macronemis          TTGATAGGGAGGCTAATAGGGGTTCAAACCCCCTCACTTCCTT----TAA
Rana_chaochiaoensis      TTGATAGGGAGGCTAATAGGGGTTCAAACCCCCTCACTTCCTTT---TAA
Rana_japonicus           TTGATAGGGAGGCTAATAGGGGTTCAAACCCCCTCACTTCCTT----TAA
Rana_amurensis           TTGATAGGGAGGCTGATAGGGGTTCAAACCCCCTCACTTCCTC----TAA
Rana_chensinensis_1      TTGATAGGGAGGCTAATAGGGGTTCAAACCCCCTCACTTCCTT----TAA
Rana_chensinensis_2      TTGATAGGGAGGCTAATAGGGGTTCAAACCCCCTCACTTCCTT----TAA
Rana_temporaria          TTGATAGGGAGGCCAATAGGGGTTCAAACCCCCTCACTTCCTT----TAA
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451-500
Qualifiers1              ..................................................
Qualifiers2              <<AA<<<<T.......<<<<T....<<<AC..COD..<<<AC.<<<D...
Xenopus_laevis           AAAGACAGGAATTGAACCTGCACCTGAGAGATCAAAACCCTCCGTACTCC
Bufo_andrewsi            AAAGATAGGAATTGAACCTATAACTGAGAGATCAAAACTCCCTGTAATTC
Rana_limnocharis         AGAGATAGGAATTGAACCTACACCTAAGAGATCAAAACTCTTCGCACTCC
Polypedates_leucomystax  AGAGATAGGAGTTGAACCTACGTCTAAGGGATCAAAACCCTTCGCTATTC
Amolops_hongkongensis    AGAGATAGGAATTGAACCTATATTAGAGAGATCAAAACCCTCTGTACTCC
Rana_tientaiensis        AGAAATAGGAATTGAACCTACACTTAAGAGATCAAAACCCTTTGTACTTC
Rana_ridibunda           AGAAATAGGAGTCGAACCTATACCTAAGAGATCAAAACCCTTTGTACTTC
Rana_nigromaculata       AGAGATAGGAGTCGAACCTACACCTAAGAGATCAAAACCCTTTGTACTTC
Rana_plancyi             AGAGATAGGAGTCGAACCTACACCTAAGAGATCAAAACCCTTTGTACTTC
Rana_catesbeiana         AGAGATAGGAATTGAACCTATACTTAAGAGATCAAAACCCTTTGTACTTC
Rana_sylvatica           AGAAATAGGAATCGAACCTATACCTAAGAGATCAAAACCCTTTGTACTTC
Rana_warschewitschii     GCAAATAGGAATTGAACCTACACCTAAGGGATCAAAACCCTTTGTACTTC
Rana_areolata            AGAAACAGGAATTGAACCTGTACCTGAGAGATCAAAACCCTCTGTACTTC
Rana_pipiens             AGAGGCAGGAATTGAACCTGCACCTGAGAGATCAAAACCCTCTGTACTCC
Rana_pretiosa            AGAGATAGGAATCGAACCTACACCTAAGAGATCAAAACCCTTTGCACTTC
Rana_boylii              AGAGATAGGAGTCGAACCTACACCTAAGAGATCAAAACCCTTTGTACTTC
Rana_aurora              AGAGGTAGGAATCGAACCTACACCTAAGAGATCAAAACCCTTTGCACTTC
Rana_cascadae            AGAGATAGGAATCGAACCTACACCTAAGAGATCAAAACCCTTTGCACTCC
Rana_muscosa_1           AGAGATAGGAATCGAACCTACACCTAAGAGATCAAAACCCTTTGCACTTC
Rana_muscosa_2           AGAGATAGGAATCGAACCTACACCCAAGAGATCAAAACCCTTTGCACTTC
Rana_macronemis          AGAGATAGGACTCGAACCTATACCTGAGAGATCAAAACCCTCTGCACTCC
Rana_chaochiaoensis      AAAGATAGGAATCGAACCTACATCTGAGAGATCAAAACCCTCTGTACTTC
Rana_japonicus           AAAAATAGGGATCGAACCTATATCTGAGAGATCAAAACTCTCTGTACTTC
Rana_amurensis           AGAGATAGGAATTGAACCTATGCCTGAGAGATCAAAACCCTCTGCACTTC
Rana_chensinensis_1      AGAAATAGGAATTGAACCTATACCTGAGAGATCAAAACTCTCTGTACTCC
Rana_chensinensis_2      AGAAATAGGAATCGAACCTATACCTGAGAGATCAAAACTCTCTGTACTCC
Rana_temporaria          AGAGATAGGAGTTGAACCTATACCTGAGAGATCAAAACCCTCTGCACTTC
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501-550
Qualifiers1             ..............GLN.................................
Qualifiers2             ....<<<D..<<<<<AAA>>>>>..D>>>.......D>>>.AC>>>..CO
Xenopus_laevis          CACTATACCACTTCCTA---------------------------------
Bufo_andrewsi           CATTTTACCACTTTCTA---------------------------------
Rana_limnocharis        CTCTATGCTACTCTTTAGTAAGGTCAGCTAATTCTAAGCTTTTGGGCTCA
Polypedates_leucomystax CACCTTGCTTCTCTTTA---------------------------------
Amolops_hongkongensis   CCTTGTACTACTCCTTA---------------------------------
Rana_tientaiensis       CCTTATACTATTCCTTA---------------------------------
Rana_ridibunda          CTTTATACTACTCCTTA---------------------------------
Rana_nigromaculata      CTTTATACTACTCCTTA---------------------------------
Rana_plancyi            CTTTATACTACTCCTTA---------------------------------
Rana_catesbeiana        CTTTATACTACTCCTTA---------------------------------
Rana_sylvatica          CTTTATACTACTCCTTA---------------------------------
Rana_warschewitschii    CCTTATACTATTCCTTA---------------------------------
Rana_areolata           CATTATACTTCTCCTTA---------------------------------
Rana_pipiens            CCCTATACTACTCCTTA---------------------------------
Rana_pretiosa           CCTTATACTACTCCTTA---------------------------------
Rana_boylii             CTCTATACTACTCCTTA---------------------------------
Rana_aurora             CTTTATACTACTCCTTA---------------------------------
Rana_cascadae           CTTTATACTACTCCTTA---------------------------------
Rana_muscosa_1          CTTTGTACTACTCCTTA---------------------------------
Rana_muscosa_2          CTTTATACTACTCCTTA---------------------------------
Rana_macronemis         CCTTATACTACTCCTTA---------------------------------
Rana_chaochiaoensis     CTTTGTACTACTTCTTA---------------------------------
Rana_japonicus          CTTTGTACTACTCCTTA---------------------------------
Rana_amurensis          CCCTATGCTACTCCTTA---------------------------------
Rana_chensinensis_1     CCTTATACTACTCCTTA---------------------------------
Rana_chensinensis_2     CCTTATACTACTCCTTA---------------------------------
Rana_temporaria         CATTATACTACTCCTTA---------------------------------
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551-600
Qualifiers1              .....................................MET......
Qualifiers2              D..AC>>>....T>>>>.......T>>>>AA>>>>>*....A>>>>>..D
Xenopus_laevis           ----------------------------------------GTAAAGTCA
Bufo_andrewsi            ----------------------------------------GTAAAGTCA
Rana_limnocharis         TGCCCCAACCATGTTGGTTCAAATCCTCCCCTTACTACCCGGTAAAGTCG
Polypedates_leucomystax  ----------------------------------------GTAAGATCA
Amolops_hongkongensis    ----------------------------------------GTAAAGTCA
Rana_tientaiensis        ----------------------------------------GTAAAGTAA
Rana_ridibunda           ----------------------------------------GTAAAGTCA
Rana_nigromaculata       ----------------------------------------GTAAAGTCA
Rana_plancyi             ----------------------------------------GTAAAGTCA
Rana_catesbeiana         ----------------------------------------GTAAGGTAA
Rana_sylvatica           ----------------------------------------GTAAGGTAA
Rana_warschewitschii     ----------------------------------------GTAAGGTAA
Rana_areolata            ----------------------------------------GTAAGGTAA
Rana_pipiens             ----------------------------------------GTAAAGTAA
Rana_pretiosa            ----------------------------------------GTAAGGTAA
Rana_boylii              ----------------------------------------GTAAGGTAA
Rana_aurora              ----------------------------------------GTAAGGTAA
Rana_cascadae            ----------------------------------------GTAAGGTAA
Rana_muscosa_1           ----------------------------------------GTAAGGTAA
Rana_muscosa_2           ----------------------------------------GTAAGGTAA
Rana_macronemis          ----------------------------------------GTAAGGTAA
Rana_chaochiaoensis      ----------------------------------------GTAAGGTAA
Rana_japonicus           ----------------------------------------GTAAGGTAA
Rana_amurensis           ----------------------------------------GTAAGGTAA
Rana_chensinensis_1      ----------------------------------------GTAAGGTAA
Rana_chensinensis_2      ----------------------------------------GTAAGGTAA
Rana_temporaria          ----------------------------------------GTAAGGTAA
```

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601-650
Qualifiers1              ..................................................
Qualifiers2              >>>......D>>>.AC>>>..COD..AC>>>....T>>>>.......T>>
Xenopus_laevis           GCTAAA-AAAGCTTTTGGGCCCATACCCCAAACATGTTGGTTAAACCCCT
Bufo_andrewsi            GCTAAA-CAAGCTTTTGGGCCCATACCCCAAACATGTTGGTTAAACCCCC
Rana_limnocharis         GCTAAT-TAAGCTCTTGGGCCCATACCCCAACAATGTAGGTGAAATCCCT
Polypedates_leucomystax  GCTAAA-AAAGCTTTTGGGCCCATACCCCAACAATGTTGGTTAAACTCCT
Amolops_hongkongensis    GCTAACACAAGCTTTTGGGCCCATACCCCAACAATGTCGGTTAAAATCCT
Rana_tientaiensis        GCTAAA-TAAGCTTTTGGGCCCATACCCCAACAATGTTGGTTAAAATCCT
Rana_ridibunda           GCTAAA-TAAGCTTTTGGGCCCATACCCCAACAATGTTGGTTAAAATCCT
Rana_nigromaculata       GCTAAA-TAAGCTTTTGGGCCCATACCCCAACAATGTTGGTTAAAATCCT
Rana_plancyi             GCTAAA-TAAGCTTTTGGGCCCATACCCCAACAATGTTGGTTAAAATCCT
Rana_catesbeiana         GCTAAA-TAAGCTTTTGGGCCCATACCCCAACAATGTTGGTTAAAATCCT
Rana_sylvatica           GCTAAA-TAAGCTCTTGGGCCCATACCCCAATAATGTTGGTTAAAATCCT
Rana_warschewitschii     GCTAAA-TAAGCTCTTGGGCCCATACCCCAATCATGTTGGTTAAAATCCT
Rana_areolata            GCTAAA-TAAGCTCTTGGGCCCATACCCCAATAATGTTGGTTAAAATCCT
Rana_pipiens             GCTAAA-TAAGCTCTTGGGCCCATACCCCAATAATGTTGGTTAAAATCCT
Rana_pretiosa            GCTAAA-TAAGCTTTTGGGCCCATACCCCAACAATGTTGGTTAAAATCCT
Rana_boylii              GCTAAA-TAAGCTTTTGGGCCCATACCCCAACAATGTTGGTTAAAATCCT
Rana_aurora              GCTAAA-TAAGCTTTTGGGCCCATACCCCAACAATGTTGGTTAAAATCCT
Rana_cascadae            GCTAAA-TAAGCTTTTGGGCCCATACCCCAACAATGTTGGTTAAAATCCT
Rana_muscosa_1           GCTAAA-TAAGCTTTTGGGCCCATACCCCAACAATGTTGGTTAAAATCCT
Rana_muscosa_2           GCTAAA-TAAGCTTTTGGGCCCATACCCCAACAATGTTGGTTAAAATCCT
Rana_macronemis          GCTAAA-TAAGCTTTTGGGCCCATACCCCAACAATGTTGGTTAAAATCCT
Rana_chaochiaoensis      GCTAAA-TAAGCTTTTGGGCCCATACCCCAACAATGTTGGTTAGAATCCT
Rana_japonicus           GCTAAA-TAAGCTTTTGGGCCCATACCCCAACAATGTTGGTTAAAATCCT
Rana_amurensis           GCTAAA-TAAGCTTTTGGGCCCATACCCCAAAAATGTTGGTTAAAATCCT
Rana_chensinensis_1      GCTAAA-CAAGCTTTTGGGCCCATACCCCAACAATGTCGGTTAAAATCCT
Rana_chensinensis_2      GCTAAA-CAAGCTTTTGGGCCCATACCCCAACAATGTCGGTTAAAATCCT
Rana_temporaria          GCTAAA-TAAGCTTTTGGGCCCATACCCCAACAATGTTGGTTAAAATCCT
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651-700

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Qualifiers1              .......METND2.....................................
Qualifiers2              >>AA>>>>>*1..1..1..1..1..1..1..1..1..1..1..1..1..1
Xenopus_laevis           TCCTTTACTAATGAACCCAATCACATTTTCAGTTGTACTAACCAGCCTTG
Bufo_andrewsi            TCCTTTACTAATAAATCCCTATGCTCTATCAATAATTGTCTCAAGCCTTG
Rana_limnocharis         TCCTTTACCTATCAACCCAGCAACACTTTCAGTCCTGATTATCAGTCTCA
Polypedates_leucomystax TCTCTTACTAATTAACCCCCTAGCTTACTCTATATTTTTACTTAGCCTCG
Amolops_hongkongensis    TCCTTTACTAATTAACCCTCTTGCCTTAACAATATTCCTTATTAGCCTCG
Rana_tientaiensis        TCCTCTACTAATTAACCCACTTGCCCTAACCATTTTTCTTCTTAGCCTCG
Rana_ridibunda           TCCTTTACTAATTAACCCCCTTGCCTTGACAATTTTTTTACTAAGCCTCG
Rana_nigromaculata       TCCTTTACTAATTAATCCCCTCGCCCTGACAATTTTTTTATTTAGCCTCG
Rana_plancyi             TCCTTTACTAATTAATCCCCTCGCCCTGACAATTTTTTTATTTAGCCTCG
Rana_catesbeiana         TCCTTTACTAATTAATCCTCTTGCCCTAACAATTTTCCTACTAAGTTTAG
Rana_sylvatica           TCCTTTACTAATTAATCCTCTTGCCCTAACAATTTTTCTACTAAGCCTCG
Rana_warschewitschii     TCCTTTGCTAATTAATCCCCTTGCCCTAACAATTTTATTATTAAGCCTTG
Rana_areolata            TCCTTTACTAATTAACCCCCTCGCCTTAACAATTTTCCTTTTAAGTCTTG
Rana_pipiens             TCCTCTACTAATCAACCCTCTCGCTTTAACAATTTTTCTCTTAAGTCTCG
Rana_pretiosa            TCCTTTACTAATTAACCCCCTCGCCCTAACAATCTTCCTATTAAGCCTCG
Rana_boylii              TCCTTTACTAATTAACCCTCTTGCCCTAACAATTTTCCTGCTAAGTCTCG
Rana_aurora              TCCTTTACTAATTAACCCCCTCGCCCTAACAATCTTCCTATTAAGCCTCG
Rana_cascadae            TCCTTTACTAATTAACCCCCTTGCCCTAACGATTTTCCTTCTAAGCCTCG
Rana_muscosa_1           TCCTTTACTAATTAACCCCCTCGCCCTAACAATCTTCCTATTAAGCCTCG
Rana_muscosa_2           TCCTTTACTAATTAATCCCCTCGCCCTAACAATCTTCCTATTAAGTCTCG
Rana_macronemis          TCCCTTACTAATTAATCCCCTTGCCCTAACGATTTTCCTATTAAGCCTTG
Rana_chaochiaoensis      TCCTTTACTAATGAACCCCCCCGCTCTAACCATTTTCCTATTAAGCCTTG
Rana_japonicus           TCCTTTACTAATGAATCCCCCCGCGCTAACGATCTTCCTACTAAGCCTTG
Rana_amurensis           TCCCTTACTAATTAATCCCCTCGCTCTGACAATTTTTTTACTAAGCCTTG
Rana_chensinensis_1      TCCTTTACTAATGAACCCCCTCGCCCTTACGATCCTTTTATTAAGCCTCG
Rana_chensinensis_2      TCCTTTACTAATGAACCCCCTCGCCCTTACGATCCTTTTATTAAGCCTCG
Rana_temporaria          TCCTTTACTAATTAATCCCCTCGCCCTTACAATTCTCCTATCAAGCCTCG
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701-750
Qualifiers1              ..................................................
Qualifiers2              ..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..
Xenopus_laevis           CTTCGGAACAATTTTTAGCTGTATCAAGTAGCCACTGACTTTTAGCCTGA
Bufo_andrewsi            CCTTAGGCACCATCTTAACACTATCAAGTTACCATTGAATTTTAGCCTGA
Rana_limnocharis         TCCTTGGGACAACAATGACAGTTGCTAGCAACCACTGACTATTAGCCTGA
Polypedates_leucomystax CAATTGGCACAACAACTACCCTGTTAAGCCACCACTGACTGCTCGCTTGA
Amolops_hongkongensis    CTGTAGGAACCGCCACCACCCTTTCAAGCTACCACTGACTCCTAGCCTGA
Rana_tientaiensis        CTCTTGGTACTACCGCTACCCTATCAAGCTACCACTGACTCCTGGCCTGA
Rana_ridibunda           CCATCGGAACTACCATTACCCTCTCGAGTTATCACTGACTCCTTGCCTGA
Rana_nigromaculata       CCATTGGAACTACCATTACCCTCTCAAGCTACCACTGGCTCTTAGCCTGA
Rana_plancyi             CCATTGGAACTACCATCACCCTCTCAAGCTACCACTGGCTCTTAGCCTGA
Rana_catesbeiana         CTATCGGGACTACTATTACCCTATCTAGCTTCCACTGACTCCTCGCCTGA
Rana_sylvatica           CTATCGGAACTACTATTACCCTGTCAAGCTTCCACTGACTCCTCGCCTGA
Rana_warschewitschii     CCATCGGCACCACAATTACTTTCTCAAGTTTCCATTGGCTACTCGCCTGA
Rana_areolata            CTATCGGCACTACAGTCACCCTATCCAGCTTTCATTGACTCTTAGCCTGA
Rana_pipiens             CTATTGGCACCACAGTCACCCTATCAAGCTTTCATTGACTCCTAGCCTGA
Rana_pretiosa            CTATCGGAACGACCATTACACTATCCAGTTTCCACTGACTTCTAGCCTGA
Rana_boylii              CTATCGGAACCACTATCACACTATCCAGCTTCCACTGATTATTAGCCTGA
Rana_aurora              CCATCGGAACCACTATCACACTATCTAGCTTCCATTGACTTCTAGCCTGA
Rana_cascadae            CCATCGGAACCACTATTACACTATCTAGCTTCCACTGATTACTAGCCTGA
Rana_muscosa_1           CCATCGGAACCACTATTACTCTATCCAGTTTCCACTGATTACTAGCCTGA
Rana_muscosa_2           CCATCGGAACCACTATTACGCTATCCAGTTTCCACTGATTATTAGCCTGA
Rana_macronemis          CCATCGGAACTACTATTACCCTCTCCAGCTTCCATTGACTACTAGCCTGA
Rana_chaochiaoensis      CTGTCGGAACCACTATTACCCTCTCCAGCTTCCATTGACTTCTGGCCTGA
Rana_japonicus           CTATCGGAACCACTCTTACCCTCTCCAGCTTCCATTGACTCCTAGCCTGA
Rana_amurensis           CCATTGGAACTACCATCACCCTCTCCAGCTTTCACTGACTTCTAGCCTGA
Rana_chensinensis_1      CTATCGGAACCACTATTACCCTTTCCAGTTTCCACTGACTCCTAGCCTGA
Rana_chensinensis_2      CTATCGGGACCACTATCACCCTCTCCAGCTTCCATTGACTCCTAGCCTGA
Rana_temporaria          CCGTCGGAACTACTATTACTCTCTCCAGCTACCATTGAATACTAGCCTGA
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751-800
Qualifiers1              ..................................................
Qualifiers2              1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1.
Xenopus_laevis           ATAGGCTTAGAAATTAACACATTAGCAATCATTCCACTTATAACCCAACA
Bufo_andrewsi            ATCGGACTTGAAATTAATACTCTAGCAATTATCCCCCTGATAACAAAAAC
Rana_limnocharis         ATCGGCCTAGAAATCAACACCTTGGCCATTATCCCATTCATAACTATTAT
Polypedates_leucomystax ATCGGCCTAGAAATTAATACACTTGCTATTATCCCCATTATTACCAAAAT
Amolops_hongkongensis    ATTGGATTAGAAATTAGCACTCTTGCTATTATTCCAATTATAACAAAAAC
Rana_tientaiensis        ATCGGCCTCGAAATTAATACACTAGCTATTATTCCCCTAATAACTAAAAC
Rana_ridibunda           GTGGGCCTAGAAATCAATACCCTCGCTATTATTCCCCTCATAACAAAAAC
Rana_nigromaculata       GTTGGCCTTGAAATTAACACTCTTGCCATTATTCCCCTCATAACAAAAAC
Rana_plancyi             GTTGGCCTTGAAATTAACACTCTTGCCATTATTCCGCTCATAACAAAAAC
Rana_catesbeiana         ATCGGCCTAGAAATTAATACTCTTGCTATTATTCCCCTTATAACTAAAAC
Rana_sylvatica           GTCGGCTTAGAGATTAATACTCTTGCTATTATCCCTCTTATAACAAAAAA
Rana_warschewitschii     ATCGGCCTAGAAATTAATACTATAGCTATTATTCCTCTTATAACTAAAAC
Rana_areolata            GTAGGCCTAGAAATTAATACCCTCGCCATTATCCCGATGATAACAAAAAC
Rana_pipiens             GTCGGCTTAGAAATTAATACCCTCGCCATCATTCCTATGATAACTAAAAC
Rana_pretiosa            ATTGGCTTAGAAATCAATACTCTTGCCATCATTCCCTTAATAACTAAGAC
Rana_boylii              GTGGGCCTAGAAATTAATACTCTTGCCATCATCCCCCTGATAACTAAAAC
Rana_aurora              ATCGGCCTAGAAATTAATACTCTTGCCATTATCCCATTAATAACTAAAAT
Rana_cascadae            ATCGGCCTAGAAATTAATACTCTTGCTATTATCCCATTAATAACTAAAAT
Rana_muscosa_1           ATCGGCCTAGAAATCAACACTCTTGCCATCATCCCCTTAATAACTAAGAT
Rana_muscosa_2           ATCGGCCTAGAAATCAACACTCTTGCTGTCATCCCCTTAATAACTAAGAT
Rana_macronemis          ATCGGCCTGGAGATTAACACCCTTGCTATTATCCCCCTAATAACAAAAAC
Rana_chaochiaoensis      ATTGGCTTAGAAATCAACACCCTTGCTATTATCCCCCTAATGACTAAAAC
Rana_japonicus           ATTGGTCTAGAAATTAACACCCTTGCTATCATCCCCCTAATAACTAAAAC
Rana_amurensis           GTTGGCTTAGAAATTAATACCCTAGCTATTATTCCTTTAATAACAAAAAC
Rana_chensinensis_1      GTTGGGCTAGAAATTAATACCCTCGCTATTATTCCCCTAATAACGAAATA
Rana_chensinensis_2      GTTGGGCTAGAAATTAATACCCTCGCTATTATTCCCCTGATAACGAAATA
Rana_temporaria          ATTGGTCTAGAAATTAATACCCTCGCTATTATTCCTCTAATAACAAAAAC
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801-850
Qualifiers1              ..................................................
Qualifiers2              .1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1
Xenopus_laevis           TAAACACCCACGAGCCATTGAAGCCTCAACAAAATATTTTTTAACACAAG
Bufo_andrewsi            CCCTCACCCCCGAGCCATTGAAGCTGCAACAAAATACTTTCTTACGCAAG
Rana_limnocharis         TCCTCACCCACGAGCCATCGAAGCTGCCACAAAATATTTCCTCACCCAAG
Polypedates_leucomystax  TCCTCATCCACGGGCTATTGAAGCCGCCACAAAATATTTCTTAACACAAG
Amolops_hongkongensis    ACCGCATCCACGAGCCATTGAAGCCGCTACAAAATATTTTCTTACCCAGG
Rana_tientaiensis        CCCCCATCCTCGAGCCATTGAAGCTGCTACAAAGTATTTCCTCACCCAAG
Rana_ridibunda           TCCCCACCCACGAGCCATCGAAGCTGCTACAAAATATTTCCTCACACAAG
Rana_nigromaculata       CCCCCACCCACGAGCCATTGAAGCTGCCACAAAATATTTTCTTACACAAG
Rana_plancyi             CCCCCACCCACGAGCCATTGAAGCTGCCACAAAATATTTTCTTACACAAG
Rana_catesbeiana         GCCTCACCCACGAGCTATTGAAGCCGCCACAAAATATTTTCTAACCCAAG
Rana_sylvatica           CCCTCATCCACGAGCCATTGAAGCCGCCACAAAATACTTCCTAACCCAAG
Rana_warschewitschii     CCACCACCCACGAGCTATTGAAGCCGCCACAAAGTATTTTTTAACCCAAG
Rana_areolata            CCCTCACCCACGAGCCATCGAAGCAGCTACAAAATACTTCTTAACCCAGG
Rana_pipiens             CCCACATCCACGAGCTATTGAAGCAGCTACAAAATATTTCTTAACCCAAG
Rana_pretiosa            ACCTCACCCACGAGCCATTGAAGCCGCCACAAAATATTTCCTGACCCAAG
Rana_boylii              ACCTCACCCACGAGCTATTGAAGCTGCCACAAAATATTTTCTCACTCAAG
Rana_aurora              GCCCCACCCACGAGCCATTGAAGCTGCCACAAAATATTTCCTAACCCAAG
Rana_cascadae            ACCCCACCCACGAGCTATTGAAGCTGCTACAAAATATTTCCTGACTCAAG
Rana_muscosa_1           ACCTCACCCACGAGCCATTGAAGCTGCTACAAAATATTTCCTGACCCAAG
Rana_muscosa_2           TCCTCACCCACGAGCCATTGAAGCTGCTACAAAATATTTCCTGACCCAAG
Rana_macronemis          CCCTCACCCACGAGCCATTGAAGCTGCTACAAAATATTTTTTAACCCAAG
Rana_chaochiaoensis      ACCCCACCCACGAGCCATTGAAGCTGCTACAAAATATTTCCTGACTCAAG
Rana_japonicus           ACCCCACCCACGAGCCATTGAAGCCGCTACAAAATATTTCCTGACCCAAG
Rana_amurensis           GCCACACCCACGTGCCATTGAAGCCGCCACAAAGTATTTCCTCACCCAAG
Rana_chensinensis_1      CCCCCACCCACGGGCCATTGAAGCCGCCACAAAATATTTCTTAACCCAAG
Rana_chensinensis_2      CCCCCACCCACGGGCCATTGAAGCCGCCACAAAATATTTCTTAACCCAAG
Rana_temporaria          GCCTCACCCACGGGCCATTGAAGCTGCCACAAAATATTTTTTAACCCAAG
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851-900
Qualifiers1             ..................................................
Qualifiers2             ..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..
Xenopus_laevis          CAGCAGCATCTGCACTTCTCCTCTTCTCTAGTTTAAATAATGCCTGACTC
Bufo_andrewsi           CCGCAGCGTCTGCCCTCATTTTATTCTCTAGCATCCTCAATGCATTCACC
Rana_limnocharis        CCTCCGCATCTGCACTAATCTTATTCTCTGCATCAATAAGCGCCTGAAAA
Polypedates_leucomystax CAACGGCCTCTATTATTGTCCTATTTTCAGCATTAATAAACGCATGAAGC
Amolops_hongkongensis   CCACCGCTTCCGCACTAATTTTATTCTCTAGCCTTATTAGTGCATGACAA
Rana_tientaiensis       CCGCAGCCTCCGCCCTACTTCTATTCTCCAGCCTCATTAATGCTTGGTAT
Rana_ridibunda          CTGCTGCTTCCGCCTTAGTTTTATTTTCTAGCCTCATTAATGCATGACAA
Rana_nigromaculata      CCACAGCTTCCGCCCTGCTTCTATTTTCAAGCCTTATTAACGCATGAATG
Rana_plancyi            CCACAGCTTCCGCCCTGCTTCTATTTTCAAGCCTTATTAACGCATGAATA
Rana_catesbeiana        CCGCAGCCTCCGCCTTAGTATTATTTTCAAGCCTCATTAGTGCATGACAA
Rana_sylvatica          CCGCAGCCTCCGCTTTAGTCTTGTTCTCAAGTCTTATTAGTGCATGACAA
Rana_warschewitschii    CAACAGCTTCTGCCCTACTCTTATTTTCAAGCCTTATTAATGCTTGACAA
Rana_areolata           CCACAGCTTCCGCTCTAATCTTATTCTCAGCCCTAATCAACGCATGACAA
Rana_pipiens            CCACAGCTTCCGCTCTAATTTTATTTTCAGCCCTTATTAACGCATGACAA
Rana_pretiosa           CCGCAGCTTCCGCCTTAATCTTATTTTCAAGCCTCATTAATGCATGACAA
Rana_boylii             CTGCAGCCTCCGCCCTAATCTTATTTTCAGCCCTCATTAATGCATGACAA
Rana_aurora             CCGCAGCTTCCGCCTTAATCTTATTCTCAAGCCTCATCAATGCATGACAA
Rana_cascadae           CCGCAGCTTCCGCCTTAATCTTATTTTCAAGTCTTATTAATGCGTGACAA
Rana_muscosa_1          CCGCAGCTTCCGCCTTAATCCTATTTTCAAGCCTCATTAACGCATGACAA
Rana_muscosa_2          CCGCAGCTTCCGCCTTAATCCTATTTTCAAGCCTCATTAATGCCTGACAA
Rana_macronemis         CTGCAGCCTCTGCACTGATCTTATTTTCAAGTCTTATTAACGCGTGACAA
Rana_chaochiaoensis     CAGCAGCTTCTGCCCTAATCCTATTCTCAAGTGTCATCAACGCATGACTA
Rana_japonicus          CAGCAGCTTCCGCCCTAATCTTATTCTCAACCATTATAAACGCCTGACTG
Rana_amurensis          CCGCAGCCTCCGCCTTAATTTTATTCTCGAGTCTTATTAACGCATGACAA
Rana_chensinensis_1     CCGCGGCCTCCGCCCTGATTCTATTTTCAAGTCTCATCAACGCCTGACAA
Rana_chensinensis_2     CCGCGGCCTCCGCCCTAATTCTATTTTCAAGTCTCATCAACGCCTGACAA
Rana_temporaria         CCGCAGCCTCCGCCCTAATTCTATTTTCATGTCTCATTAACGCATGACAA
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901-950
Qualifiers1             ..................................................
Qualifiers2             1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1.
Xenopus_laevis          ACCGGAGAATGGTCAATTTTAGATTTAACAAACCCTCTGTCATGCGCAAC
Bufo_andrewsi           ATAGGAGAATGGGCTATCAATATACCCTCTCACCCCGTCCCGGCCACCCT
Rana_limnocharis        TCGGGAGAGTGGTCTATTGACTCACTCGCATATCCATTCACAATTTCT--
Polypedates_leucomystax ACAGGACAATGAACCATCACCTCTGCCCTAGACCATACAACAATTATC--
Amolops_hongkongensis   ACAGGAGAGTGATATATCTCCTCCATCACCGACCTTCCAATAAACGCT--
Rana_tientaiensis       ACTGGAGAGTGAGCCATTAACTCCCTCACAGACCTACCAGCCAATGCT--
Rana_ridibunda          ACCGGAGAGTGAAACATTGACTCTATTTCTGATCTACCAATGAATGCT--
Rana_nigromaculata      ACAGGAGAGTGAAGCATTAACTCACTTACTGATTTACCAATAAATGCT--
Rana_plancyi            ACAGGAGAATGGAGCATTAACTCACTTACTGATTTACCAATAAATGCC--
Rana_catesbeiana        ACTGGAGAATGAAGTATCAACTCTCTTATAGATTTACCAATAAACATC--
Rana_sylvatica          ACTGGAGAATGGAATCTCAACTCCCTCACAGACTTACCAGTAAATATT--
Rana_warschewitschii    ACAGGAGAGTGGGCTATTAACTCACTACTTGATCTACCAATAAATGCC--
Rana_areolata           ATAGGCGAATGAGGCATTAATTCTCTCACTAATTTACCCGCACTCACC--
Rana_pipiens            ACAGGCGAATGAGGCATTAATACCCTTACGAACCTTCCTATACTCACT--
Rana_pretiosa           ACCGGAGAATGAAGTATTAATTCCCTCACAGATTTACCCACAAATGCT--
Rana_boylii             ACTGGAGAATGAAATATTAATTCCCTCACAGATCTGCCTATAAATGCT--
Rana_aurora             ACAGGAGAATGAAATATTAGCTCTCTCACAGACCTACCTATAAATGCC--
Rana_cascadae           ACGGGAGAATGAAATATTAACTCCCTCACAGACCTACCTATAAATGCT--
Rana_muscosa_1          ACAGGAGAATGAAATATTGATTCCCTCACAGACCTACCTATAAATGCC--
Rana_muscosa_2          ACAGGAGAGTGAAATATTGATTCCCTTACAGACCTACCTATAAATGCC--
Rana_macronemis         ACTGGAGAATGAAATATTAATTCACTCTCGGACTTACCCATAAATGCC--
Rana_chaochiaoensis     ACCGGAGAATGAAGTGTTAACTCCCTGACAGACCTACCCATAAATGCT--
Rana_japonicus          ACTGGGGAATGAAATATTAACTCCCTTACAGGCCTGCCCATAAATGCC--
Rana_amurensis          ACCGGAGAATGAAACTCTAACTCCCTCTCAGACCTACCCATAATTACT--
Rana_chensinensis_1     ACTGGAGAATGAAATATTAATTCTCTCTCAGATTTACCAGTAACTACC--
Rana_chensinensis_2     ACTGGAGAATGAAACATTAATTCTCTTTCAGATTTACCAGTAACTACC--
Rana_temporaria         ACTGGAGAATGAAATTTTATTTCTCTCACAGATTTACCTATGGGTACC--
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951-1000
Qualifiers1              ..................................................
Qualifiers2              .1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1
Xenopus_laevis           TATAACCATTGCAATCTGTATAAAACTAGGACTTGCACCTTTCCACTTCT
Bufo_andrewsi            CTTATCTATTGCCCTTGCAATAAAACTAGGGGTCGCCCCGTTCCACTTCT
Rana_limnocharis         -CTTTCACTAGCTCTCATGATGAAACTAGGTCTAGCCCCCCTACACTTCT
Polypedates_leucomystax -TTAACTTTAGCTCTGATAATAAAACTGGGATTGGCTCCACTACACTTCT
Amolops_hongkongensis   -TTATCTATTGCCCTTATAATAAAGATTGGCCTAGCCCCACTGCACTTCT
Rana_tientaiensis        -CTCTCCATTGCCCTGTTTATAAAGCTCGGACTAGCACCCCTACACTTTT
Rana_ridibunda           -CTCTCCATCGCCCTCATGATAAAACTTGGACTTGCCCCCCTACACTTCT
Rana_nigromaculata       -CTCTCCATTGCCCTGATAATAAAACTAGGCCTTGCCCCCCTTCACTTCT
Rana_plancyi             -CTCTCCATTGCCCTGATAATAAAACTAGGCCTTGCCCCCCTTCACTTCT
Rana_catesbeiana         -CTCTCTATCGCCCTGATAATAAAACTCGGTTTGGCCCCACTACATTTCT
Rana_sylvatica           -TTGTCTATCGCCCTCATAATAAAGCTCGGCCTAGCCCCTTTACACTTCT
Rana_warschewitschii     -CTTTCTATCGCTATCATAATAAAAATCGGCTTAGCTCCCTTACACTTTT
Rana_areolata            -CTTTCTCTTGCTATTATAATAAAACTAGGCTTGGCCCCCCTTCATTTCT
Rana_pipiens             -CTCTCTCTTGCTATCATAATAAAACTTGGCCTAGCCCCTCTCCACTTCT
Rana_pretiosa            -CTCTCCATCGCCCTTATAATAAAACTTGGCTTAGCCCCCCTTCACTTTT
Rana_boylii              -CTCTCCATCGCCCTTATAATAAAACTCGGCCTAGCCCCATTACACTTTT
Rana_aurora              -CTCTCCATTGCCCTCATAATAAAACTAGGCTTAGCCCCACTGCACTTTT
Rana_cascadae            -CTCTCCATTGCCCTCATAATAAAACTTGGTCTAGCCCCGCTACACTTTT
Rana_muscosa_1           -CTCTCCATCGCCCTCATAATAAAACTCGGTCTAGCCCCACTACACTTTT
Rana_muscosa_2           -CTCTCCGTTGCTCTCATAATAAAACTCGGTCTAGCCCCGCTACACTTTT
Rana_macronemis          -CTCTCGATCGCCATTATGATGAAACTCGGCCTAGCCCCCCTCCACTTTT
Rana_chaochiaoensis      -TTCTCCATCGCTATTATAATAAAGTTAGGTTTAGCCCCCCTACACTTTT
Rana_japonicus           -TTCTCCATCGCTATCATAATAAAGCTAGGCCTAGCCCCACTCCACTTTT
Rana_amurensis           -TTCTCTATCGCTATTATAATAAAACTGGGCCTAGCCCCCTTACATTTTT
Rana_chensinensis_1      -TTCTCTATTGCTATCATAATAAAATTAGGCCTAGCCCCCCTCCACTTTT
Rana_chensinensis_2      -TTCTCTATCGCTATCATAATAAAGTTAGGCCTGGCCCCCCTCCACTTTT
Rana_temporaria          -CTTTCAATTGCTCTTATAATAAAACTTGGCCTAGCCCCTCTACACTTCT
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1001-1050
Qualifiers1              ..................................................
Qualifiers2              ..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..
Xenopus_laevis           GATTACCTGAAGTCCTTCAAGGACTTAGTTTAACAACAGGATTAATCCTA
Bufo_andrewsi            GATTACCCGAAGTTCTCCAAGGGTCAACACTCCAAACAGGCTTCATCCTA
Rana_limnocharis         GACTTCCAGAAGTTCTCCAAGGAATCCCACTATCTTCTGGGCTGATTCTT
Polypedates_leucomystax GACTCCCCGAAGTACTCCAAGGCACCCCATTATTTACCGGACTAATTATC
Amolops_hongkongensis    GAATACCAGAAGTTTTACAAGGCATCCCCCTATCCACAGGGCTTATCCTA
Rana_tientaiensis        GAATACCAGAAGTTCTCCAAGGTATCCCCCTCTCTACGGGCCTCATCCTG
Rana_ridibunda           GAATGCCCGAAGTCTTACAAGGCATCTCACTATCTACAGGACTAATTTTA
Rana_nigromaculata       GAATGCCAGAAGTCCTACAAGGTATTTCACTCCCTACAGGACTTATTCTG
Rana_plancyi             GAATGCCAGAAGTCCTACAAGGTATTTCACTCCCTACAGGACTTATTCTG
Rana_catesbeiana         GAATGCCTGAAGTTCTTCAAGGAATTTCCCTCCCCACGGGACTCATCTTA
Rana_sylvatica           GAATGCCTGAAGTTCTCCAAGGAATTTCTCTCCCCACAGGACTTATTTTA
Rana_warschewitschii     GAATACCAGAGGTTATTCAAGGGATTTCTCTCCCCACGGGCCTTATTTTA
Rana_areolata            GGATACCTGAAGTCCTTCAAGGAATTTCCCTTCAAACAGGACTTATTTTA
Rana_pipiens             GAATACCTGAAGTTCTCCAAGGTATTTCTCTTCCAACAGGATTAATTTTA
Rana_pretiosa            GAATACCTGAAGTTCTTCAAGGAATTTCACTCCCCACAGGACTGATCCTA
Rana_boylii              GAATGCCTGAAGTACTTCAAGGAATTTCACTCCCTACAGGATTGATCCTC
Rana_aurora              GAATACCAGAAGTTCTTCAAGGAATTTCACTCCCTACAGGATTAATCCTA
Rana_cascadae            GAATACCAGAAGTACTTCAAGGGATTTCACTCCCCACAGGGTTAATCCTG
Rana_muscosa_1           GAATACCAGAAGTTCTTCAAGGGATTTCACTCCCTACAGGGTTAATCCTG
Rana_muscosa_2           GAATACCAGAAGTTCTTCAAGGGATTTCACTCCCTACAGGGTTAATCCTG
Rana_macronemis          GAATGCCAGAAGTCCTTCAAGGAATTTCACTCCCAACAGGGTTGATCCTA
Rana_chaochiaoensis      GAATGCCTGAAGTCCTTCAAGGGATTTCACTTCAAACAGGACTAATCTTA
Rana_japonicus           GGATGCCCGAAGTCCTTCAAGGGATCTCACTTTCAACAGGCCTAATTCTA
Rana_amurensis           GAATACCTGAAGTCCTTCAAGGAATCTCACTTCCAACAGGCATAATTTTA
Rana_chensinensis_1      GAATACCTGAAGTCCTCCAAGGAATTTCACTCCCAACCGGACTAATTTTA
Rana_chensinensis_2      GAATACCTGAAGTCCTCCAAGGAATTTCACTCCCAACCGGACTAATCTTA
Rana_temporaria          GAATACCTGAAGTCCTTCAAGGAATTCCACTCTCGACAGGACTAATCCTG
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1051-1100

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Qualifiers1              ..................................................
Qualifiers2              1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1.
Xenopus_laevis           TCCACATGACAAAAACTCGCCCCAATAGCTATCTTATATCAAATCGCTCC
Bufo_andrewsi            TCCACATGACAAAAATTAGCCCCCATGGCACTTCTTATCCAACTTTCCCA
Rana_limnocharis         TCAACATGACAAAAAATTGCACCATTTTCCCTTCTTATTCAAATTCACCA
Polypedates_leucomystax  TCAACGTGACAAAAAATCGCCCCAATAACATTATTACTTCAACTTACACA
Amolops_hongkongensis    TCAACCTGGCAAAAAATCGCCCCCATAGCTCTTCTCCTACAAATATCACA
Rana_tientaiensis        TCTACCTGACAAAAAATCGCTCCAATAATCCTCCTCCTTCAAATCTCTCA
Rana_ridibunda           TCAACCTGACAAAAAATTGCCCCAATAACACTTCTTCTCCAAACTTCTCA
Rana_nigromaculata       TCTACTTGACAAAAAATTGCCCCAATAGTCCTTCTTTTACAAACCTCTCA
Rana_plancyi             TCTACTTGACAAAAAATTGCCCCAATAGTCCTTCTTTTACAAACCTCTCA
Rana_catesbeiana         TCGACCTGACAAAAAATTGCCCCTATAGCCCTTCTCCTTCAAACTTCTCA
Rana_sylvatica           TCAACTTGACAAAAAATTGCCCCGATAGCTCTTCTACTTCAGACCTCTCA
Rana_warschewitschii     TCAACCTGACAAAAAATTGCCCCAATAACACTACTTATTCAAACCTCCCA
Rana_areolata            TCCACTTGACAAAAAATCGCCCCTATAGCACTCCTTATTCAAACCTCCCA
Rana_pipiens             TCCACTTGACAAAAAATCGCCCCCATGGCGCTTCTCATTCAAACCTCCCA
Rana_pretiosa            TCAACCTGGCAAAAAATTGCCCCAATAACACTGCTACTTCAAACTTCCCA
Rana_boylii              TCAACCTGACAAAAAATTGCCCCGATAACACTGCTCCTCCAAACCTCTCA
Rana_aurora              TCAACCTGACAGAAGATCGCCCCAATAACACTGCTTCTCCAAACTTCACA
Rana_cascadae            TCAACCTGACAGAAAATCGCCCCAATAACACTGCTTCTCCAAACTTCTCA
Rana_muscosa_1           TCAACCTGACAGAAGATCGCCCCAATAACACTGCTTCTCCAAACTTCACA
Rana_muscosa_2           TCAACCTGACAGAAGATCGCCCCAATAACACTGCTTCTCCAAACTTCACA
Rana_macronemis          TCTACCTGACAAAAAATTGCCCCTATAACGCTCCTCCTACAAACCTCCCA
Rana_chaochiaoensis      TCCACCTGACAAAAAATTGCCCCAATGATACTGCTTCTTCAAACCTCTTA
Rana_japonicus           TCCACCTGACAAAAAATCGCCCCTATAACACTGCTTCTTCAAACCTCCCA
Rana_amurensis           TCTACCTGACAAAAAATTGCCCCAATAATACTCCTTTTACAAACCTCCTA
Rana_chensinensis_1      TCCACCTGACAAAAAATTGCCCCCATAACATTACTTCTAAACGCCTCTTC
Rana_chensinensis_2      TCCACCTGACAAAAAATTGCCCCCTTAACATTACTCCTAAACGCCTCTTC
Rana_temporaria          TCTACCTGACAAAAAATTGCCCCTATATCACTACTTCTTCAAATCTCCCA
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1101-1150
Qualifiers1              ..................................................
Qualifiers2              .1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1
Xenopus_laevis           AATATTAAATACACCACTTCTTCTCACTCTAGGTCTCACATCAACACTTA
Bufo_andrewsi            GTCAGTAAACCTCACCCTCATACTAACCCTGGGGCTCCTGTCTACTATTG
Rana_limnocharis         CCTTATTGACCCCAATATTCTTATTTTTATAGGCCTAACTTCTGCCTTCG
Polypedates_leucomystax  CCATATTAATATTTATGCCGCCACCTTAATTGGCTTACTGTCAATTTTCA
Amolops_hongkongensis    TTTTATTAATCTTACCCTAATTACCATTTTAGGCTTCACCTCAATTTTAA
Rana_tientaiensis        TCTTATCAACCTTAACCTAGCAATCACCTTAGGCTTAACCTCAATCTTTA
Rana_ridibunda           TCTAATTAATTTAGACCTAGCAATTATTTTAGGCCTCACCTCTATTCTTG
Rana_nigromaculata       CCTCATCAACCTAAACTTAACAATTATCCTAGGCCTCACCTCCATTTTAG
Rana_plancyi             CCTCATTAACCTAAACTTAACAATCATCCTAGGCCTCACCTCCATTTTAG
Rana_catesbeiana         CCTTATTAACCTCAACCTAACTATTGCCCTAGGTCTTACATCTATTATAG
Rana_sylvatica           CCTGATTAATCTTAATCTAACCATCGCCCTGGGTCTCACCTCTATTTTAA
Rana_warschewitschii     CCTCATTAACCTTAACTTAACTGTCATCTTAGGCATTATTTCGATCCTAG
Rana_areolata            CCTTATTAACCTTAATTTAACCATCGCCTTAGGTGTCACTTCAATCTTAG
Rana_pipiens             CCTTATTAACCTTAACCTAACTATTGCCCTAGGCCTCGCCTCAATTTTAA
Rana_pretiosa            CCTCCTCAATTTAAACTTAACAATTGCCCTAGGTCTTACCTCTATCCTAA
Rana_boylii              CCTCCTCAACCTGAACTTAACTATCGCTCTAGGTCTCACCTCCATCCTGA
Rana_aurora              CCTCCTCAACCTAAACCTAACAATTGCCCTAGGTTTTACCTCTATTTTAA
Rana_cascadae            CCTCCTCAACCTTAACCTAACAATTGCTCTAGGCTTTACCTCTATTCTAA
Rana_muscosa_1           TCTTCTTAACCTAAACTTAACAATCGCCCTAGGCTTTACCTCTATTCTAA
Rana_muscosa_2           TCTCCTTAACCTAAACTTAACAATTGCCCTAGGCTTTACCTCTATTCTAA
Rana_macronemis          CCTCATCAACCTCAACCTAACAATTGCTCTAGGCCTCACATCTATTCTGA
Rana_chaochiaoensis      CCTCCTTAACCTCAACTTAGCGGTTACCCTAGGCCTCACATCCATTTTAA
Rana_japonicus           CCTCCTTAACCTTAACCTAACAATTGCCCTAGGCCTTACCTCCATTTTAA
Rana_amurensis           CCTCCTCAATCTTAACCTAACGATCACCCTAGGCCTCACATCCATCCTAA
Rana_chensinensis_1      CTTGCTCAACCTCAACCTAACGATCGCCCTAGGCCTCACATCTATCTTAA
Rana_chensinensis_2      CTTGCTCAACCTCAACTTAACGATCGCCCTAGGCCTTACATCTATCTTAA
Rana_temporaria          CCTCGTCAACCTTGACCTAACAATTGCCTTAGGCCTTACATCTATTTTAA
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1151-1200
Qualifiers1              ..................................................
Qualifiers2              ..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..
Xenopus_laevis           TCGGCGGATGAGGGGGACTCAATCAAACTCAACTACGAAAAATCTTAGCT
Bufo_andrewsi            TGGGGGGGTGGGGCGGCATTAACCAAACTCAAATCCGAAAAGTTCTTGCC
Rana_limnocharis         TCGGGGGCTGGGGGGGTATTAATCAAACCCAATTACGCAAAATCATAGCT
Polypedates_leucomystax  TTGGCGGCTGGGGCGGAATTAATCAAACACAAATGCGAAAAATTCTAGCA
Amolops_hongkongensis    TTGCTGGTTGAGGTGGTATCGCCCAAACCCAACTACGAAAAATTATTGCC
Rana_tientaiensis        TTGGAGGCTGAGGGGGAATTGGCCAAACTCAACTACGAAAAATCATAGCC
Rana_ridibunda           TCGGGGGGTGAGGGGGGATTGGTCAGACTCAATTACGCAAAATTATAGCA
Rana_nigromaculata       TTGGGGGTTGAGGTGGAATTGGCCAAACTCAACTACGTAAGATTATAGCC
Rana_plancyi             TTGGGGGTTGAGGTGGAATTGGCCAAACTCAACTACGTAAGATTATAGCC
Rana_catesbeiana         TTGGAGGCTGAGGCGGAATTGGTCAAACTCAACTTCGAAAGATTATGGCC
Rana_sylvatica           TCGGGGGCTGAGGGGGCATCGGCCAAACTCAACTCCGAAAGATTATGGCC
Rana_warschewitschii     TCGGAGGTTGAGGGGGCATCGGCCAAACACAGCTTCGAAAAATTATAGCC
Rana_areolata            TCGGGGGCTGAGGGGGTATTAGCCAAACCCAACTTCGAAAAATTATAGCC
Rana_pipiens             TCGGGGGCTGAGGAGGTATTAGCCAAACCCAACTCCGAAAAATTATAGCC
Rana_pretiosa            TTGGAGGCTGAGGAGGCATTGGTCAAACCCAGCTTCGAAAAATTATAGCT
Rana_boylii              TTGGAGGCTGAGGAGGTATTGGCCAAACCCAGCTTCGAAAGATTATAGCT
Rana_aurora              TTGGGGGGTGAGGGGGTATCGGCCAAACTCAGCTTCGAAAAATTATAGCT
Rana_cascadae            TCGGAGGGTGAGGGGGTATTGGCCAAACCCAGCTTCGAAAAATTATAGCT
Rana_muscosa_1           TCGGAGGATGAGGCGGTATCGGCCAAACACAACTTCGAAAAATTATAGCT
Rana_muscosa_2           TTGGAGGGTGAGGCGGTATTGGCCAAACACAGCTTCGAAAAATTATAGCT
Rana_macronemis          TCGGCGGCTGAGGCGGCATTGGCCAAACTCAACTCCGAAAAATTATAGCC
Rana_chaochiaoensis      TTGGAGGCTGAGGCGGTATTGGTCAAAACCAAATTCGAAAAATCATAGCT
Rana_japonicus           TCGGAGGCTGAGGCGGGATTGGGCAAACCCAAATTCGAAAAATCATAGCC
Rana_amurensis           TTGGAGGCTGAGGAGGTATCGGCCAAACCCAAATCCGAAAAATCATGGCC
Rana_chensinensis_1      TTGGGGGCTGAGGCGGCATCGGCCAGACCCAAATTCGGAAAATCATAGCT
Rana_chensinensis_2      TTGGAGGCTGAGGAGGCATCGGCCAAACCCAAATTCGGAAAATCATAGCT
Rana_temporaria          TCGGGGGCTGGGGTGGCATTGGTCAAACTCAACTTCGAAAAATTATGGCC
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1201-1250
Qualifiers1              ..................................................
Qualifiers2              1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1.
Xenopus_laevis           TTCTCATCTATTGCCCATCTTGGTTGAATAATTTCTATTCTCCCATTCTC
Bufo_andrewsi            TTCTCCTCTGTGGCTCACTTAGGTTGGATAGTAGCAATTCTAAAAATCTC
Rana_limnocharis         TTCTCCTCAATCGCCCATCTCGGCTGAATAGTAACAGTTATAAAGTTTAA
Polypedates_leucomystax  TTTTCATCAATTGGCCACCTCGGCTGAATAATATTAGTTTTAAAATTTGA
Amolops_hongkongensis    TTTTCCTCAATTGCCCACTTTGGATGGATAATTATTATCTTAAAACTTAA
Rana_tientaiensis        TTCTCTTCAATCGGCCATCTAGGATGAATAATTATTATTCTAAAATTTAA
Rana_ridibunda           TTTTCCTCAATTGGCCACCTGGGGTGAATAATTATTGTTCTAAAATTTAA
Rana_nigromaculata       TTCTCCTCAATTGGTCACCTCGGCTGAATAATTGTCGTACTTAAATTTGC
Rana_plancyi             TTCTCCTCAATTGGTCACCTAGGCTGAATAATTGTTGTACTTAAATTTGC
Rana_catesbeiana         TTTTCTTCTATTGGTCACCTAGGATGAATTATTGTCATTTTAAAATTTGA
Rana_sylvatica           TTTTCCTCTATCGGCCACCTCGGTTGAATTATTATTGTTTTAAAATTTGA
Rana_warschewitschii     TTTTCATCTATTGGTCACTTTGGCTGAATTATTCTTATTTTAAAATTTAG
Rana_areolata            TTCTCATCAATCGGTCACCTAGGATGAATGCTAGTTATTCTAAAATTTGA
Rana_pipiens             TTTTCATCTATCGGACACCTGGGCTGAATTATTATTGTCTTAAAATTTGA
Rana_pretiosa            TTTTCCTCTATCGGCCACCTCGGATGAATTATTGTTATTTTAAAATTTAG
Rana_boylii              TTCTCCTCCATCGGCCACCTCGGATGAATTATTGTTATTTTAAAATTTAA
Rana_aurora              TTTTCTTCTATCGGCCACCTCGGATGGATTATTATTATTTTAAAATTTAA
Rana_cascadae            TTTTCCTCTATCGGCCACCTCGGATGGATTATTATTATTTTAAAATTCAA
Rana_muscosa_1           TTTTCCTCTATCGGCCACCTAGGATGAATTATTATTATTTTAAAATTTAA
Rana_muscosa_2           TTCTCCTCTATCGGTCACCTAGGATGAATGATTATTATTTTAAAATTTAA
Rana_macronemis          TTCTCCTCCATCGGGCACCTAGGATGAATTGTCCTCATCCTTAAATTTAG
Rana_chaochiaoensis      TTTTCCTCCATCGGACACCTTGGTTGAATTGTTATTATTATGAAGTTTGA
Rana_japonicus           TTCTCCTCCATCGGACACCTGGGTTGAATCATCATCATTATAAAATTTGA
Rana_amurensis           TTCTCCTCCATCGGACATCTCGGGTGAATAGTTATTATCATAAAATTTAA
Rana_chensinensis_1      TTTTCCTCCATCGGTCACCTAGGATGGATTGTTATCATTATAAAATTTAG
Rana_chensinensis_2      TTTTCCTCCATCGGTCACCTAGGATGGATTGTTATCATTATGAAATTTAG
Rana_temporaria          TTCTCCTCCATCGGACACCTGGGATGAATTGTTATTGTTCTAAAATTTAG
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1251-1300
Qualifiers1              ..................................................
Qualifiers2              .1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1
Xenopus_laevis           ACCCCAGTTAATAATTTTAAACTTAACAATTTACTTAATTATGACCTCCA
Bufo_andrewsi            CCCCAACCTAGCCCTCTTAAACTTCTCTCTCTATATTCTAATAACATCAA
Rana_limnocharis         CCCAATTTTGGCCATTTTTAATTTTGTTCTATACCTTATTATAACCTCCG
Polypedates_leucomystax  CCCCTCTTTAACAGAGTTTAATTTTATCTTATATATTATTATAACAACAG
Amolops_hongkongensis    CCCACAACTCACGCTATTTAACTTTGCTTTATATATCCTAATAACAACCT
Rana_tientaiensis        CCCCCAACTCACACTCCTTAACTTCCAACTTTACATCTTAATAACAGGCG
Rana_ridibunda           TCCGAGCCTGACCCTATTTAACTTTATTCTCTATATTGTCATAACGGCTT
Rana_nigromaculata       CCCCCACCTAACCCTCTTTAACTTTATTCTCTATATTTTCATAACAGCAT
Rana_plancyi             CCCCCACCTAACCCTCTTTAACTTTGTTCTCTATATTTTCATGACAACAT
Rana_catesbeiana         TCCACAACTTTCCTTATTAAACTTCGTATTATACATTATTATGACAGCCG
Rana_sylvatica           CCCTCAGCTTTCTCTCTTTAGCTTTATACTATATATTATTATAACGGCCG
Rana_warschewitschii     CCCTCAGCTTTCTTTATTTAACTTTCTTCTCTACCTAATCATAACCACTG
Rana_areolata            CCCTCAATTAACCCTATTCAACTTCATTTTATACCTAATTATGACTTCTG
Rana_pipiens             TCCCCAACTCTCCCTATTTAACTTCATTCTATATCTAATCATAACCTCTG
Rana_pretiosa            CCCTCAACTATCCCTCTTTAATTTTACACTGTACCTTATTATAACAGCCG
Rana_boylii              TCCCCAACTCTCCCTCTTTAACTTCGTTCTTTATCTTATTATAACAGCCG
Rana_aurora              CCCCCAACTTTCTCTCTTTAACTTTGTGTTGTACCTCATTATAACCGCCG
Rana_cascadae            CCCCCAACTCTCCCTCTTTAACTTTGTGTTGTATATCATCATAACGGCCG
Rana_muscosa_1           TCCCCAACTATCCCTCTTTAACTTTGTACTGTACTTCATTATGACGGCCG
Rana_muscosa_2           CCCCCAACTATCCCTACTTAACTTTGTACTGTACTTCATTATGACGGCCG
Rana_macronemis          CCCACAACTCTCCCTCTTTAACTTTATACTTTATATTATTATAACAGCCG
Rana_chaochiaoensis      TCAGCAACTTGCCCTATTCAATTTTATCCTATACATCATCATAACTGCTG
Rana_japonicus           TCCACAGCTTGCCCTCTTCAATTTTATTCTGTACATCATTATAACAGCTG
Rana_amurensis           CCCACAACTCTCCCTTTTCAACTTTATTATTTATATTATTATAACAGCTG
Rana_chensinensis_1      CCCGCAGCTCTCCCTCTTCAATTTTATCTTATACATTATCATAACAGCTG
Rana_chensinensis_2      CCCGCAGCTCTCCCTCTTCAATTTTATTTTGTACATTATCATAACAGCTG
Rana_temporaria          CCCACTGCTCTCCTTCTTCAACTTTCTACTTTATTTTATTATAACAGCCG
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1301-1350
Qualifiers1              ..................................................
Qualifiers2              ..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..
Xenopus_laevis           CGATATTCCTTGTACTAAAAACTATCTCATCCACAAAAATTTCTTCTTTA
Bufo_andrewsi            CACTCTTTTTAACCTTTATTTCCCTGAACACAAAAAACATCTACGAATTA
Rana_limnocharis         CCATATTTCTTCTCTTAATATCTATCTCAGCGACAAAACTAACTAACATT
Polypedates_leucomystax  CAATATTTCTTCTACTAACCTCGACACACGCTGTAAAATTAATTGATATC
Amolops_hongkongensis    CTATATTCGCTTCCCTTATAATAATCTCTGCCACAAAAATGTCAGAAATC
Rana_tientaiensis        CTATATTCCTCTCCCTAATATTCATTCATGCCACTAAAATATCAGAAATC
Rana_ridibunda           CTATATTCTTATCCTTAATAACCCTTTCCGCCACAAAAATGTCGGAGATC
Rana_nigromaculata       CCATATTCCTGTCCCTCATAACAATTTCTACCACAAAAATGTCTGAAATC
Rana_plancyi             CCATATTCCTGTCCCTCATAACAATTTCTACCACAAAAATGTCTGAAATT
Rana_catesbeiana         CCATATTTATATCCCTAACTACCATTTCTGCCACAAAAATGTTGGAAATC
Rana_sylvatica           CCATATTTATATCTTTAACCACAATTTCTGCTACAAAAATACTAGAAATC
Rana_warschewitschii     CCATATTTATGTCATTAATGACTATCTCTGCCACAAAAATAGTAGATATT
Rana_areolata            CTATGTTCTTATCCTTAACCAATATTCTCGCCACAAAAGTTCTAGACATT
Rana_pipiens             CCATATTCTTGTCCTTGATTAATATTTCTGCCACAAAAATTCTAGATATT
Rana_pretiosa            CCATATTCCTGTCCTTAATTTCAATATCTGCTACAAAAATGTCCCAAATC
Rana_boylii              CCATATTTATATCCTTAATTTCTGTATCTTCCACAAAAATATCCCAAATC
Rana_aurora              CTATATTTATGTCCCTAATTTCAGTATCCGCAACAAAAATATCACAAATC
Rana_cascadae            CCATATTTATATCCTTAATTTCAATGTCTGCAACAAAGATATCTCAAATC
Rana_muscosa_1           CCATATTTATATCCCTAATTTCATTATCCGCAACAAAAATATCTCAAATC
Rana_muscosa_2           CCATATTTATATCCCTAATTTCATTATCCGCAACAAAAATATCTCAAATC
Rana_macronemis          CCATATTTATATCCCTAACCGTAACATCTACCACAAAAATATCACAAATC
Rana_chaochiaoensis      CCATGTTTATATCCCTAACTGTCATATCCGCTACAAAGATGTCACAGATT
Rana_japonicus           CCATATTTATATCCCTGACTGTTATATCCACCACAAAAATATCACAAATT
Rana_amurensis           CTATATTTGCATCTTTAACTGCAATATCCACTACAAAAATATCACAAATC
Rana_chensinensis_1      CTATATTTATATCATTAAATGTAATATCCGCTACAAAAATATCACAAATC
Rana_chensinensis_2      CTATATTTATATCATTAAATGTGATATCCACTACAAAAATATCACAAATC
Rana_temporaria          CTATATTTATGTCCCTAACTGTAACATCCACCACAAAAATATCACAAATC
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1351-1400
Qualifiers1              ..................................................
Qualifiers2              1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1.
Xenopus_laevis           GCTACCTCGTGATCTAAAACCCCATCCACTACGGCACTCTCACTTTTAAC
Bufo_andrewsi            TCAACCACCTGATCTAAGACCCCAACCCTTGCAGCACTCTCAATATTATC
Rana_limnocharis         ACCTCATCATGACCAAAATCACCCATTTTAACCTCAACCACAATACTAGT
Polypedates_leucomystax  TCCATTTTATGAGCGAAAACACCAATATTAGTTGCAATTTCAATGCTTAC
Amolops_hongkongensis    GCCACTTCATGACCAAAAACACCAGCCTTAACTGCAACTACTATACTCAT
Rana_tientaiensis        TCCTCCACATGACCAAAAACCCCTGCCCTGACAACCTTGACAATATTAGT
Rana_ridibunda           TCTACCTCATGGTCAAAAACCCCAACCCTCACTGCCTCTACACTACTTAT
Rana_nigromaculata       TCTATTTCATGGTCAAAAACCCCCACTCTTACTGCAACCACCCTTCTAGT
Rana_plancyi             TCTATTTCATGGTCAAAAACCCCCACTCTTACTGCAACCACCCTTCTAGT
Rana_catesbeiana         TCTACCTCATGATCAAAAACCCCTGCTCTCACCACAACCACCATACTTAT
Rana_sylvatica           TCAACCTCATGATCTAAAACCCCCACCCTTACCACAACAACAATACTTAT
Rana_warschewitschii     TCAATCGCATGACCTAAAACCCCAGCTTTAACCACATCCATTATACTTAT
Rana_areolata            TCTACCTCATGACCTAAGACTCCCATCCTCACCACAACCATTATACTCAT
Rana_pipiens             TCTATTTCATGATCTAAAACTCCAGCCCTCACCACAACCGTTATACTTAT
Rana_pretiosa            TCTACTTCATGATCAAAAACCCCTGCTCTTTCCACAACTACTATACTTGT
Rana_boylii              TCCGCCTCATGATCGAAAACCCCTGCCCTTTCCACAACCACTATACTTGT
Rana_aurora              TCCACTTCATGATCAAAAACCCCCACCCTCTCTACCACTACGATACTTAT
Rana_cascadae            TCCACTTCATGATCAAAAACCCCTACTCTTTCTACAACTACAATACTTGT
Rana_muscosa_1           TCCACTTCATGATCAAAAACCCCCACTCTTTCTTCAACTACAATACTTAT
Rana_muscosa_2           TCCACTTCATGATCAAAAACCCCCACTCTTTCTTCAACTACAATACTTAC
Rana_macronemis          TCCACTTCATGATCAAAAACCCCAATCCTTTCCGCAACTATTATATTAGC
Rana_chaochiaoensis      TCTAGCTCATGATCAAAAACCCCCGCTCTCTCCGCCTCTACCATGCTCAT
Rana_japonicus           TCTAATTCATGGCCAAAAACGCCCGCCCTCTCCGCCTCCACCATACTTGT
Rana_amurensis           TCTACTTCCTGATCAAAAAACCCTGCCCTCTCTGCTTCTATTATGCTTAT
Rana_chensinensis_1      TCTACTTCATGATCAAAGACTCCCGCCCTCTCCGCCACCACCATGCTTAT
Rana_chensinensis_2      TCTACTTCATGATCAAAGACTCCCGCCCTCTCCGCCACCACCATGCTTAT
Rana_temporaria          TCCGCTTCATGATCAAAAACCCCCGCCCTCTCCGCAATTACCATGCTTAT
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1401-1450
Qualifiers1              ..................................................
Qualifiers2              .1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1
Xenopus_laevis           TCTTCTTTCTTTAGGTGGCCTTCCACCTCTTTCAGGGTTTGTACCAAAAT
Bufo_andrewsi            CCTTCTATCTCTTAGTGGACTTCCACCACTGACAGGGTTTTTACCAAAAT
Rana_limnocharis         TCTCCTGTCACTAGCAGGTCTCCCACCACTAACAGGATTCGCCCCAAAAC
Polypedates_leucomystax ATTACTCTCCTTAGCAGGCCTCCCGCCTCTCACCGGCTTTATACCCAAAC
Amolops_hongkongensis    TATCCTTTCACTAGCCGGACTACCACCGCTAACAGGATTTACACCAAAAC
Rana_tientaiensis        CCTACTCTCCCTAGCAGGCCTACCACCCCTAACAGGCTTTACCCCTAAAC
Rana_ridibunda           TCTTCTGTCCCTGGCAGGACTCCCACCATTAACAGGTTTTGCCCCCAAAT
Rana_nigromaculata       TCTCCTCTCACTAGCAGGTCTACCCCCACTAACGGGCTTTGCCCCTAAAC
Rana_plancyi             TCTCCTCTCACTAGCAGGTCTACCCCCACTAACGGGCTTTGCCCCTAAAC
Rana_catesbeiana         TCTATTATCCTTGGCAGGACTCCCCCCCCTTACAGGCTTTGCCCCAAAAC
Rana_sylvatica           TTTATTATCCTTAGCGGGTCTCCCACCCCTTACGGGATTCGCCCCTAAAC
Rana_warschewitschii     TTTATTATCCCTTGCAGGTCTCCCACCTCTTACTGGATTCGCCCCCAAAC
Rana_areolata            TCTATTATCCTTAGCAGGCCTTCCACCTCTAACAGGATTTGCCCCTAAAC
Rana_pipiens             TTTATTGTCCCTAGCAGGCCTTCCTCCTCTAACAGGATTTGCCCCCAAAC
Rana_pretiosa            TATACTATCTTTAGCAGGCCTTCCACCCCTCACAGGCTTCGCCCCAAAAC
Rana_boylii              TATATTATCCTTAGCGGGCCTTCCCCCCCTCACAGGCTTCGCCCCAAAAC
Rana_aurora              TATGCTATCCCTAGCGGGCCTCCCTCCTCTTACAGGCTTCGCCCCAAAAC
Rana_cascadae            CATACTATCCCTAGCGGGCCTACCACCCCTTACAGGCTTCGCTCCAAAAC
Rana_muscosa_1           TATATTATCCTTAGCGGGCCTTCCACCCCTCACAGGCTTCGCTCCCAAAC
Rana_muscosa_2           TATATTATCCTTAGCGGGCCTTCCACCCCTCACAGGCTTCGCTCCCAAAC
Rana_macronemis          CATACTATCTCTAGCGGGTCTTCCCCCGCTCACAGGATTCGCCCCCAAAC
Rana_chaochiaoensis      TATATTATCTCTGGCAGGCCTTCCACCCCTTACAGGATTTGCCCCTAAGT
Rana_japonicus           TATACTATCTTTAGCAGGCCTTCCACCCCTCACAGGATTTGCCCCTAAAC
Rana_amurensis           TATATTATCCCTAGCAGGCCTCCCACCTCTCACAGGATTTGCCCCTAAGC
Rana_chensinensis_1      TATATTATCTCTAGCCGGCCTTCCACCTCTCACGGGATTTGCCCCCAAAC
Rana_chensinensis_2      TATACTATCTCTAGCCGGCCTTCCACCTCTCACGGGATTTGCCCCTAAAC
Rana_temporaria          TATGTTGTCCCTGGCAGGCCTTCCACCACTCACAGGATTTGCCCCCAAAC
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1451-1500
Qualifiers1              ..................................................
Qualifiers2              ..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..
Xenopus_laevis           GATTTATTATTCAAGAATTGACAAGCCAAAACACAACTATTCTAGCCACA
Bufo_andrewsi            GACTTATTGCCCAAGAAATAATTAAGCAGAACATAATTGCATTCGCCCTA
Rana_limnocharis         TTCTTATTACCCTTGAACTAGTCAAACAAGACTCTATTATAATTGCAGCA
Polypedates_leucomystax  TAATTATCTCTTTAGAACTAATTAAACAGAACATAATTATTTTTGTCGCA
Amolops_hongkongensis    TTTTAATCATCTTAGAGCTAATCAAGCAAAACATAACAATGCTTGCCCTA
Rana_tientaiensis        TTATAATCACCCTCGAACTAATCAAACAAGATATGGTTCTTCTAGCCTCA
Rana_ridibunda           TACTTATTACCCTAGAACTAGTAAAACAAAATGCTACCCTTCTTGCCGCC
Rana_nigromaculata       TTCTTATTGTTCTAGAACTAATCAAACAAAATGCCACCCTACTAGCATCT
Rana_plancyi             TTCTTATTGTTCTAGAACTAATCAAACAAAATGCCACCCTACTAGCATCT
Rana_catesbeiana         TCTTAATTACCCTAGAACTAGTGAAACAAAATGCAACCCTCCTTGCCGTG
Rana_sylvatica           TCTTAATTACCCTAGAATTAATTAAACAAAGCGCAACCCTACTCGCTGCA
Rana_warschewitschii     TACTTATTATACTGGAATTAATTAAACAAACTGCGGTCCTACTCACTGCA
Rana_areolata            TCCTGATTACCCTAGAATTAATTAAACAAGATGCAACTTTACTAGCCGCA
Rana_pipiens             TCTTGATCGTCACAGAGTTGGTCAAACAAAATGCAACCCTTTTAGCCTCG
Rana_pretiosa            TCTTAATTACCCTTGAATTAGTTAAACAAAACGCAACCTTACTTACCGCA
Rana_boylii              TCTTAATTACCCTTGAATTAGTTAAACAAAACGCTACCCTACTCGCCGCA
Rana_aurora              TCTTAATCACCCTTGAGCTAGTCAAACAAAACGCAACCCTACTTGCCACA
Rana_cascadae            TCTTAATTACCCTTGAATTAATCAAGCAAAACGCAACTCTACTCGCCGCA
Rana_muscosa_1           TCTTAATTACCCTTGAATTAATTAAACAAAACGCAACTCTACTTGCTGCA
Rana_muscosa_2           TCTTAATTACCCTTGAATTAATTAAACAAAACGCAACTCTACTTGCTGCA
Rana_macronemis          TTTTAATTACCCTCGAGTTAGTTAAACAAAACGCAACTCTACTTGCCGCT
Rana_chaochiaoensis      TACTAATTACCCTTGAGTTAGTGAAACAAAACGCAACTCTACTTGCCTCC
Rana_japonicus           TATTGATCACCCTCGAGTTAGTGAAACAAAACGCAACCCTACTTGCTTCT
Rana_amurensis           TACTAATCACCCTTGAATTAGTTAAACAAGACGCAACCCTACTCGCCTCC
Rana_chensinensis_1      TATTAATTATTCTTGAATTGGTAAAACAAGACGCAATTCTGCTTGCCGCA
Rana_chensinensis_2      TATTAATTATTCTTGAATTGGTAAAACAAGACGCAATCCTGCTTGCTGCA
Rana_temporaria          TATTAATTACCCTTGAATTAGTAAAACAAAATGCAACCCTACTCGCTGCA
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1501-1550
Qualifiers1              ..................................................
Qualifiers2              1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1.
Xenopus_laevis           ACACTAGCTCTGTCAGCACTACTCAGCCTATTTTTCTACCTTCGCCTAAC
Bufo_andrewsi            ATAATTCTCCTGTCAACACTCCTCAGCCTATTCTTCTACCTTCGTCTCAC
Rana_limnocharis         CTTCTTATACTCGCTTCTCTTCTCACACTGTTCTTCTACGTCCGCTTAAC
Polypedates_leucomystax CTCGCTATGTTAGCCTCACTTCTTGCCCTATTCTTCTACCTACGCCTCAC
Amolops_hongkongensis    ACAATTATATTTATCTCCTTATTAACCCTCTTTTTTTATCTTCGACTAAC
Rana_tientaiensis        ATTGCCATATTAGCTTCACTCCTTGCCCTCTTTTTTTATCTTCGACTCAC
Rana_ridibunda           CTAATTATATTAGCCTCTTTACTAGCCCTATTCTTTTATCTCCGACTAAC
Rana_nigromaculata       TTAATTATACTAGCCTCCCTATTAGCTCTATTCTTCTACCTACGACTAAC
Rana_plancyi             TTAATTATACTAGCCTCCCTATTAGCTCTCTTCTTCTACCTACGACTAAC
Rana_catesbeiana         ATAGTCATGTTTATTTCCCTATTAGCTTTATTTTTTTATATCCGACTGAC
Rana_sylvatica           ACAATTATATTCATCTCCCTATTAGCTCTCTTTTTTTACTTACGTTTGAC
Rana_warschewitschii     GCAATTATGTTTATTTCTATACTAGCTCTCTTTTTTTATATCCGCTTATC
Rana_areolata            ACAATTATGTTTATTTCTATACTGGCCCTATTTTTCTACCTTCGCCTAGC
Rana_pipiens             TCAATTATACTCATCTCAATACTAGCCTTATTTTTTTACCTTCGCTTAGC
Rana_pretiosa            ATAATTATACTCATCTCTTTGTTAGCCCTCTTTTTTTACCTACGACTGAC
Rana_boylii              ATTATTATACTTATTTCCCTATTAGCCCTCTTCTTCTACTTACGACTAAC
Rana_aurora              ACAATCATATTCATCTCTTTATTAGCCCTCTTTTTTTACTTACGACTAAC
Rana_cascadae            ACAATCATGCTCATCTCCTTATTAGCCCTCTTTTTTTATCTACGATTGAC
Rana_muscosa_1           GCAGTCATGCTCATCTCTTTATTAGCCCTCTTTTTTTATTTACGACTAAC
Rana_muscosa_2           GCAATCATGTTTATCTCTTTATTAGCCCTTTTTTTTTATTTACGACTAAC
Rana_macronemis          GTAACTATGCTTATCTCTTTGCTAGCCCTCTTTTTCTATCTACGACTAAC
Rana_chaochiaoensis      GTAACCATACTCATCTCTTTGCTAGCCCTCTTTTTTTACTTACGACTAAC
Rana_japonicus           GTTACTATGTTCATCTCCCTGCTAGCCCTCTTTTTTTATTTACGACTAAC
Rana_amurensis           ATAACTATACTCATTTCCCTACTAGCCCTCTTTTTTTACCTACGATTGAC
Rana_chensinensis_1      GTAGTTATACTCATCTCTTTACTAGCCCTATTTTTTTACTTGCGACTAAC
Rana_chensinensis_2      GTAGTTATGCTTATCTCTTTACTAGCCCTCTTTTTTTACTTGCGACTAAC
Rana_temporaria          GTAATTATGCTTATCTCCTTACTAGCCCTCTTTTTTTATCTACGACTAGC
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1551-1600
Qualifiers1              ..................................................
Qualifiers2              .1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1
Xenopus_laevis           TTATATTGTCACACTAACATCATCACCAAATACATCAAACGCATCATTAA
Bufo_andrewsi            ATACTCCATATCCCTTACCCTGGCACCTAACCTATCCTCCTCTTCTTTAC
Rana_limnocharis         ATATCTTATTATTCTTACTATCCCCCCAAATACTCATATCTCGTCTGCCA
Polypedates_leucomystax CTACGTCATAGTTATAATTACCGCACCAAATATGTCTACCACCAATAGCC
Amolops_hongkongensis    ATATGTTATAACATTAACCCTGGCCCCCAATACCCCAAACTCTCTTGTTT
Rana_tientaiensis        ATACGTAATAGCCCTAACTCTGCCCCCCAACTCTCCTAACTCCTCCCTAA
Rana_ridibunda           ATATATTGTTTCTCTAACTCTTCCACCTAACACCCCCAATTCATTTTCCT
Rana_nigromaculata       ATACATCGTCTCCCTCACCCTCCCCCCCCAACACCCCGAATTCATTTTCTT
Rana_plancyi             ATACATCGTCTCCCTCACCCTCCCCCCCCAACACCCCGAATTCATTTTCTT
Rana_catesbeiana         ATATGTGGTTACCCTAACTCTCTCCCCAAATACCCCCAACTCATTACTCA
Rana_sylvatica           ATACATCGTTACCCTAACCCTCTCCCCCAATACCCCTAATTCACTGCTCA
Rana_warschewitschii     TTATATTATTTCTCTTACTCTCTCCCCAAATACCCCTAGTTCCCTCCTTA
Rana_areolata            ATATATTGTTACTATGACTCTTCCCCCAAACACCCCTAATTCCCTACTCA
Rana_pipiens             ATACATTGTTACTATGACCCTCCCTCCTAACACCCCTAATTCTTTACTCA
Rana_pretiosa            ATATATCGTTACCATGACCCTCTCCCCAAATACCCCTAACTCACTAGCTA
Rana_boylii              ATACATTATTACCATAACCCTCTCCCCTAACACCCCCAGCTCGCTAGTTA
Rana_aurora              ATACATTGTTACTATGACCCTCTCTCCAAACACCCCTAACTCACTGACCA
Rana_cascadae            ATACATTGTTACTATAACCCTCTCCCCAAACACCCCCAATTCGCTAAACA
Rana_muscosa_1           ATACATTATTACCATGACCCTCTCCCCAAACACCCCCGATTCACTAATCA
Rana_muscosa_2           ATACATTATTACCATAACCCTCTCCCCAAACACCCCTAATTCATTAATCA
Rana_macronemis          ATACATAATTACTTTAACCCTCTCACCCAACACTCCCAATTCACTACTCA
Rana_chaochiaoensis      CTATGTTATTACTTTAACCCTCTCACCCAACACCCCTAACTCACTACTCA
Rana_japonicus           ATACATCATCACTTTAACCCTTTCACCAAATACCCCTGACTCCCTCCTCA
Rana_amurensis           ATACATCATTACTTTAACCCTCTCACCTAACACCCCCAATTCACTACTCA
Rana_chensinensis_1      ATATATTATTGCCCTAACCCTCTCACCCAATACCCCTGATTCATTACTCA
Rana_chensinensis_2      ATATATTATTGCCCTAACCCTCTCACCCAATACCCCTGATTCATTACTCA
Rana_temporaria          GTATATCATCACCTTAACTCTTTCACCCAATACGCCTAACTCGCTACTCA
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1601-1650
Qualifiers1              ..................................................
Qualifiers2              ..1..1..1..1..1..1..1..1..1..1..1..1..1..1..1..
Xenopus_laevis           CATGACGACACCACTCTAAACAACCATCACTTTTATTATCAATCGCATTA
Bufo_andrewsi            TCTGGTTTAATCCATCAAAAAATATTCTCGCCCCACCAATAGTTCTTTCC
Rana_limnocharis         GCTGACGCAACTCACGCTTTTCTATCTTAACTGCTGTTCTGTCAGTTCTA
Polypedates_leucomystax  TATGACGCATAGCTAACAAAATTAATTCACTAACAGCACTATTTAACAAT
Amolops_hongkongensis    CTTGACGAATAACAATAAAATCATTATCACTAAATGCCTTCATAAATATC
Rana_tientaiensis        CCTGACGAATCTCTTCAAAATCACATACATTAACCTCTGTTATGAACACT
Rana_ridibunda           TCTGACGAACATCAAATAAATCCCTCGCAATTACCGCGATTATAAATACT
Rana_nigromaculata       CATGACGATCTTCAACCAAAACTCACCTATCCACTGCCATTGCAAACACC
Rana_plancyi             CATGACGATCTTCAACCAAAACTCACCTATCCACTGCCATTGCAAACACC
Rana_catesbeiana         CTTGACGAACTGCCTCTCGATCTTACTCAACAACTGCTATTATAAATACC
Rana_sylvatica           CCTGACGAACCACCTCTACATCCTACTCAATAACCGCTATCGTGAATTCT
Rana_warschewitschii     CTTGACGAATCCCCCGCTCTTCATATTTAGCAACCGCCATTATTAATGCT
Rana_areolata            CTTGACGCACCCCAAATCCTACACACTCACCAACCGCCATTATTAACGTA
Rana_pipiens             ACTGACGAACCCCTCACCCAACACACTTACCAACTGCCATTATTAATGTA
Rana_pretiosa            CCTGACGTACTACTTCAAAATCATATTCATCAACCGCCATCATAAATACC
Rana_boylii              CCTGACGAACCACTCCTAAATCATATTCATCAACCGCTGTTATTAATACC
Rana_aurora              CCTGACGAACCCCCCCTAAATCACACTCGTCAACCGCTATCATAAATACC
Rana_cascadae            CCTGACGAACCACCTCTAAATCCCACCCATCAACCGCTATTATAAATACC
Rana_muscosa_1           CCTGACGAACCACTCCAAAATCACACCCATCAACCGCTATCATAAATACC
Rana_muscosa_2           CCTGACGAACCACCCCAAAATCACACCCATCAACCACTATCATAAATACC
Rana_macronemis          TCTGACGAACCACCCCAAAATCATACTCACCAACCGCAGTCATGAATGCC
Rana_chaochiaoensis      TTTGACGGACTACCCCCAAATCATATTCACCCACCGCAATCATGAATACT
Rana_japonicus           TTTGACGAGCCACCCCTAAAGCACACGCATTTACCGCAGTCATGAATACC
Rana_amurensis           TTTGACGAATCACCCCTAAACTATATTCATTAATCGCAGTAATAAATATC
Rana_chensinensis_1      TTTGACGAACCACCCCCAAATCATACTCATTAATCGCAATTATAAATACT
Rana_chensinensis_2      TTTGACGAACCACCCCCAAATCATACTCATTAATCGCAATTATAAATACT
Rana_temporaria          TTTGACGAACCACCCCAAAATCACATTCACCAACCGCAATCATGAGTACC
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1651-1700
Qualifiers1             ..............................................ND2T
Qualifiers2             1..1..1..1..1..1..1..1..1..1..1..1..1..1...STPA
Xenopus_laevis          ATCCTATCCTCATTTATTATTCCAATTTCACCATTAACTTTAACA---TA
Bufo_andrewsi           CTCCTCCTTCTACCCATCACCCCCACCATCATAATTATA---ATT---TA
Rana_limnocharis        GCGCTCTTTATATTCCCTATATCAACCACCCTGATGATAATTCTC---TA
Polypedates_leucomystax CTTGCAATCTTTACTATTATAATGACGCCAACAATTATTCTTTTTTTATA
Amolops_hongkongensis   CTAGCTCTTAGTCTCCTCCCGCTCACTCCAACCCTCCTCACCCTCATGTA
Rana_tientaiensis       ACTGCCCTTATCCTCTTCCCCCTCTCCCCCACCCTCCTCACCATA---TA
Rana_ridibunda          CTTGCACTTATTTTTCTTCCACTTACCACAACCCTCCTCATTTTTTTATA
Rana_nigromaculata      ATCGCACTCATCTCCCTCCCACTCACTCCCACACTCCTCCTATTCGTTTA
Rana_plancyi            ATCGCACTCATCTCCCTCCCACTCACTCCCACACTCCTCCTATTCGTTTA
Rana_catesbeiana        ATGGCACTTATCCTTCTTCCCATTACCCCAACTCTCCTTCTCTTA---TA
Rana_sylvatica          ATAGCCCTCATTCTCCTTCCCGTCACCCCGACTCTAATACTCTTA---TA
Rana_warschewitschii    TTAGCTCTTATTCTTTTTCCAATCACCCCAACCCTTCTC---CTG---TG
Rana_areolata           ATAGCCCTCATCCTTCTCCCTCTTACCCCCACACTTCTACTCCTG---TA
Rana_pipiens            ATAGCCCTTATTCTTCTTCCCCTTACCCCCACACTTTTGCTCCTA---TA
Rana_pretiosa           CTTGCCCTCATTCTCCTCCCCCTTACCCCAACCCTCCTTCTTATG---TA
Rana_boylii             CTCGCCCTCATTCTCCTCCCCCTCACCCCGACCCTCCTTCTTATG---TA
Rana_aurora             CTTGCCCTTATTCTTCTCCCCCTTACCCCAACCCTCCTCCTTATA---TA
Rana_cascadae           CTCGCCCTTATTCTTCTTCCCCTCACCCCAACCCTCCTTCTTATA---TA
Rana_muscosa_1          CTCGCCCTTATTCTTCTTCCCCTTACCCCAACCCTCCTC---ATA---TA
Rana_muscosa_2          CTCGCCCTCATTCTTCTTCCCCTTACCCCAACCCTCCTC---ATA---TA
Rana_macronemis         TTAGCCCTCATTCTCCTCCCCCTCACACCCACCATTCTC---ATG---TA
Rana_chaochiaoensis     CTGGCCCTCACCCTCCTCCCCCTTACACCCACTATACTTCTTCTG---TA
Rana_japonicus          CTGGCCCTCATCCTCCTCCCCCTCACACCCACTATACTTCTTCTG---TA
Rana_amurensis          CTAGCCCTTATTCTTCTCCCTCTCACACCTACTATCCTCCTCTTA---TA
Rana_chensinensis_1     CTAGCCCTTACTCTTCTCCCCCTCACACCGACCATTCTTTTTCTA---TA
Rana_chensinensis_2     CTAGCCCTTACTCTTCTCCCCCTCACACCGACCATTCTTTTTCTA---TA
Rana_temporaria         CTGGCCCTTATTCTCCTCCCTCTTACACCTACTATTCTCCTTATC---TA
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1701-1750

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Qualifiers1             RP.............................................
Qualifiers2             A>>>>>..D>>>.......D>>>.AC>>>..COD..AC>>>....T>>>>
Xenopus_laevis          GAGATTTAAGTTAACA--AGACTAAGAGCCTTCAAAGCCCTAAGCAGGAG
Bufo_andrewsi           GAAACTTAGGATAATTT-AGACCAGGAGCCTTCAAAGCCCCAAGTAGAAG
Rana_limnocharis        GAGACTTAGGATAGAA--AGACCAAGGGCCTTCAAAGCCCTAAGCAGGAG
Polypedates_leucomystax GAAATTTAGGGTAATGCCAGCCCGAAGGCCTTCAAAGCCTTAAGCAAGAG
Amolops_hongkongensis   GAAATTTAGGTTAATGCTAGACCAAAGGCCTTCAAAGCCTTAAACAAAGG
Rana_tientaiensis       GAAACTTAGGCTAATAC-AGACCAAAGACCTTCAAAGCCTTAAGCGAAGG
Rana_ridibunda          GAAACTTAGGCTAACAA-AGACCAAAGGCCTTCAAAGCCTTAAGCGGAGG
Rana_nigromaculata      GAAACTTAGGCTAGCAC-AGACCAAAGGCCTTCAAAGCCTTAAGCGAGGG
Rana_plancyi            GAAACTTAGGCTAGCAC-AGACCAAAGGCCTTCAAAGCCTTAAGCGAGGG
Rana_catesbeiana        GAAACTTAGGCTAGCAC-AGACCAAAGGCCTTCAAAGCCTTAAGCGGAGG
Rana_sylvatica          GAAACTTAGGCTAACAT-AGACCAAAGGCCTTCAAAGCCTTAAGCGAAGG
Rana_warschewitschii    GAGATTTAGGTTAATA--AGACCAAAGACCTTCAAAGTCTTCAGTGAAGG
Rana_areolata           GGAACTTAGGCTAATAA-AGACCAAAGGCCTTCAAAGCCTTAAGTGAAGG
Rana_pipiens            GAAACTTAGGTTAACAT-AGACCAAAGGCCTTCAAAGCCTTAAGCGAAGG
Rana_pretiosa           GAAACTTAGGCTAACAC-AGACCAAAGGCCTTCAAAGCCTTAAGCGAAGG
Rana_boylii             GAAACTTAGGCTAATAC-AGACCAAAGGCCTTCAAAGCCTTAAGTGAAGG
Rana_aurora             GAAACTTAGGCTAATAC-AGACCAAAGGCCTTCAAAGCCTTAAGTGAAGG
Rana_cascadae           GAAACTTAGGCTAACAC-AGACCAAAGGCCTTCAAAGCCTTAAGTGAAGG
Rana_muscosa_1          GAAACTTAGGCTAACAC-AGACCAAAGGCCTTCAAAGCCTTAAGTGAAGG
Rana_muscosa_2          GAAACTTAGGCTAACAC-AGACCAAAGGCCTTCAAAGCCTTAAGTGAAGG
Rana_macronemis         GAAACTTAGGCTAACAC-AGACCAAAGGCCTTCAAAGCCTTAAGTGAAGG
Rana_chaochiaoensis     GAAACTTAGGCTAATTT-AGACCAAAGGCCTTCAAAGCCTTAAGTGAAGG
Rana_japonicus          GAAACTTAGGCTAACTC-AGACCAAAGGCCTTCAAAGCCTTAAGTGAAGG
Rana_amurensis          GAAACTTAGGTTAACCT-AGACCAAAGGCCTTCAAAGCCTTAAGCGAAGG
Rana_chensinensis_1     GAAACTTAGGCTAAAAT-AGACCAAAGGCCTTCAAAGCCTTAAGTGAAGG
Rana_chensinensis_2     GAAACTTAGGCTAAAAT-AGACCAAAGGCCTTCAAAGCCTTAAGTGAAGG
Rana_temporaria         GAAACTTAGGCTAACAC-AGACCAAAGGCCTTCAAAGCCTTAAGTGAAGG
```

```
1751-1800
Qualifiers1                 ..................TRP..ALA.........................
Qualifiers2                 .......T>>>>AA>>>>>*..*<<<<<AA<<<<T.......<<<<T...
Xenopus_laevis              TTAGAATCTCCTAATCTCTGAATAAGGCTTGCAGGATTTTATCCAACATC
Bufo_andrewsi               TTAAAATCTTCTAGTTTCTG--TAAGACTTGCGGGACATTAACCCGCATC
Rana_limnocharis            TTAAAGCCTCCTAGTTTCTG--TAGGACTTGCGGG-TTCTACCCCACATC
Polypedates_leucomystax     TTTAAATCTCTTAATTTCTG--TAGGACTTGTAGGATATTAACCTACATT
Amolops_hongkongensis       TTAGACCCCTTTAATTTCTG--TAGGACTTGCAGGATATTATCCTACATC
Rana_tientaiensis           TTTAACTCCTTCAGTTTCTG--TAGGACTTGCAGGATATCAACCTACATC
Rana_ridibunda              TTAAACCCCTTCAGTTTCTG--TAGGACTTGCAGAATATTAATCTACATC
Rana_nigromaculata          TTAAACTCCTTCAGTTTCTG--TAGGACTTGCAGGATATCAACCTACATC
Rana_plancyi                TTAAACTCCTTCAGTTTCTG--TAGGACTTGCAGGATATCAACCTACATC
Rana_catesbeiana            TTAAACTCCTTCAGTTTCTG--TAGGACTTGCAGGATATTAACCTACATC
Rana_sylvatica              TTAAATTCCTTCAGTTTCTG--TAGGACTTGCAGGATATCAACCTACATC
Rana_warschewitschii        TTAAACGCCATCAATTTCCG--TAGGACTTGCAGGATATTAACCTACATT
Rana_areolata               TTAAACTCCTTCAGTTTCTG--TAGAACTTGCAAGATATTAACTTACATC
Rana_pipiens                TTAAACTCCTTCAGTTTCTG--TAGAACTTGCAAGATATTAACTTACATC
Rana_pretiosa               TTAAACTCCTTCAGTTTCTG--TAGGACTTGCAAGATATTAACCTACATC
Rana_boylii                 TTAAACCCCTTCAGTTTCTG--TAGGACTTGCAGGACATCAACCTACATC
Rana_aurora                 TTAAACCCCTTCAGTTTCTG--TAGAACTTGCAGGATATTAACCTACATC
Rana_cascadae               TTAAATCCCTTCAGTTTCTG--TAGGACTTGCAGGATATTAACCTACATC
Rana_muscosa_1              TTAAACCCCTTCAGTTTCTG--TAGAACTTGCAGGATATTAACCCACATC
Rana_muscosa_2              TTAAACCCCTTCAGTTTCTG--TAGAACTTGCAGGATATTAACCCACATC
Rana_macronemis             TTAAACCCCTTCAGTTTCTG--TAGGACTTGCGGGACATTAACCCACATT
Rana_chaochiaoensis         TTAGACCCCTTCAGTTTCTG--TAGGACTTGCAGGATATTAACCTACATC
Rana_japonicus              TTAAACCCCTTCAGTTTCTG--TAGGACTTGCAGGACATCAACCTACATC
Rana_amurensis              TTAAAGCCCTTCAGTTTCTG--TAGAACTTGCAGGATTCTAACCTACATT
Rana_chensinensis_1         TTAAACCCCTTCAGTTTCTG--TAGGACTTGCAGGGTATTAACCTACATC
Rana_chensinensis_2         TTAAACCCCTTCAGTTTCTG--TAGGACTTGCAGGGTATTAACCTACATC
Rana_temporaria             TTAAACCCCTTCAGTTTCTG--TAGGACTTGCAGGACATTAACCTACATT
```

1801-1850

```
Qualifiers1              ....................................ALA..ASN...
Qualifiers2              .<<<AC..COD..<<<AC.<<<D......<<<D..<<<<<AA..*<<<<<
Xenopus_laevis           AATTGAATGCAACTCAAACACTTT-AATTAACGTAAAGCCTTT-CTAGAA
Bufo_andrewsi            TTCTGGATGCAAACCAGACACTTT-AACTAAGCTAAAGCCTT--CTAGAA
Rana_limnocharis         ATTTGAATGCAACTCAAAAACTTTTAATTAAGCTAAAGTCCTTTCTAGAA
Polypedates_leucomystax  TACTGAATGCAACTCAACCTTTTTAAATTAAAATAAAGCCCTT-CTAGAA
Amolops_hongkongensis    TTCTAAATGCAACTCAGACCCTTTAAATTAAGATAAAGCCCT--CTAGAA
Rana_tientaiensis        TCCTGAATGCAACTCAGACCCTTTTGATTAAGATAAAGCCCT--CTAGAA
Rana_ridibunda           TCCTGAATGCAACTCAGGCCCTTT-AATTAAGATAAAGCCCT--CTAGAA
Rana_nigromaculata       TCCTGAATGCAACTCAGGCCCTTTAGATTAAGATAAAGCCCT--CTAGAA
Rana_plancyi             TCCTGAATGCAACTCAGGCCCTTTAGATTAAGATAAAGCCCT--CTAGAA
Rana_catesbeiana         TCCTGAATGCAACTCAGGCCCTTTAAATTAAGATAAAGCCCT--CTAGAA
Rana_sylvatica           TCCTGAATGCAACTCAGACTCTTTAAATTAAGATAAAGCCCT--CTAGAA
Rana_warschewitschii     TTCTGAATGCAACTCAGACTCTTTGGCTTAAGATAAAGTCCT--CTAGAA
Rana_areolata            TTCTGAATGCAACTCAGACCCTTTAAATTAAGATAAAGCTCT--CTAGAA
Rana_pipiens             TTCTGAATGCAACTCAGACCCTTTCAATTAAGATAAAGTTCT--CTAGAA
Rana_pretiosa            TCCTGAATGCAACTCAGGCCCTTTAAATTAAGATAAAGCCCTT-CTAGAA
Rana_boylii              TCCTGAATGCAACTCAGGCCCTTTAAATTAAGATAAAATCCTG-CTAGAA
Rana_aurora              TCCTGAATGCAACTCAGACCCTTTAAATTAAGATAAAGTCCTT-CTAGAA
Rana_cascadae            TCCTGAATGCAACTCAGACCCTTTAAATTAAGATAAAGTCCTT-CTAGAA
Rana_muscosa_1           TCCTGAATGCAACTCAGACCCTTTAAATTAAGATAAAGTCCTT-CTAGAA
Rana_muscosa_2           TCCTGAATGCAACTCAGACCCTTTAAATTAAGATAAAGTCCTT-CTAGAA
Rana_macronemis          TCCTGAATGCAACTCAGACTCTTTAGATTAAGATAAAGCCCT--CTAGAA
Rana_chaochiaoensis      CCCTGAATGCAACTCAGATTCTTTAAATTAAGATAAAGTCCT--CTAGAA
Rana_japonicus           TTCTGAATGCAACCCAGACTCTTTAAATTAAGGTAAAGTCCT--CTAGAA
Rana_amurensis           TCCTGAATGCAACTCAGATTCTTTAAATTAAGATAAAGTTCT--CTAGAA
Rana_chensinensis_1      CCCTGAATGCAACTCAGATTCTTTAAATTAAGATAAAGTCCT--CTAGAA
Rana_chensinensis_2      CCCTGAATGCAACTCAGATTCTTTAAATTAAGATAAAGTCCT--CTAGAA
Rana_temporaria          TCCTGAATGCAACTCAGGCTCTTTAAATTAAGATAAAGCCCT--CTAGAA
```

1851-1900

```
Qualifiers1              ..................................................
Qualifiers2              AA<<<<T.......<<<<T.....<<<AC..COD..<<<AC.<<<D....
Xenopus_laevis           AGACGGGCCTCGATCCCGCAACATTTTAGTTAACAGCTAAACTCAA--TC
Bufo_andrewsi            AGACGGGCCTCGATCCCGCAAAATTTTAGTTAACAGCTAAACGCTCAATC
Rana_limnocharis         AGACGGGCCTTGATCCCGCAACAGTTTAGTTAACAGCTAAACGCTCTATC
Polypedates_leucomystax AGACGGGCCTTGATCCCGTAATATTTTAGTTAACAGCTAAACACTCTATC
Amolops_hongkongensis    TGACGGGCCTCGATCCCGTAATATTTTAGTTAACAGCTAAATACTCTATC
Rana_tientaiensis        TGACGGGCCTCGATCCCGTAATATTTTAGTTAACAGCTAAGCACTCTATC
Rana_ridibunda           TGACGGGCCTCGATCCCGTAATATTTTAGTTAACAGCTAAACACTCTATC
Rana_nigromaculata       TGACGGGCCTCGATCCCGTAATATTTTAGTTAACAGCTAAACACTCTATC
Rana_plancyi             TGACGGGCCTCGATCCCGTAATATTTTAGTTAACAGCTAAACACTCTATC
Rana_catesbeiana         TGACGGGCCTCGATCCCGTAATATTTTAGTTAACAGCTAAACACTCTATC
Rana_sylvatica           TGACAGGCCTCGATCCTGTAATATTTTAGTTAACAGCTAAACACTCTATC
Rana_warschewitschii     TGACGGGCCTCGATCCCGTAATATTTTAGTTAACAGCTAAACACTCAATC
Rana_areolata            TGACGGGCCTTGATCCCGCAATAATTTAGTTAACAGCTAAATACTCTATC
Rana_pipiens             TGACGGGCCTTGATCCCGTAATACTTTAGTTAACAGCTAAATACTCAATC
Rana_pretiosa            TGACGGGCCTCGATCCCGTAATATTTTAGTTAACAGCTAAACACTCTATC
Rana_boylii              TGACGGGCCTCGATCCCGTAATATTTTAGTTAACAGCTAAACACTCTATC
Rana_aurora              TGACGGGCCTCGATCCCGCAATATTTTAGTTAACAGCTAAATACTCTATC
Rana_cascadae            TGACGGGCCTTGATCCCACAATATTTTAGTTAACAGCTAAACACTCTATC
Rana_muscosa_1           TGACGGGCCTTGATCCCGCAATATTTTAATTAACAGCTAAACACTCTATC
Rana_muscosa_2           TGACGGGCCTTGATCCCGCAATATTTTAATTAACAGCTAAACACTCTATC
Rana_macronemis          TGACGGGCCTCGATCCCGTGATATTTTAGTTAACAGCTAAACACTCCATC
Rana_chaochiaoensis      TGACGGGCCTCGATCCCGTAATATTTTAGTTAACAGCTAAACACTCTATC
Rana_japonicus           TGACGGGCCTCGATCCCGTAATATTTTAGTTAACAGCTAAACACTCTATC
Rana_amurensis           TGACGGGCCTCGATCCCGTAATATTTTAGTTAACAGCTAAACACTCTATC
Rana_chensinensis_1      TGACGGGCCTCGATCCCGTAATGCTTTAGTTAACAGCTAAATACTCTATC
Rana_chensinensis_2      TGACGGGCCTCGATCCCGTAATGCTTTAGTTAACAGCTAAATACTCTATC
Rana_temporaria          TGACGGGCCTCGATCCCGTAATATTTTAGTTAACAGCTAAACACTCTATC
```

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1901-1950
Qualifiers1              ..............ASNOL.............................
Qualifiers2              ....<<<D..<<<<<AA>>>>>>>>>.....................>
Xenopus_laevis           CAACGAGCTTCATTCTACTTCTCCCGTTTATTAAGCCAAAAAAAC----C
Bufo_andrewsi            CAGAGAGCTTCATTCTACTTCTCCCGGTTTTAAGAAA-----------C
Rana_limnocharis         CAGCGAGCTTCTTTCTACTTCTCCCGTTTTTGTAGGGGGGGGGAAAAAAC
Polypedates_leucomystax CAGCGAGCTTCATTCTACTTCTCCCGTCTACAGCGAAA-----------C
Amolops_hongkongensis    CAGCGAGCTTCATTCTACTTCTCCCGCTTATAGAAA------------C
Rana_tientaiensis        CAGCGAGCTTCATTCTACTTCTCCCGTTTAAGTAAG------------C
Rana_ridibunda           CAGCGAGCTTCATTCTACTTCTCCCGCTTCTTTAAA------------C
Rana_nigromaculata       CAGCGAGCTTCATTCTACTTCTCCCGCTTATTAAAAAA----------C
Rana_plancyi             CAGCGAGCTTCATTCTACTTCTCCCGCTTATTAAAAAA----------C
Rana_catesbeiana         CAGCGAGCTTCATTCTACTTCTCCCGCTTATAAAAAAA----------C
Rana_sylvatica           CAGCGAGCTTCATTCTACTTCTCCCGTCTATGAAAAAAA----------C
Rana_warschewitschii     CAGCGAGCTTCACTCTACTTCTCCCGCTTATTTAAAAAA----------C
Rana_areolata            CAGCGAGCTTCATTCTACTTCTCCCGCTTATGGAAAAA----------C
Rana_pipiens             CAGCGAGCTTCATTCTACTTCTCCCGCTTATAT--AAAA----------C
Rana_pretiosa            CAGCGAGCTTCATTCTACTTCTCCCGCTTATTAAAAAAA----------C
Rana_boylii              CAGCGAGCTTCATTCTACTTCTCCCGCTTCAA-AAAAAA----------C
Rana_aurora              CAGCGAGCTTCATTCTACTTCTCCCGCTTCTTAAAAAAA----------C
Rana_cascadae            CAGCGAGCTTCATTCTACTTCTCCCGCTTCTTTAAAAAA----------C
Rana_muscosa_1           CAGCGAGCTTCATTCTACTTCTCCCGCTTCTTAAAAAAA----------C
Rana_muscosa_2           CAGCGAGCTTCATTCTACTTCTCCCGCTTCTTAAAAAAA----------C
Rana_macronemis          CAGCGAGCTTCATTCTACTTCTCCCGTCTCTAAAAAAAA----------C
Rana_chaochiaoensis      CAGCGAGCTTCATTCTACTTCTCCCGTCATGAAAAAA------------C
Rana_japonicus           CAGCGAGCTTCATTCTACTTCTCCCGTCTGTGAAAAAAA----------C
Rana_amurensis           CAGCGAGCTTCATTCTACTTCTCCCGTCTATGGGGGAAA----------C
Rana_chensinensis_1      CAGCGAGCTTCATTCTACTTCTCCCGTCTATAAAAAAAA----------C
Rana_chensinensis_2      CAGCGAGCTTCATTCTACTTCTCCCGTCTATGGAAAAAA----------C
Rana_temporaria          CAGCGAGCTTCATTCTACTTCTCCCGTCTATGGAAAAAA----------C
```

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1951-2000
Qualifiers1              ...OLCYS.....................................
Qualifiers2              >>>>>*<<<<<AA<<<<T.......<<<<T....<<<AC..COD..<<<A
Xenopus_laevis           GGGAGAAGCCC-GGCAAACCTTCG-TTTGCTTCTCGAGATTTGCAATCTG
Bufo_andrewsi            GGGAGAAGCCCCGGCAGAACTTCT-TCTGCGTCTCCGGACTTGCAATCTG
Rana_limnocharis         GGGAGAAGCCCCGGCAGGAACTTATTCTGCTTCTTGGGGTTTGCAACCCC
Polypedates_leucomystax  GGGAGAAGCCCCGGCAGAACTGCT-TCTGCTTCTTGCGGTTTGCACCCGC
Amolops_hongkongensis    GGGAGAAGCCCCGGCAGGTATTAA-CCTGCTTCTTGCGGTTTGCAACCGC
Rana_tientaiensis        GGGAGAAGCCCCGGCAGGCGTTAC-CCTGCATCTTGAGGTTTGCAACCTC
Rana_ridibunda           GGGAGAAGCCCCGGCAGGTATTAT-CCTGCGTTTTGCGGTTTGCAACCGC
Rana_nigromaculata       GGGAGAAGCCCCGGCAGGAATTAC-CCTGCATCTCGTGGTTTGCAACCAC
Rana_plancyi             GGGAGAAGCCCCGGCAGGAATTAC-CCTGCATCTCGTGGTTTGCAACCAC
Rana_catesbeiana         GGGAGAAGCCCCGGCAGGTATTAT-ACTGCTTCTTGGGGTTTGCAACCCC
Rana_sylvatica           GGGAGAAGCCCCGGCAGGAATTAA-ACTGCGTTTCGAGGTTTGCAACCTC
Rana_warschewitschii     GGGAGAAGCCCCGGCAGGTATTAT-TCTGCTTTTTGGAGTTTGCAACCCC
Rana_areolata            GGGAGAAGTCCCGGCAGGTCTTAT-CCTGCTTTTTGAGATTTGCAATCTC
Rana_pipiens             GGGAGAAGTCCCGGCAGGTTTTAC-CCTGCTTTTCGAGATTTGCAATCTC
Rana_pretiosa            GGGAGAAGCCCCGGCAGGTATTAT-CCTGCATCTTAAGGTTTGCAACCTC
Rana_boylii              GGGAGAAGCCCCGGCAGGAATTAT-CCTGCATCTTAAGGTTTGCAACCTC
Rana_aurora              GGGAGAAGCCCCGGCAGGTATCAA-CCTGCATTTTAAGGTTTGCAACCTC
Rana_cascadae            GGGAGAAGCCCCGGCAGGTATTAT-CCTGCATCTTGAGGTTTGCAACCTC
Rana_muscosa_1           GGGAGAAGCCCCGGCAGGAATTAT-CCTGCATCTTAAGGTTTGCAACCTC
Rana_muscosa_2           GGGAGAAGCCCCGGCAGGAATTAT-CCTGCATCTTAAGGTTTGCAACCTC
Rana_macronemis          GGGAGAAGCCCCGGCAGGCGTTAA-CCTGCGTCTTGAGGTTTGCAACCCC
Rana_chaochiaoensis      GGGAGAAGCCCCGGCAGGCGTTAA-CCTGCGTCTTGAGGTTTGCAACCCC
Rana_japonicus           GGGAGAAGCCCCGGCAGGCGTTAA-CCTGCGTTTTAAGGTTTGCAACCCT
Rana_amurensis           GGGAGAAGCCCCGGCAGGTATTAA-CCTGCGTCTTGAGGTTTGCAACCCC
Rana_chensinensis_1      GGGAGAAGCCCCGGCAGGCGTTAA-CCTGCGTCTTAGGGTTTGCAACCCC
Rana_chensinensis_2      GGGAGAAGCCCCGGCAGGCGTTAA-CCTGCGTCTTAGGGTTTGCAACCCC
Rana_temporaria          GGGAGAAGCCCCGGCAGGCGTTAA-CCTGCGTCTTGAGGTTTGCAACCCC
```

2001-2050

```
Qualifiers1                .....................CYSTYR.......................
Qualifiers2                C.<<<D...<<<D..<<<<<<AA*<<<<<AA<<<<T........<<<<T.
Xenopus_laevis             GCATGTCAAACACCGCA--GGCTTGATAAGAAGAGGA-CTTGAACCTCTG
Bufo_andrewsi              GCGTGT--GACACCCCA-GGGCCTGATAAGAGGAGGA-CTCTAACCTCCC
Rana_limnocharis           ACGTGGT-AACACCCCA-GAGCCTGGTAAAGAGAGGA-CTTGAACCTCTG
Polypedates_leucomystax    ACGTGT--AACACCCCGCGGGCCTGGTAAAGAGAGGG-TTTACACCTCTG
Amolops_hongkongensis      ACATGT--AACACCCCA-GGGCCTGGTAGAGAGAGGA-CTCGCACCTCTG
Rana_tientaiensis          ACGTGTT--ACACCCCA-GGGCCTGGTAAAGAGAGGA-CTTAAACCTCTG
Rana_ridibunda             ACGTGTT-CACACTCCG-GAGCCTGGTAAAGAGAGGG-CTCAAACCTCTG
Rana_nigromaculata         ACGTGCT-AACACCCCA-GGACCTGGTAAAGAGAGGG-CTTAAACCTCTG
Rana_plancyi               ACGTGCT-GACACCCCA-GGACCTGGTAAAGAGAGGG-CTTAAACCTCTG
Rana_catesbeiana           ACGTGTT-AACACCCCA-AGGCCTGGTAAAGAGAGGA-CTCAAACCTCTG
Rana_sylvatica             ACGTGCT-GACACCCCA-GGGCCTGGTAAAGAGAGGA-CTTAAACCTCTG
Rana_warschewitschii       ACGTGGT-AACACCCCA-AGGCCTGGTAAAGAGAGGA-CTCAAACCTCTG
Rana_areolata              ACGTGTT-GACACCCCA-GAACCTGGTAAAGAGAGGG-CTCAAACCTCTG
Rana_pipiens               ACGTGTT-AACACTCCA-GGACCTGGTAAAGAGAGGG-CTTAAACCTCTG
Rana_pretiosa              ACGTGCT-AACACCCCA-AGGCCTGGTAAAGAGAGGG-CTCAAACCTCTG
Rana_boylii                ACATGCT-AACACCCCA-GGGCCTGGTAAAGAGAGGG-CTCAAACCTCTG
Rana_aurora                ACGTGCT-AACACCCCA-AGGCCTGGTAAGGAGAGGG-CTCAAACCTCTG
Rana_cascadae              ACGTGCT-GACACCCCA-AGGCCTGGTAAAGAGAGGG-CTCAAACCTCTG
Rana_muscosa_1             ATGTGCT-GACACCCCA-AGGCCTGGTAAAGAGAGGG-CTCAAACCTCTG
Rana_muscosa_2             ATGTGCT-AACACCCCA-AGGCCTGGTAAAGAGAGGGGCTCAAACCTCTG
Rana_macronemis            ACATGAT-AACACCACA-GAGCCTGGTAAAGAGAGGG-CTCAAACCTCTG
Rana_chaochiaoensis        ACATGAT-AACACCCCA-AGGCCTGGTAAAGAGAGGG-CTCAAACCTCTG
Rana_japonicus             ACGTGAT-AACACCCCA-AGGCCTGGTAAAGAGAGGG-CTTAAACCTCTG
Rana_amurensis             ACGTGAT-AACACCCCA-GAGCCTGGTAAAGAGAGGA-TTCAAACCTCTG
Rana_chensinensis_1        ACGTGAT-AATACCCCA-GGGCCTGGTAAAGAGAGGG-CTCAAACCTCTG
Rana_chensinensis_2        ACGTGAT-AATACCCCA-GGGCCTGGTAAAGAGAGGG-CTCAAACCTCTG
Rana_temporaria            ACATGAT-AACACCACA-AGGCCTGGTAAAGAGAGGA-CTTAAACCTCTG
```

2051-2100

```
Qualifiers1              .....................................TYR..COI.
Qualifiers2              ...<<<AC..COD..<<<AC.<<<D......<<<D..<<<<<AA..1..1
Xenopus_laevis           TACACGGAGCTACAATCCGCCGCCTATTACTCGGCCACCTTACCTGATGG
Bufo_andrewsi            TAAGTGGAGCTACAAGCCACCGCCTTACCCTCGGCCATCTTACCC-GTGA
Rana_limnocharis         TGATTGGGGCTACAACCCACCACCT---ACTCGGCCACTTCACCT-GTGA
Polypedates_leucomystax  TCCTTGGGGCTACAATCCACCGCCT---ACTCGGCCACTTTACCT-GTGA
Amolops_hongkongensis    TCTTCGGGGCTACAAACCGCCACCT---GCTCGGCCACTCTACCT-GTGA
Rana_tientaiensis        TCTTCGGGGCTACAACCCGCCGCCT---GCTCGGCCACTTTACCT-GTGA
Rana_ridibunda           TCTTCGGGGCTACAACCCGCCGCCT---ACTCGGCCACTTTACCT-GTGA
Rana_nigromaculata       TCTTCGGGGCTACAACCCGCCACCT---GCTCGGCCACTTTACCT-GTGA
Rana_plancyi             TCTTCGGGGCTACAACCCGCCACCT---GCTCGGCCACTTTACCT-GTGA
Rana_catesbeiana         TCTTCGAAGCTACAATTCGCCGCCT---GCTCGGCCACTTTACCT-GTGA
Rana_sylvatica           TACTCGAAGCTACAATTCGCCACCT---ACTCGGCCACTTTACCT-GTGA
Rana_warschewitschii     TGCTCGAAGCTACAATTCGCCGCCT---ACTCGGCCACTTTACCT-GTGA
Rana_areolata            TCCTCGAAGCTACAATTCGCCACCT---GCTCGGCCACTTTACCT-GTGA
Rana_pipiens             TCCTCGAAGCTACAATTCGCCACCT---ACTCGGCCACTTTACCT-GTGA
Rana_pretiosa            TCCTCGGAGCTACAATCCGCCACCT---GCTCGGCCACTTTACCT-GTGA
Rana_boylii              TCCTCGGAGCTACAATCCGCCGCCT---GCTCGGCCACTTTACCT-GTGA
Rana_aurora              TCTTCGGAGCTACAATCCGCCGCCT---GCTCGGCCACTTTACCT-GTGA
Rana_cascadae            TCCTCGGAGCTACAATCCGCCACCT---GCTCGGCCACTTTACCT-GTGA
Rana_muscosa_1           TCCTCGGAGCTACAATCCGCCGCCT---GCTCGGCCACTTTACCT-GTGA
Rana_muscosa_2           TCCTCGGAGCTACAATCCGCCACCT---GCTCGGCCACTTTACCT-GTGA
Rana_macronemis          TCTTCGGAGCTACAATCCGCCGCCT---GCTCGGCCACTCTACCC-GTGA
Rana_chaochiaoensis      TCTTCGGAGCTACAATCCGCCGCCT---GCTCGACCACTTTACCT-GTAA
Rana_japonicus           TCTTCGGAGCTACAATCCGCCGCCT---GCTCGACCACTTTACCT-GTGA
Rana_amurensis           TCTTCGGAGCTACAATCCGCCGCCT---GCTCGGCCACTTTACCT-GTGT
Rana_chensinensis_1      TCTTCGGAGCTACAATCCGCCGCCT---GCTCGGCCACTTTACCT-GTGA
Rana_chensinensis_2      TCTTCGGAGCTACAATCCGCCGCCT---GCTCGGCCACTTTACCT-GTGA
Rana_temporaria          TCTTCGGAGCTACAATCCGCCGCCT---GCTCGGCCACTTTACCC-GTGA
```

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2101-2126
Qualifiers1              .....................COI
Qualifiers2              ..1..1..1..1..1..1..1..1..
Xenopus_laevis           CAATTACTCGTTGATTATTCTCAACA
Bufo_andrewsi            TAATCACCCGCTGACTATTTTCAACC
Rana_limnocharis         TATTTTCTCGCTGACTCTTTTCTACC
Polypedates_leucomystax  TATTAACCCGCTGATTTTTCTCTACC
Amolops_hongkongensis    TACTAACTCGTTGATTTTTTTCTACT
Rana_tientaiensis        TACTTACACGTTGATTCTTTTCCACA
Rana_ridibunda           TATTTACCCGCTGATTTTTTTCTACA
Rana_nigromaculata       TATTTACCCGTTGATTCTTCTCTACT
Rana_plancyi             TATTTACCCGTTGATTCTTCTCTACT
Rana_catesbeiana         TATTCACCCGTTGATTTTTCTCTACT
Rana_sylvatica           TATTCACCCGTTGATTTTTCTCTACC
Rana_warschewitschii     TATTTACTCGCTGGGTTCTTTCTACA
Rana_areolata            TATACACCCGCTGACTTTTCTCTACC
Rana_pipiens             TATATGCCCGCTGACTCTTTTCTACT
Rana_pretiosa            TATTCACCCGCTGATTCTTCTCTACA
Rana_boylii              TATTAACCCGCTGATTCTTCTCTACT
Rana_aurora              TATTCACCCGCTGATTCTTTTCTACT
Rana_cascadae            TATTCACCCGCTGATTCTTCTCTACT
Rana_muscosa_1           TATTCACCCGCTGATTCTTCTCTACT
Rana_muscosa_2           TATTCACCCGCTGATTCTTCTCTACT
Rana_macronemis          TATTCACCCGCTGATTTTTCTCTACT
Rana_chaochiaoensis      TACTTGCCCGCTGATTCTTTTCTACT
Rana_japonicus           TACTCACCCGCTGGTTTTTTTCTACT
Rana_amurensis           TATTTACCCGCTGATTTTTCTCAACC
Rana_chensinensis_1      TATTCACCCGCTGATTTTTCTCTACC
Rana_chensinensis_2      TATTCACCCGCTGATTTTTCTCTACC
Rana_temporaria          TATTCACCCGCTGATTTTTCTCTACT
```

Appendix C

Maximum-likelihood (ML) analyses also were performed (see the following two trees). Simultaneous optimization of ML parameters and phylogenetic hypotheses for these data sets was computationally impractical. To reduce computation time, ModelTest v3.6 (Posada and Crandall, 1998) was used to find the best fitting model of sequence evolution for the tree from unweighted parsimony analysis of these molecular data. The Akaike information criterion (AIC) was used as our model-selection criterion rather than hierarchical likelihood-ratio tests (hLRTs). Posada and Buckley (2004) and Diego (2004) recommend the former approach as it avoids the problem of comparing multiple nested or nonnested models simultaneously, can account for model selection uncertainty, and permits model-averaged inference. The best fitting model parameters were fixed and then used in 25 heuristic searches with random addition of taxa to find the overall best likelihood topology. Bootstrap resampling under these conditions was computationally impractical, and two alternative search conditions were applied for 100 bootstrap pseudoreplicates. Starting trees were obtained using neighbor joining and the reconnection limit was set to eight for TBR branch-swapping.

A single optimal likelihood tree for the Scincidae is found with a negative log likelihood of 25015.51 using a GTR+I+G nucleotide substitution model as selected by ModelTest. Model parameters are as follows: a= 0.530; proportion of invariant sites = 0.250; substitution rates R(a) = 0.315, R(b) = 5.968, R(c) = 0.288, R(d) = 0.556, and R(e) = 2.877; and estimated base frequencies A = 0.370, C = 0.351, G = 0.063, and T = 0.217. This topology is compatible with the strict consensus of the three overall most parsimonious trees (Fig. 1) except for the relative positions of *E. calliocephalus, E. inexpectatus,* and *E. obsoletus.* A single optimal likelihood tree for the Ranidae is found with a negative log likelihood of 22513.67 using a TrN+I+G nucleotide substitution model with the following parameters: a= 0.545; proportion of invariant sites = 0.298; substitution rates R(a) = 1, R(b) = 14.191, R(c) = 1, R(d) = 1, and R(e) = 8.566; and estimated base frequencies A = 0.318, C = 0.305, G = 0.090, and T = 0.286. This topology is compatible with the strict consensus of the three overall most parsimonious trees (Fig. 1 of main text) except for the relative positions of *Amolops hongkongensis,*

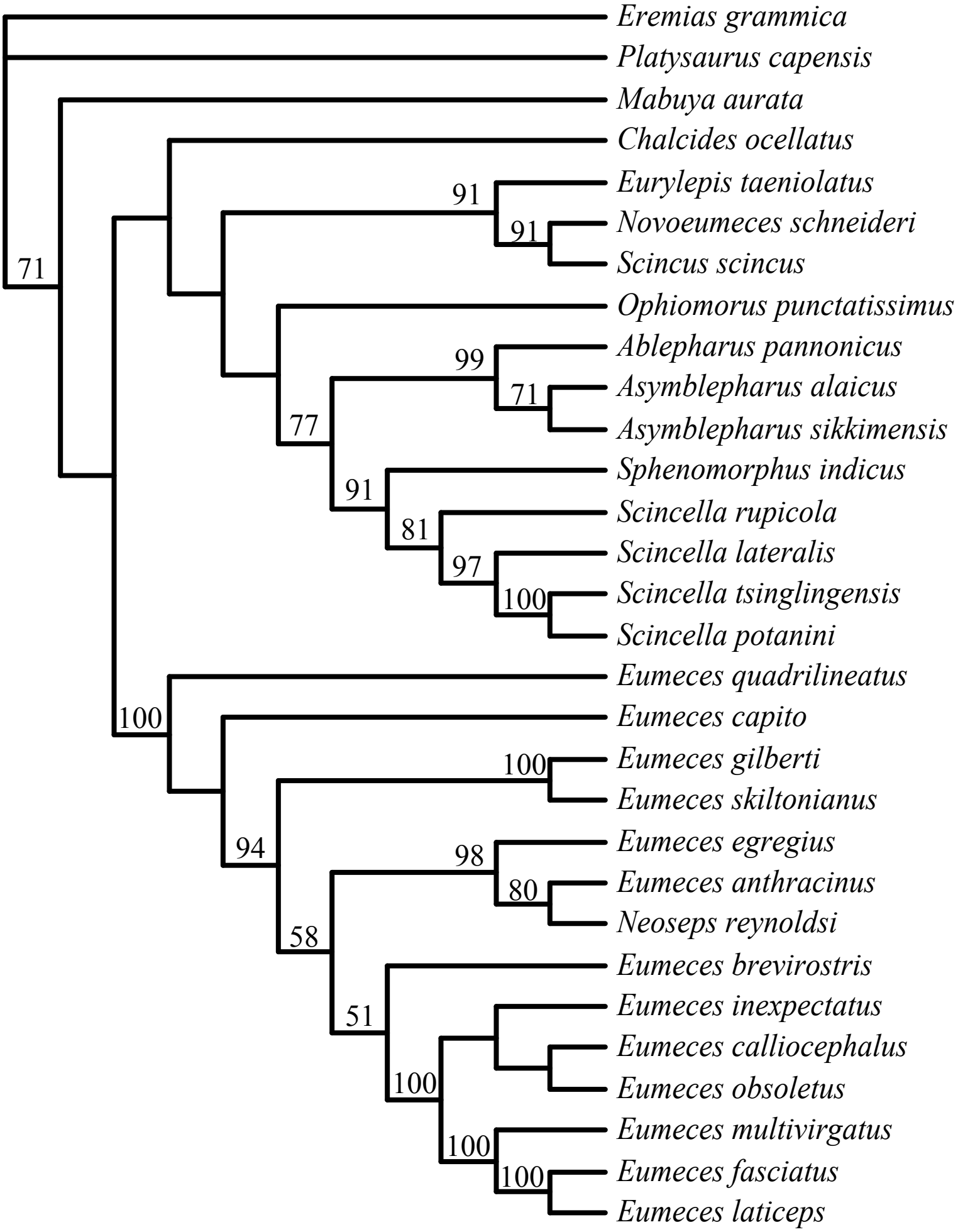
Rana tientaiensis, *R. boylii*, *R. pretiosa*, and *R. amurensis*. All nodes that differ between MP and ML analyses are poorly supported in each analysis.

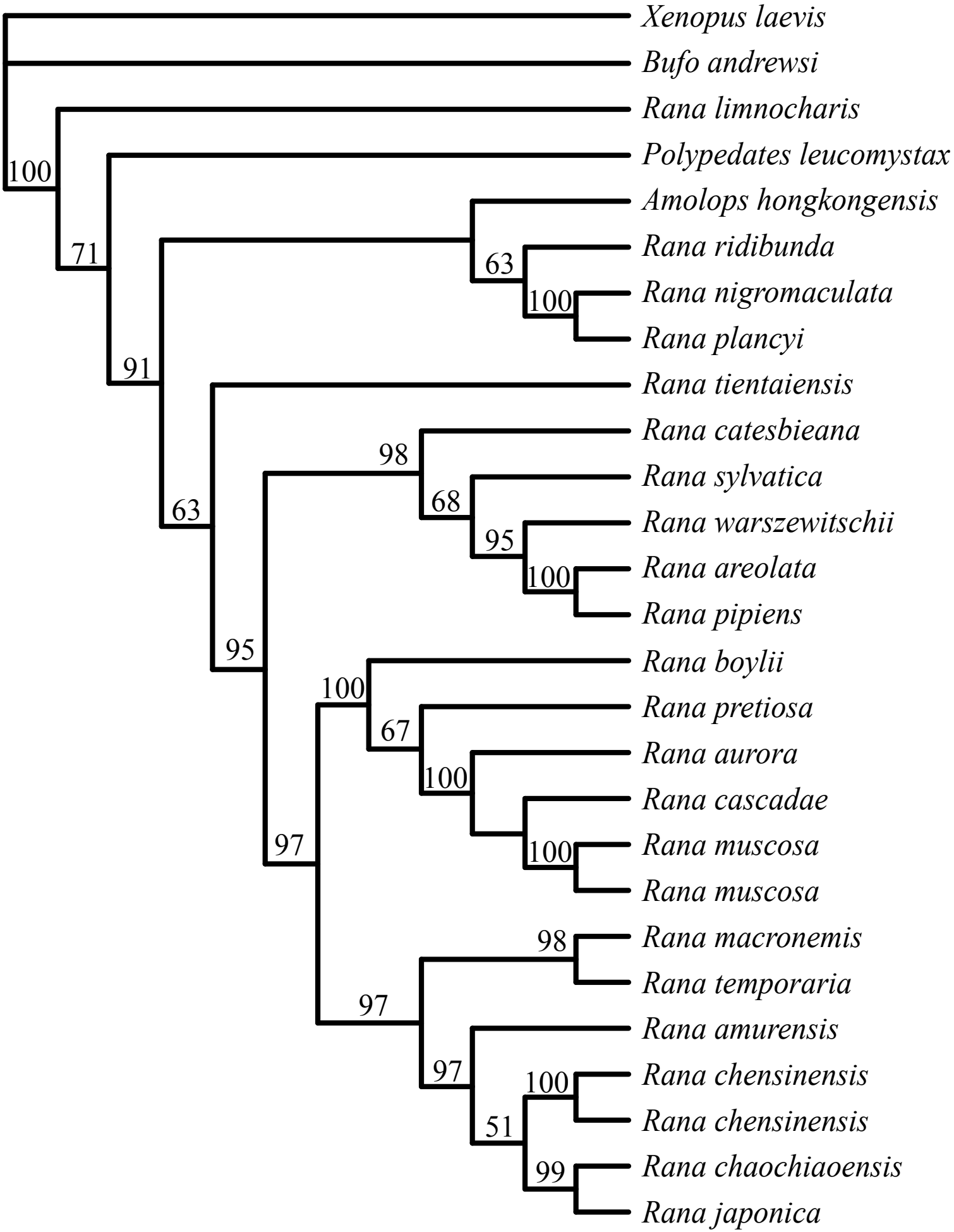
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Eremias grammica
Platysaurus capensis
Mabuya aurata
Chalcides ocellatus
Eurylepis taeniolatus
Novoeumeces schneideri
Scincus scincus
Ophiomorus punctatissimus
Ablepharus pannonicus
Asymblepharus alaicus
Asymblepharus sikkimensis
Sphenomorphus indicus
Scincella rupicola
Scincella lateralis
Scincella tsinglingensis
Scincella potanini
Eumeces quadrilineatus
Eumeces capito
Eumeces gilberti
Eumeces skiltonianus
Eumeces egregius
Eumeces anthracinus
Neoseps reynoldsi
Eumeces brevirostris
Eumeces inexpectatus
Eumeces calliocephalus
Eumeces obsoletus
Eumeces multivirgatus
Eumeces fasciatus
Eumeces laticeps
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58
51
100
100
100


Xenopus laevis
Bufo andrewsi
Rana limnocharis
Polypedates leucomystax
Amolops hongkongensis
Rana ridibunda
Rana nigromaculata
Rana plancyi
Rana tientaiensis
Rana catesbieana
Rana sylvatica
Rana warszewitschii
Rana areolata
Rana pipiens
Rana boylii
Rana pretiosa
Rana aurora
Rana cascadae
Rana muscosa
Rana muscosa
Rana macronemis
Rana temporaria
Rana amurensis
Rana chensinensis
Rana chensinensis
Rana chaochiaoensis
Rana japonica
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