Table S3. Species of anurans and outgroups used for phylogenetic inference and analysis of the metabolic parameters in Anura. Data include accession numbers, metabolic measurements, and references of physiological data.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Family** | **Genus** | **species** | **1216S** | VO2RES (ml/h) 20°C | Mass (g) | VO2RES (ml/h) 25°C | Mass  (g) | VO2EX (ml/h) 20°C | Mass  (g) | VO2EX (ml/h) 25°C | Mass  (g) | Ref. |
| Lepidosirenidae | *Lepidosiren* | *paradoxa* | NC003342 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Phasianidae | *Gallus* | *gallus* | AP003319 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Hominidae | *Homo* | *sapiens* | AC000021 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Typhlonectidae | *Typhlonectes* | *natans* | NC002471 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Caeciliidae | *Gegeneophis* | *ramaswamii* | NC006301 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Rhinatrematidae | *Rhinatrema* | *bivittatum* | NC006303 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Hynobiidae | *Hynobius* | *formosanus* | NC008084 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Plethodontidae | *Eurycea* | *bislineata* | AY728217 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Ambystomatidae | *Ambystoma* | *mexicanum* | NC005797 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Alytidae | *Alytes* | *obstetricans* | \* | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Alytidae | *Discoglossus* | *galganoi* | NC006690 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Alytidae | *Discoglossus* | *pictus* | \* | 1.142 | 30.71 | -- | -- | 8.166 | 30.70 | -- | -- | (1) |
| Arthroleptidae | *Arthroleptis* | *variabilis* | DQ283081 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Arthroleptidae | *Trichobatrachus* | *robustus* | AY843773 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Batrachophrynidae | *Caudiverbera* | *caudiverbera* | DQ283439 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Bombinatoridae | *Bombina* | *orientalis* | AY957562 | 0.149 | 2.62 | 0.340 | 3.79 | 1.230 | 2.60 | -- | -- | (1) (2) |
| Brevicipitidae | *Callulina* | *kreffti* | AY326068 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Bufonidae | *Atelopus* | *peruensis* | AY819329 DQ158419 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Bufonidae | *Bufo* | *alvarius* | AY325984 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Bufonidae | *Bufo* | *americanus* | AY680206 | 1.377 | 27.00 | 2.937 | 40.40 | 28.053 | 27.00 | 34.098 | 40.40 | (1) |
| Bufonidae | *Bufo* | *bankorensis* | -- | -- | -- | 2.953 | 34.10 | -- | -- | -- | -- | (3) |
| Bufonidae | *Bufo* | *boreas* | AY325983 | 1.303 | 40.20 | 2.640 | 27.30 | 31.265 | 47.30 | 44.651 | 47.30 | (1) |
| Bufonidae | *Bufo* | *bufo* | AY325988 | 4.901 | 29.00 | 4.585 | 28.59 | -- | -- | -- | -- | (1) |
| Bufonidae | *Bufo* | *calamita* | -- | 0.511 | 8.67 | -- | -- | 6.777 | 8.70 | -- | -- | (1) |

Table S3 (Cont.). Species of anurans and outgroups used for phylogenetic inference and analysis of the metabolic parameters in Anura. Data include accession numbers, metabolic measurements, and references of physiological data.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Family** | **Genus** | **species** | **1216S** | VO2RES (ml/h) 20°C | Mass (g) | VO2RES (ml/h) 25°C | Mass  (g) | VO2EX (ml/h) 20°C | Mass  (g) | VO2EX (ml/h) 25°C | Mass  (g) | Ref. |
| Bufonidae | *Bufo* | *cognatus* | AY680231 | 1.290 | 63.80 | 1.930 | 67.50 | 42.280 | 28.00 | 51.761 | 27.10 | (2) |
| Bufonidae | *Bufo* | *haematiticus* | AY680270 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Bufonidae | *Bufo* | *marinus* | AY325994 | 2.609 | 101.00 | 3.170 | 101.00 | 156.100 | 223.00 | 380.380 | 266.00 | (1) |
| Bufonidae | *Bufo* | *terrestris* | AY680222 | 15.100 | 102.00 | 2.243 | 19.80 | -- | -- | -- | -- | (1) |
| Bufonidae | *Bufo* | *viridis* | -- | 0.875 | 35.00 | -- | -- | -- | -- | -- | -- | (1) |
| Bufonidae | *Bufo* | *woodhousii* | AY680219 | 4.413 | 64.80 | 2.235 | 56.30 | 80.230 | 71.00 | 85.910 | 71.00 | (1) |
| Bufonidae | *Dendrophryniscus* | *minutus* | AY843582 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Bufonidae | *Melanophryniscus* | *stelzneri* | AY325999 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Centrolenidae | *Centrolene* | *prosoblepon* | AY843574 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Ceratobatrachidae | *Ceratobatrachus* | *guentheri* | DQ283198 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Ceratobatrachidae | *Ingerana* | *baluensis* | DQ283142 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Ceratophryidae | *Atelognathus* | *patagonicus* | AY843571 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Ceratophryidae | *Ceratophrys* | *calcarata* | -- | -- | -- | 2.967 | 55.50 | -- | -- | -- | -- | (1) |
| Ceratophryidae | *Ceratophrys* | *cranwelli* | AY843575 | -- | -- | 0.410 | 8.55 | -- | -- | -- | -- | (4) |
| Ceratophryidae | *Ceratophrys* | *ornata* | AY326013 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Ceratophryidae | *Lepidobatrachus* | *llanensis* | AY326019  (as sp.) | -- | -- | 8.585 | 88.50 | -- | -- | -- | -- | (1) |
| Ceratophryidae | *Telmatobius* | *niger* | AY326015 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Cycloramphidae | *Alsodes* | *monticola* | AY326016 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Cycloramphidae | *Odontophrynus* | *americanus* | AY843704 | 0.549 | 15.24 | -- | -- | 8.786 | 15.20 | -- | -- | (1) |
| Cycloramphidae | *Rhinoderma* | *darwinii* | DQ283324 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Cycloramphidae | *Thoropa* | *miliaris* | DQ283331 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Dendrobatidae | *Allobates* | *femoralis* | AY364543 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Dendrobatidae | *Allobates* | *talamancae* | EU342516 | 0.053 | 0.87 | -- | -- | 0.255 | 0.87 | -- | -- | (5) |
| Dendrobatidae | *Hyloxalus* | *awa* | AY364544 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Dendrobatidae | *Colostethus* | *fugax* | AY364547 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Dendrobatidae | *Colostethus* | *panamansis* | EU342599 | 0.137 | 1.57 | 0.213 | 1.53 | 1.131 | 1.52 | 1.394 | 1.52 | (1) |

Table S3 (Cont.). Species of anurans and outgroups used for phylogenetic inference and analysis of the metabolic parameters in Anura. Data include accession numbers, metabolic measurements, and references of physiological data.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Family** | **Genus** | **species** | **1216S** | VO2RES (ml/h) 20°C | Mass (g) | VO2RES (ml/h) 25°C | Mass  (g) | VO2EX (ml/h) 20°C | Mass  (g) | VO2EX (ml/h) 25°C | Mass  (g) | Ref. |
| Dendrobatidae | *Dendrobates* | *auratus* | AY326036 | 0.142 | 2.09 | 0.159 | 1.77 | 1.773 | 1.95 | 2.036 | 1.50 | (1) |
| Dendrobatidae | *Hyloxalus* | *subpunctatus* | EU342693 | 0.089 | 0.65 | -- | -- | 0.257 | 0.65 | -- | -- | (5) |
| Dendrobatidae | *Mannophryne* | *trinitatis* | EU342504 | -- | -- | 0.201 | 1.00 | -- | -- | -- | -- | (1) |
| Dendrobatidae | *Phyllobates* | *vittatus* | \* | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Dendrobatidae | *Silverstoneia* | *nubicola* | EU342579 | 0.031 | 0.28 | 0.044 | 0.27 | 0.143 | 0.25 | 0.164 | 0.25 | (1) |
| Dicroglossidae | *Fejervarya* | *nicobariensis* | AY326062 | -- | -- | 0.256 | 2.60 | -- | -- | -- | -- | (1) |
| Dicroglossidae | *Hoplobatrachus* | *occipitalis* | DQ283059 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Dicroglossidae | *Limnonectes* | *magnus* | AY313706 | 1.402 | 34.20 | -- | -- | -- | -- | -- | -- | (1) |
| Dicroglossidae | *Occidozyga* | *martensii* | -- | 0.524 | 9.30 | 0.887 | 9.30 | -- | -- | -- | -- | (1) |
| Eleutherodactylidae | *Eleutherodactylus* | *coqui* | EF493539 | 0.179 | 4.06 | -- | -- | 1.193 | 4.10 | -- | -- | (1) |
| Heleophrynidae | *Heleophryne* | *purcelli* | AY326072 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Hemisotidae | *Hemisus* | *marmoratum* | AY326070 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Hylidae | *Acris* | *crepitans* | EF566971 | -- | -- | 0.329 | 1.86 | -- | -- | -- | -- | (1) |
| Hylidae | *Agalychnis* | *callidryas* | AY843563 | 0.337 | 5.65 | -- | -- | 2.993 | 5.70 | -- | -- | (1) |
| Hylidae | *Cyclorana* | *maini* | -- | -- | -- | 0.342 | 5.10 | -- | -- | 7.634 | 5.11 | (1) |
| Hylidae | *Cyclorana* | *platycephala* | -- | -- | -- | 1.007 | 21.90 | -- | -- | -- | -- | (6) |
| Hylidae | *Dendropsophus* | *labialis* | AY843635 | 0.730 | 7.45 | -- | -- | 3.129 | 7.45 | -- | -- | (5) |
| Hylidae | *Dendropsophus* | *microcephalus* | EF566945 | 0.080 | 0.67 | -- | -- | 0.311 | 0.67 | -- | -- | (5) |
| Hylidae | *Hyla* | *arenicolor* | AY843603 | 0.300 | 3.37 | -- | -- | 2.839 | 3.40 | -- | -- | (1) |
| Hylidae | *Hyla* | *chrysoscelis* | EF566948 | 0.437 | 3.90 | -- | -- | 5.382 | 5.47 | -- | -- | (1) |
| Hylidae | *Hyla* | *cinerea* | AY549327 | 0.560 | 3.82 | 0.459 | 4.50 | -- | -- | -- | -- | (1) |
| Hylidae | *Hyla* | *gratiosa* | EF566966 | -- | -- | 1.443 | 9.80 | -- | -- | -- | -- | (1) |
| Hylidae | *Hyla* | *versicolor* | EF566950 | 0.603 | 6.09 | 1.525 | 7.60 | 6.222 | 6.10 | -- | -- | (1) |
| Hylidae | *Hypsiboas* | *boans* | AY843610 | -- | -- | 3.933 | 41.40 | -- | -- | -- | -- | (1) |
| Hylidae | *Litoria* | *caerulea* | AY843692 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Hylidae | *Osteopilus* | *septentrionalis* | AY843712 | 0.330 | 4.98 | -- | -- | 3.260 | 5.00 | -- | -- | (1) |

Table S3 (Cont.). Species of anurans and outgroups used for phylogenetic inference and analysis of the metabolic parameters in Anura. Data include accession numbers, metabolic measurements, and references of physiological data.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Family** | **Genus** | **species** | **1216S** | VO2RES (ml/h) 20°C | Mass (g) | VO2RES (ml/h) 25°C | Mass  (g) | VO2EX (ml/h) 20°C | Mass  (g) | VO2EX (ml/h) 25°C | Mass  (g) | Ref. |
| Hylidae | *Phyllomedusa* | *sauvagei* | AY326045  (as *tomopterna*) | -- | -- | 1.803 | 17.50 | -- | -- | -- | -- | (1) |
| Hylidae | *Pseudacris* | *crucifer* | AY291100 | 0.144 | 1.30 | -- | -- | 1.356 | 1.30 | -- | -- | (1) |
| Hylidae | *Pseudacris* | *nigrita* | AY291078 | -- | -- | 0.162 | 1.00 | -- | -- | -- | -- | (1) |
| Hylidae | *Pseudacris* | *regilla* | AY291112 | 0.166 | 2.76 | -- | -- | 0.745 | 2.76 | -- | -- | (1) |
| Hylidae | *Pseudacris* | *triseriata* | EF472157 | 0.269 | 1.13 | 0.112 | 0.94 |  |  | -- | -- | (1) |
| Hylidae | *Pseudis* | *paradoxa* | AY326032 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Hylidae | *Smilisca* | *fodiens* | AY843743 | 0.514 | 15.13 | -- | -- | 5.995 | 15.10 | -- | -- | (1) |
| Hylidae | *Trachycephalus* | *venulosa* | AY326048 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Hyperoliidae | *Hyperolius* | *marmoratus* | AY326069 | 0.067 | 1.00 | 0.361 | 1.39 | -- | -- | -- | -- | (7) |
| Hyperoliidae | *Hyperolius* | *parallelus* | -- | 0.077 | 1.00 | -- | -- | -- | -- | -- | -- | (1) |
| Hyperoliidae | *Hyperolius* | *tuberilinguis* | -- | 0.068 | 1.00 | -- | -- | -- | -- | -- | -- | (1) |
| Hyperoliidae | *Hyperolius* | *viridiflavus* | FJ151059  (as *castaneus*) | 0.083 | 0.88 | 0.458 | 1.58 | 0.663 | 0.90 | -- | -- | (7) |
| Hyperoliidae | *Kassina* | *maculata* | -- | 0.280 | 5.80 | 0.370 | 5.67 | -- | -- | -- | -- | (2) |
| Hyperoliidae | *Kassina* | *senegalensis* | FJ151067 | 0.228 | 3.02 | -- | -- | 2.481 | 3.00 | -- | -- | (1) |
| Hyperoliidae | *Kassina* | *weali* | -- | 0.318 | 6.25 | -- | -- | 4.120 | 6.30 | -- | -- | (1) |
| Leiopelmatidae | *Ascaphus* | *truei* | AJ871087 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Leiopelmatidae | *Leiopelma* | *archeyi* | \* | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Leptodactylidae | *Adenomera* | *andreae* | AY364538 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Leptodactylidae | *Edalorhina* | *perezi* | AY843585 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Leptodactylidae | *Engystomops* | *pustulosus* | DQ337241 | -- | -- | 0.260 | 1.72 | -- | -- | 3.349 | 1.84 | (1) |
| Leptodactylidae | *Leptodactylus* | *fuscus* | DQ283404 | -- | -- | 0.587 | 5.10 | -- | -- | -- | -- | (1) |
| Leptodactylidae | *Leptodactylus* | *ocellatus* | DQ158417 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Leptodactylidae | *Leptodactylus* | *petadactylus* | AY326017 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Leptodactylidae | *Lithodytes* | *lineatus* | AY843690 | -- | -- | -- | -- | -- | -- | -- | -- |  |

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|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Family** | **Genus** | **species** | **1216S** | VO2RES (ml/h) 20°C | Mass (g) | VO2RES (ml/h) 25°C | Mass  (g) | VO2EX (ml/h) 20°C | Mass  (g) | VO2EX (ml/h) 25°C | Mass  (g) | Ref. |
| Leptodactylidae | *Pleurodema* | *brachyops* | AY843733 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Leptodactylidae | *Pseudopaludicola* | *falcipes* | AY843741 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Limnodynastidae | *Limnodynastes* | *salminii* | AY326071 | -- | -- | 0.573 | 6.82 | -- | -- | -- | -- | (6) |
| Mantellidae | *Aglyptodactylus* | *madagascariensis* | DQ283056 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Mantellidae | *Boophis* | *tephraeomystax* | DQ283032 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Mantellidae | *Laliostoma* | *labrosum* | DQ283057 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Mantellidae | *Mantella* | *nigricans* | DQ283034 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Megophryidae | *Megophrys* | *montana* | \* | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Microhylidae | *Dyscophus* | *antonguilli* | EU341120 | 0.750 | 41.60 | 1.130 | 40.70 | -- | -- | -- | -- | (2) |
| Microhylidae | *Elachistocleis* | *ovalis* | DQ283405 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Microhylidae | *Gastrophryne* | *olivacea* | AY326066 | 0.103 | 1.94 | -- | -- | 1.547 | 1.90 | -- | -- | (1) |
| Microhylidae | *Kaloula* | *pulchra* | NC006405 | 0.890 | 30.66 | -- | -- | 21.367 | 30.70 | -- | -- | (1) |
| Microhylidae | *Scaphiophryne* | *marmorata* | AY843751 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Myobatrachidae | *Crinia* | *parinsignifera* | EU443855 | 0.117 | 0.63 | 0.177 | 0.67 | -- | -- | -- | -- | (1) |
| Myobatrachidae | *Crinia* | *signifera* | EU443926 | 0.131 | 0.62 | 0.149 | 0.62 | -- | -- | -- | -- | (1) |
| Myobatrachidae | *Heleioporus* | *albopunctatus* | -- | -- | -- | 1.356 | 33.90 | -- | -- | 12.577 | 33.90 | (6) |
| Myobatrachidae | *Neobatrachus* | *centralis* | -- | -- | -- | 0.801 | 8.90 | -- | -- | -- | -- | (1) |
| Myobatrachidae | *Neobatrachus* | *fulvus* | -- | -- | -- | 1.154 | 11.90 | -- | -- | -- | -- | (1) |
| Myobatrachidae | *Neobatrachus* | *kunapalari* | AY843700  (as *sudelli*) | -- | -- | 1.519 | 21.10 | -- | -- | 14.953 | 21.12 | (6) |
| Myobatrachidae | *Neobatrachus* | *pelobatoides* | -- | -- | -- | 1.040 | 8.00 | -- | -- | 6.593 | 8.03 | (8) |
| Myobatrachidae | *Neobatrachus* | *sutor* | -- | -- | -- | 0.599 | 9.50 | -- | -- | 12.780 | 9.53 | (1) |
| Myobatrachidae | *Neobatrachus* | *wilsmorei* | -- | -- | -- | 1.515 | 18.70 | -- | -- | -- | -- | (1) |
| Myobatrachidae | *Notaden* | *nichollsi* | -- | -- | -- | 1.944 | 27.00 | -- | -- | -- | -- | (6) |
| Pelobatidae | *Pelobates* | *cultripes* | NC008144 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Pelodytidae | *Pelodytes* | *punctatus* | \* | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Phrynobatrachidae | *Phrynobatrachus* | *natalensis* | DQ283414 | -- | -- | -- | -- | -- | -- | -- | -- |  |

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|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Family** | **Genus** | **species** | **1216S** | VO2RES (ml/h) 20°C | Mass (g) | VO2RES (ml/h) 25°C | Mass  (g) | VO2EX (ml/h) 20°C | Mass  (g) | VO2EX (ml/h) 25°C | Mass  (g) | Ref. |
| Pipidae | *Hymenochirus* | *boettgeri* | AY581623 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Pipidae | *Pipa* | *pipa* | \* | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Pipidae | *Silurana* | *tropicalis* | NC006839 | 2.530 | 55.00 | 3.526 | 41.00 | -- | -- | 27.963 | 23.90 | (1) |
| Pyxicephalidae | *Afrana* | *fuscigula* | DQ283069 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Pyxicephalidae | *Pyxicephalus* | *adspersus* | -- | 14.220 | 562.30 | 18.500 | 500.00 | 344.000 | 400.00 | -- | -- | (1, 6) |
| Pyxicephalidae | *Strongylopus* | *grayii* | DQ283068 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Ranidae | *Conraua* | *goliath* | DQ283132 | -- | -- | 18.860 | 251.00 | -- | -- | -- | -- | (1) |
| Ranidae | *Fejervarya* | *cancrivora* | -- | 1.041 | 20.45 | 1.577 | 20.45 | -- | -- | -- | -- | (1) |
| Ranidae | *Rana* | *arvalis* | -- | 2.887 | 17.00 | 4.769 | 17.00 | -- | -- | -- | -- | (1) |
| Ranidae | *Rana* | *aurora* | DQ283189 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Ranidae | *Rana* | *blythi* | -- | -- | -- | 4.373 | 88.70 | -- | -- | -- | -- | (1) |
| Ranidae | *Rana* | *catesbeiana* | DQ283257 | 5.614 | 228.20 | 8.650 | 292.00 | 21.320 | 26.00 | -- | -- | (1, 2) |
| Ranidae | *Rana* | *chalconota* | DQ283139 | -- | -- | 0.391 | 4.10 | -- | -- | -- | -- | (1) |
| Ranidae | *Rana* | *clamitans* | DQ283185 | -- | -- | 2.701 | 32.50 | 1.984 | 4.00 | -- | -- | (1) |
| Ranidae | *Rana* | *erythraea* | DQ283138 | 0.781 | 19.00 | 1.625 | 19.00 | -- | -- | -- | -- | (1) |
| Ranidae | *Rana* | *esculenta* | -- | 4.394 | 45.30 | 4.195 | 50.32 | -- | -- | -- | -- | (1) |
| Ranidae | *Rana* | *galamensis* | DQ283058 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Ranidae | *Rana* | *palmipes* | DQ283384 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Ranidae | *Rana* | *pipiens* | \* | 1.521 | 34.80 | 3.276 | 42.00 | 16.520 | 28.00 | 27.108 | 50.20 | (1) |
| Ranidae | *Rana* | *ridibunda* | -- | 1.120 | 35.00 | -- | -- | -- | -- | -- | -- | (1) |
| Ranidae | *Rana* | *sylvatica* | DQ283387 | 1.098 | 12.67 | 0.648 | 6.00 | 9.462 | 12.70 | -- | -- | (1) |
| Ranidae | *Rana* | *temporaria* | AY326063 | 1.750 | 25.00 | 7.504 | 38.53 | -- | -- | -- | -- | (1) |
| Ranidae | *Rana* | *virgatipes* | -- | -- | -- | 1.015 | 7.00 | -- | -- | -- | -- | (1) |
| Rhacophoridae | *Buergeria* | *buergeri* | AB127977 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Rhacophoridae | *Chirixalus* | *doriae* | DQ283135 | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Rhacophoridae | *Chiromantis* | *petersi* | -- | -- | -- | 0.795 | 11.20 | -- | -- | -- | -- | (1) |

Table S3 (Cont.). Species of anurans and outgroups used for phylogenetic inference and analysis of the metabolic parameters in Anura. Data include accession numbers, metabolic measurements, and references of physiological data.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Family** | **Genus** | **species** | **1216S** | VO2RES (ml/h) 20°C | Mass (g) | VO2RES (ml/h) 25°C | Mass  (g) | VO2EX (ml/h) 20°C | Mass  (g) | VO2EX (ml/h) 25°C | Mass  (g) | Ref. |
| Rhinophrynidae | *Rhinophrynus* | *dorsalis* | \* | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Scaphiopodidae | *Scaphiopus* | *couchii* | DQ283150 | -- | -- | -- | -- | 8.884 | 10.90 | 40.874 | 21.40 | (1) |
| Scaphiopodidae | *Scaphiopus* | *hurteri* | \* | -- | -- | -- | -- | -- | -- | -- | -- |  |
| Strabomantidae | *Pristimantis* | *bogotensis* | -- | 0.120 | 0.91 | -- | -- | 0.332 | 0.91 | -- | -- | (5) |
| Strabomantidae | *Pristimantis* | *diastema* | EU186682 | -- | -- | -- | -- | -- | -- | -- | -- |  |

\* GenBank number for this sequence not available pending publication of another paper.

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