

Supplementary File 2. GenBank details: species, voucher number, sample locality, and accession number of the sequences used for phylogenetic inferences.

Species	Voucher/tissue	Local	12S-tval-16S/[12S, 16S]
<i>Pseudopaludicola matuta</i> sp. nov.	ZUEC 24307	Curvelo, MG (type locality)	MH553453
<i>Pseudopaludicola matuta</i> sp. nov.	ZUEC 24303	Curvelo, MG (type locality)	MH553454
<i>Pseudopaludicola matuta</i> sp. nov.	ZUEC 24308	Curvelo, MG (type locality)	MH553455
<i>Pseudopaludicola matuta</i> sp. nov.	ZUEC 24304	Curvelo, MG (type locality)	MH553456
<i>Pseudopaludicola matuta</i> sp. nov.	ZUEC 24324	Lowland (near Lagoa da Capivara) of the Serra do Cipó National Park, Santana do Riacho, MG	MH553448
<i>Pseudopaludicola matuta</i> sp. nov.	ZUEC 24325	Lowland (near Lagoa da Capivara) of the Serra do Cipó National Park, Santana do Riacho, MG	MH553451
<i>Pseudopaludicola matuta</i> sp. nov.	ZUEC 24326	Lowland (near Lagoa da Capivara) of the Serra do Cipó National Park, Santana do Riacho, MG	MH553452
<i>Pseudopaludicola matuta</i> sp. nov.	ZUEC 24327	Lowland (near Lagoa da Capivara) of the Serra do Cipó National Park, Santana do Riacho, MG	MH553450
<i>Pseudopaludicola matuta</i> sp. nov.	ZUEC 24328	Lowland (near Lagoa da Capivara) of the Serra do Cipó National Park, Santana do Riacho, MG	MH553449
<i>Pseudopaludicola mineira</i>	ZUEC 24330	Highlands of the Serra do Cipó National Park	MH553446
<i>Pseudopaludicola mineira</i>	ZUEC 24331	Highlands of the Serra do Cipó National Park	MH553447

<i>Pseudopaludicola mineira</i>	DZSJRP 6437	Serra do Cipó, MG (type locality)	KJ147025
<i>Pseudopaludicola mineira</i>	ZUEC 14318	Serra do Cipó, MG (type locality)	KJ147026
<i>Pseudopaludicola mineira</i>	ZUEC14317	Serra do Cipó, MG (type locality)	KJ147027
<i>Pseudopaludicola mineira</i>	CFBH-T 15566	Serra do Cipó, MG (type locality)	KU495492
<i>Pseudopaludicola mineira</i>	CFBH-T 15571	Serra do Cipó, MG (type locality)	KU495491
<i>Pseudopaludicola florencei</i>	ZUEC 23513	Andaraí, BA (type locality)	MG025519, MG025525
<i>Pseudopaludicola florencei</i>	ZUEC 23514	Andaraí, BA (type locality)	MG025520, MG025526
<i>Pseudopaludicola florencei</i>	ZUEC 23515	Andaraí, BA (type locality)	MG025521, MG025527
<i>Pseudopaludicola florencei</i>	ZUEC 14190	Andaraí, BA (type locality)	KJ147017
<i>Pseudopaludicola florencei</i>	ZUEC14189	Andaraí, BA (type locality)	KJ147018
<i>Pseudopaludicola pocoto</i>	ZUEC 14192	Andaraí, BA	KJ147016
<i>Pseudopaludicola pocoto</i>	ZUEC 23506	Pico das Almas, Rio de Contas, BA	MG025522, MG025528
<i>Pseudopaludicola pocoto</i>	ZUEC 23508	Pico das Almas, Rio de Contas, BA	MG025523, MG025529
<i>Pseudopaludicola pocoto</i>	ZUEC 23509	Pico das Almas, Rio de Contas, BA	MG025524, MG025530
<i>Pseudopaludicola pocoto</i>	3660 MSFH	Salgueiro, PE	MG025531 [16S]
<i>Pseudopaludicola pocoto</i>	ASF	Salgueiro, PE	MG025532 [16S]
<i>Pseudopaludicola pocoto</i>	3669 MSFH	Cajazeiras, PB	MG025533 [16S]
<i>Pseudopaludicola pocoto</i>	SMRP 440.1	Novas Russas, CE	KJ147035

<i>Pseudopaludicola pocoto</i>	SMRP 440.2	Novas Russas, CE	KJ147036
<i>Pseudopaludicola restinga</i>	CFBH-T 6678	Vitória, ES	MG825764
<i>Pseudopaludicola restinga</i>	CFBH-T 6679	Vitória, ES	MG825766
<i>Pseudopaludicola restinga</i>	CFBH-T 19566	Presidente Kennedy, ES	MG825767
<i>Pseudopaludicola motorzinho</i>	ZUEC 13931	Poconé, MT	KJ147039
<i>Pseudopaludicola motorzinho</i>	ZUEC 13930	Poconé, MT	KJ147040
<i>Pseudopaludicola motorzinho</i>	ZUEC 13929	Poconé, MT	KJ147041
<i>Pseudopaludicola motorzinho</i>	ZUEC 13928	Poconé, MT	KJ146992
<i>Pseudopaludicola murundu</i>	CFBH-T 1467	Rio Claro, SP	KJ147008
<i>Pseudopaludicola murundu</i>	ZUEC 14288	Rio Claro, SP	KJ147030
<i>Pseudopaludicola murundu</i>	ZUEC 14284	Rio Claro, SP	KJ147031
<i>Pseudopaludicola murundu</i>	ZUEC 14286	Rio Claro, SP	KJ147032
<i>Pseudopaludicola murundu</i>	ZUEC 19556	Serra da Moeda, MG	KJ147051
<i>Pseudopaludicola murundu</i>	ZUEC 19554	Serra da Moeda, MG	KJ147052
<i>Pseudopaludicola murundu</i>	ZUEC 19553	Serra da Moeda, MG	KJ147053
<i>Pseudopaludicola saltica</i>	ZUEC 14294	Uberlândia, MG	KJ146993
<i>Pseudopaludicola saltica</i>	ZUEC 14291	Uberlândia, MG	KJ146994
<i>Pseudopaludicola saltica</i>	ZUEC 14292	Uberlândia, MG	KJ146995

<i>Pseudopaludicola saltica</i>	ZUEC 14239	Chapada dos Guimarães, MT (type locality)	KJ147002
<i>Pseudopaludicola saltica</i>	ZUEC 14240	Chapada dos Guimarães, MT (type locality)	KJ147003
<i>Pseudopaludicola saltica</i>	ZUEC 14241	Chapada dos Guimarães, MT (type locality)	KJ147004
<i>Pseudopaludicola boliviensis</i>	MLP-DB 5186	Corrientes, Argentina	KJ147049
<i>Pseudopaludicola boliviensis</i>	MLP-DB 5614	Chaco, Argentina	KJ147050
<i>Pseudopaludicola falcipes</i>	ZVCB 4876	-	KM091496, KM091612
<i>Pseudopaludicola falcipes</i>	ZUEC 14162	Porto Alegre, RS	KJ146972
<i>Pseudopaludicola falcipes</i>	ZUEC 14164	Porto Alegre, RS	KJ146973
<i>Pseudopaludicola falcipes</i>	ZUEC 14165	Porto Alegre, RS	KJ146974
<i>Pseudopaludicola falcipes</i>	MACN 38647	Yapeyu, Corrientes, Argentina	AY843741
<i>Pseudopaludicola jaredi</i>	SMRP 310.18	Viçosa do Ceará, CE (type locality)	KJ147033
<i>Pseudopaludicola jaredi</i>	SMRP 310.19	Viçosa do Ceará, CE (type locality)	KJ147034
<i>Pseudopaludicola jaredi</i>	ZUEC 21859	Nísia Floresta, RN	KT455497, KT455501
<i>Pseudopaludicola jaredi</i>	ZUEC 21860	Nísia Floresta, RN	KT455498, KT455502
<i>Pseudopaludicola jaredi</i>	ZUEC 21861	Nísia Floresta, RN	KT455499, KT455503
<i>Pseudopaludicola jaredi</i>	ZUEC 21862	Nísia Floresta, RN	KT455500, KT455504
<i>Pseudopaludicola ameghini</i>	ZUEC 14140	Chapada dos Guimarães, MT (type locality)	KJ146975
<i>Pseudopaludicola ameghini</i>	UFMT 8543	Chapada dos Guimarães, MT (type locality)	KJ146976

<i>Pseudopaludicola ameghini</i>	ZUEC 14138	Chapada dos Guimarães, MT (type locality)	KJ146977
<i>Pseudopaludicola ameghini</i>	ZUEC 13924	Vila Bela da Santíssima Trindade, MT	KJ147045
<i>Pseudopaludicola ameghini</i>	ZUEC 13925	Vila Bela da Santíssima Trindade, MT	KJ147046
<i>Pseudopaludicola ameghini</i>	ZUEC 13923	Vila Bela da Santíssima Trindade, MT	KJ147047
<i>Pseudopaludicola ameghini</i>	ZUEC 14146	Vila Bela da Santíssima Trindade, MT	KJ147048
<i>Pseudopaludicola ternetzi</i>	ZUEC 14169	Uberlândia, MG	KJ146986
<i>Pseudopaludicola ternetzi</i>	ZUEC 14171	Uberlândia, MG	KJ146987
<i>Pseudopaludicola ternetzi</i>	ZUEC 14172	Uberlândia, MG	KJ147042
<i>Pseudopaludicola ternetzi</i>	SMRP 266.6	Uberlândia, MG	KJ147043
<i>Pseudopaludicola ternetzi</i>	DZSJRP 6456	Icém, SP	KJ147010
<i>Pseudopaludicola ternetzi</i>	DZSJRP 6446	Icém, SP	KJ147011
<i>Pseudopaludicola ternetzi</i>	DZSJRP 6445	Icém, SP	KJ147012
<i>Pseudopaludicola ternetzi</i>	DZSJRP 8723	Icém, SP	KJ147029
<i>Pseudopaludicola ternetzi</i>	UFMT 15753	Uruaçu, GO (type locality)	KJ147054
<i>Pseudopaludicola ternetzi</i>	UFMT 15754	Uruaçu, GO (type locality)	KJ147055
<i>Pseudopaludicola ternetzi</i>	UFMT 18061	Uruaçu, GO (type locality)	KJ147056
<i>Pseudopaludicola canga</i>	ZUEC 14333	Serra dos Carajás, PA (type locality)	KJ146988
<i>Pseudopaludicola canga</i>	ZUEC 14334	Serra dos Carajás, PA (type locality)	KJ146989

<i>Pseudopaludicola canga</i>	ZUEC 14335	Serra dos Carajás, PA (type locality)	KJ146990
<i>Pseudopaludicola facureae</i>	ZUEC 14173	Uberlândia, MG	KJ146978
<i>Pseudopaludicola facureae</i>	ZUEC 14174	Uberlândia, MG	KJ146979
<i>Pseudopaludicola facureae</i>	ZUEC 14175	Uberlândia, MG	KJ146980
<i>Pseudopaludicola atragula</i>	DZSJRP 8727	Icém, SP (type locality)	KJ146996
<i>Pseudopaludicola atragula</i>	DZSJRP 8728	Icém, SP (type locality)	KJ146997
<i>Pseudopaludicola atragula</i>	DZSJRP 8747	Icém, SP (type locality)	KJ146998
<i>Pseudopaludicola</i> sp.	ZUEC 13858	Barreirinhas, MA	KJ147013
<i>Pseudopaludicola</i> sp.	ZUEC 13859	Barreirinhas, MA	KJ147014
<i>Pseudopaludicola</i> sp.	ZUEC 13860	Barreirinhas, MA	KJ147015
<i>Pseudopaludicola mystacalis</i>	ZUEC 14147	Cuiabá, MT	KJ146983
<i>Pseudopaludicola mystacalis</i>	ZUEC 14148	Cuiabá, MT	KJ146984
<i>Pseudopaludicola mystacalis</i>	ZUEC 14149	Cuiabá, MT	KJ146985
<i>Pseudopaludicola mystacalis</i>	ZUEC 14160	Poconé, MT	KJ146991
<i>Pseudopaludicola mystacalis</i>	ZUEC 14128	Uberlândia, MG	KJ146999
<i>Pseudopaludicola mystacalis</i>	ZUEC 14129	Uberlândia, MG	KJ147000
<i>Pseudopaludicola mystacalis</i>	ZUEC 14130	Uberlândia, MG	KJ147001
<i>Pseudopaludicola mystacalis</i>	ZUEC 13836	Barreirinhas, MA	KJ147005

<i>Pseudopaludicola mystacalis</i>	ZUEC 13837	Barreirinhas, MA	KJ147006
<i>Pseudopaludicola mystacalis</i>	ZUEC 13838	Barreirinhas, MA	KJ147007
<i>Pseudopaludicola mystacalis</i>	CFBH-T 03509	Babaçulandia, TO	KU495493
<i>Pseudopaludicola mystacalis</i>	CFBH-T 03517	Babaçulandia, TO	KU495494
<i>Pseudopaludicola mystacalis</i>	CFBH-T 1374	Paranaíba, MS	KJ147009
<i>Pseudopaludicola mystacalis</i>	ZUEC 13872	Barreirinhas, MA	KJ147019
<i>Pseudopaludicola mystacalis</i>	ZUEC 20542	Barreirinhas, MA	KJ147020
<i>Pseudopaludicola mystacalis</i>	ZUEC 13873	Barreirinhas, MA	KJ147021
<i>Pseudopaludicola mystacalis</i>	DZSJRP 8704	Santa Fé do Sul, SP	KJ147022
<i>Pseudopaludicola mystacalis</i>	DZSJRP 8694	Santa Fé do Sul, SP	KJ147023
<i>Pseudopaludicola mystacalis</i>	DZSJRP 8696	Santa Fé do Sul, SP	KJ147024
<i>Pseudopaludicola mystacalis</i>	DZSJRP 8724	Icém, SP	KJ147028
<i>Pseudopaludicola mystacalis</i>	DZSJRP 8726	Icém, SP	KJ147037
<i>Pseudopaludicola mystacalis</i>	DZSJRP 8725	Icém, SP	KJ147038
<i>Pseudopaludicola mystacalis</i>	ZUEC 13869	Urbano Santos - São Felipe, MA	KJ146981
<i>Pseudopaludicola mystacalis</i>	CFBH 35858	Urbano Santos - São Felipe, MA	KJ146982
<i>Pseudopaludicola mystacalis</i>	ZUEC 13868	Urbano Santos - São Felipe, MA	KJ147044

OUT groups

<i>Odontophrynus americanus</i>	AY843704
<i>Alsodes gargola</i>	AY843565
<i>Crossodactylus schmidti</i>	AY843579
<i>Adenomera hylaedactyla</i>	DQ283063
<i>Leptodactylus pentadactylus</i>	AY326017
<i>Paratelmatobius gaigeae</i>	EU224397
<i>Edalorhina perezi</i>	AY843585
<i>Engystomops pustulosus</i>	DQ337249
<i>Physalaemus nattereri</i>	AY326020
<i>Pleurodema brachyops</i>	AY843733
