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| **Nominal Taxon** | **Locality** | **Voucher** | **GenBank #** | **Original source** |
| *Odontophrynus achalensis* | | Pampa de Achala, Sierra de Cordoba, Cordoba, Argentina  Est. Los Tabaquillos | ZSM 733/2000 | DQ283247 | Frost et al. (2006) |
| MLP 4766 | KP295642 | Faivovich et al. (2014) |
| BB 1324 | DQ283248 | Frost et al. (2006) |
| ECOALMUNRC 178 | MK131160 | this study |
| *Odontophrynus americanus* | | Poços de Caldas, Minas Gerais, Brazil | AF 665 | FJ685686 | Amaro et al. (2009) |
| Airuoca, Minas Gerais, Brazil | CFBHT08133 | KU495398 | Lyra et al. (2017) |
| Rio Grande, Rio Grande do Sul, Brazil | CFBHE00334 | KU495402 | Lyra et al. (2017) |
| Aracoiaba da Serra, Sao Paulo, Brazil | CFBHT08110 | KU495401 | Lyra et al. (2017) |
| Irai, Santa Catarina, Brazil | CFBHT08305 | KU495400 | Lyra et al. (2017) |
| Teodoro Sampaio, Sao Paulo, Brazil | CFBHT09582 | KU495399 | Lyra et al. (2017) |
| Escobar, Loma Verde, Buenos Aires, Argentina | JF1891 | AY843704 | Faivovich et al. (2005) |
| *Odontophrynus barrioi* | | Aguadita, Sierra de Famatina, La Rioja, Argentina | ZFMK 80916 | MK131161 | this study |
| Arroyo el Carrizal, Belén, Catamarca, Argentina | ECOALMUNRC 284 | MK131162 | this study |
| *Odontophrynus* cf. *barrioi* | | Aguada del Molle, Sierra Pie de Palo, San Juan, Argentina | ECOALMUNRC 228 | MK131163 | this study |
| *Odontophrynus carvalhoi* | | Mucugê, Bahia, Brazil | JC 1224 | FJ685687 | Amaro et al. (2009) |
| *Odontophrynus cordobae* | | Berrotaran, Cordoba, Argentina | ZFMK 80932 | MK131164 | this study |
| Villa General Belgrano, Cordoba, Argentina | ZFMK 80934 | MK131165 | this study |
| ZFMK 80936 | MK131166 | this study |
| *Odontophrynus cultripes* | | Varginha, Minas Gerais, Brazil | FSFL 875 | FJ685688 | Amaro et al. (2009) |
| Campo Limpo de Goias, Goias, Brazil | CFBHT02188 | KU495403 | Lyra et al. (2017) |
| *Odontophrynus lavillai* | | Villa la Punta, Santiago del Estero, Argentina | ZFMK 80952 | MK131167 | this study |
| ZFMK 80953 | MK131168 | this study |
| *Odontophrynus occidentalis* | | Rio Negro, Neuquen, Argentina | ZFMK 95407 | MK131169 | this study |
| Lujan de Cuyo, Finca Vistalba, Mendoza, Argentina | MVZ:Herp 145207 | JX564880 | Zhang et al. (2013) |
| MVZ:Herp 145210 | FJ882744 | Van Bocxlaer et al. (2009) |
| *Macrogenioglottus alipioi* | | Caucaia do Alto, Cotia, São Paulo, Brazil | AF 1607 | FJ685685 | Amaro et al. (2009) |
| Serra do Teimoso, Jussari, Bahia, Brazil | AF 919 | FJ685684 | Amaro et al. (2009) |
| Urucuca, São Paulo, Brazil | CFBH 12929 | KC593360 | Fouquet et al. (2013) |
| *Proceratophrys appendiculata* | | São Sebastião, São Paulo, Brazil | MZUSP 135333 | FJ685690 | Amaro et al. (2009) |
| *Proceratophrys avelinoi* | | Misiones, Argentina | JF 1948 | DQ283039 | Frost et al. (2006) |
| *Proceratophrys bigibbosa* | | Misiones, Argentina | DB 2313 | FJ 685692 | Amaro et al. (2009) |
| *Proceratophrys boiei* | | Serra da Cantareira, São Paulo, Brazil | AF 1587 | FJ685692 | Amaro et al. (2009) |
| *Proceratophrys concavitympanum* | | Usina Hidrelétrica de Lajeado,  Palmas, Tocantins, Brazil | AF 1094 | FJ685694 | Amaro et al. (2009) |
| *Proceratophrys cristiceps* | | Parque Nacional da Serra das  Confusões, Piauí, Brazil | AF 887 | FJ685695 | Amaro et al. (2009) |
| *Proceratophrys cururu* | | Cardeal Mota, Minas Gerais, Brazil | FSFL 580 | FJ685696 | Amaro et al. (2009) |
| *Proceratophrys laticeps* | | Reserva Natural da Vale do Rio Doce, Linhares, Espírito Santo, Brazil | AF 1900 | FJ685698 | Amaro et al. (2009) |
| *Proceratophrys melanopogon* | | Maringá, Itatiaia, Rio de Janeiro, Brazil | CFBH 5755 | FJ685699 | Amaro et al. (2009) |
| *Proceratophrys minuta* | | Miguel Calmon, Bahia, Brazil | AF2309 | JX982966 | Teixeira et al. (2009) |
| *Proceratophrys moratoi* | | Itirapina, São Paulo, Brazil | CFBH 6515 | FJ685689 | Amaro et al. (2009) |
| *Proceratophrys redacta* | | Morro do Chapeu, Bahia, Brazil | MTR 22579 | JX982967 | Teixeira et al. (2009) |
| *Proceratophrys renalis* | | Brejo Madre de Deus, Pernambuco, Brazil | ZUFR J8682 | FJ685700 | Amaro et al. (2009) |
| *Proceratophrys schirchi* | | São Lourenço, Santa Teresa, Espírito Santo, Brazil | 371 | FJ685701 | Amaro et al. (2009) |
| *Proceratophrys tupinamba* | | Ilha Grande, Rio de Janeiro, Brazil | MNRJ 54541 | KF214158 | Dias et al. (2013) |
| *Rhinella marina* | | Puerto Cayo, Manabi, Ecuador | QCAZ 50698 | KR012643 | Dos Santos et al. (2015) |
| *Pleurodema somuncurensis* | | El Rincon, Meseta Somuncura, Rio Negro, Argentina | CNP A404 | JQ937203 | Faivovich et al. (2012) |
| *Ceratophrys cornuta* | | Cusco Amazonico, Madre de Dios, Peru | KU 202561 | AY326014 | Darst and Cannatella (2004) |