Álvarez-Castañeda, S. T., and C. A. Segura-Trujillo*.* 2025. Genus-level review of pocket gophers in the family Geomyidae. Therya. DOI:10.12933/therya-25-6153

**Supplementary material 1**

Specimens in this study were examined using the Cytb and COI gene. species name, the reference (the study from which the sequences were obtained), and the GenBank accession number. \* Indicates Mitogenome GenBank number access.

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| --- | --- | --- | --- | --- | --- |
| **Species** | **Study** | **Cytb (GenBank number)** | **Species** | **Study** | **Cytb (GenBank number)** |
| *Cratogeomys castanops* | Bradley *et al.* 2023 | **OQ692170** | *Orthogeomys cavator* | Spradling *et al.* 2016 | KC680039 |
|  | Bradley *et al.* 2023 | OQ692172 |  | Spradling *et al.* 2016 | **KC680033** |
|  | Bradley *et al.* 2023 | OQ692173 |  |  |  |
|  | Bradley *et al.* 2023 | OQ692176 | *Orthogeomys cherriei* | Spradling *et al.* 2016 | **KC692846** |
|  | Bradley *et al.* 2023 | OQ692177 |  | Spradling *et al.* 2016 | KC680036 |
|  |  |  |  | Spradling *et al.* 2016 | KC680037 |
| *Cratogeomys fulvescens* | Hafner *et al.* 2005 | **AY649457** |  | Spradling *et al.* 2016 | KC692849 |
|  | Hafner *et al.* 2005 | AY649458 |  | Spradling *et al.* 2016 | KC692857 |
|  | Hafner *et al.* 2005 | AY649459 |  |  |  |
|  | Hafner *et al.* 2005 | AY649460 | *Orthogeomys cuniculus* | Spradling *et al.* 2016 | KR349917 |
|  | Hafner *et al.* 2005 | AY649461 |  | Spradling *et al.* 2016 | **KR349918** |
|  |  |  |  | Spradling *et al.* 2016 | KC692845 |
| *Cratogeomys fumosus* | Demastes *et al.* 2002 | AF302170 |  |  |  |
|  | Hafner *et al.* 2004 | AY545533 | *Orthogeomys dariensis* | Spradling *et al.* 2016 | KC692853 |
|  | Hafner *et al.* 2004 | **AY545534** |  | Spradling *et al.* 2016 | **KC680034** |
|  |  |  |  | Spradling *et al.* 2016 | KC680035 |
| *Cratogeomys goldmani* | Hafner *et al.* 2008 | **EF607258** |  | Spradling *et al.* 2016 | KC680032 |
|  | Hafner *et al.* 2008 | EF607259 |  |  |  |
|  | Hafner *et al.* 2008 | EF607260 | *Orthogeomys heterodus* | Smith 1998 | U65300 |
|  | Hafner *et al.* 2008 | EF607262 |  | Smith 1998 | U65299 |
|  | Hafner *et al.* 2008 | EF607263 |  | Hafner 1991 | KC680038 |
|  |  |  |  | Sudman and Hafner 1992 | **L38471** |
|  |  |  |  |  |  |
| *Cratogeomys merriami* | Hafner *et al.* 2005 | **AY649463** | *Orthogeomys hispidus* | Spradling *et al.* 2016 | KC692850 |
|  | Hafner *et al.* 2005 | AY649464 |  | Spradling *et al.* 2016 | **KC692851** |
|  | Hafner *et al.* 2005 | AY649465 |  | Spradling *et al.* 2016 | KC692855 |
|  | Hafner *et al.* 2005 | AY649467 |  | Spradling *et al.* 2016 | KC692852 |
|  | Hafner *et al.* 2005 | AY649468 |  | Spradling *et al.* 2016 | KC692854 |
|  |  |  |  |  |  |
| *Cratogeomys perotensis* | Hafner *et al.* 2005 | **AY649447** | *Orthogeomys lanius* | Hafner *et al.* 2014 | **KJ476900** |
|  | Hafner *et al.* 2005 | AY649448 |  |  |  |
|  | Hafner *et al.* 2005 | AY649449 | *Orthogeomys underwoodi* | Spradling *et al.* 2004 | KC680051 |
|  | Hafner *et al.* 2005 | AY649450 |  | Spradling *et al.* 2016 | **AY331211** |
|  | Hafner *et al.* 2005 | AY649451 |  | Spradling *et al.* 2016 | KC680052 |
|  |  |  |  |  |  |
| *Cratogeomys planiceps* | Hafner *et al.* 2004 | **AY545539** | *Pappogeomys bulleri* | Hafner *et al.* 2009 | **EU880375** |
|  | Hafner *et al.* 2004 | AY545540 |  | Hafner *et al.* 2009 | EU880377 |
|  | Hafner *et al.* 2004 | AY545541 |  | Hafner *et al.* 2009 | EU880379 |
|  |  |  |  | Hafner *et al.* 2009 | EU880378 |
| *Cratogeomys tylorhinus* | Hafner *et al.* 2004 | **AY545535** |  | Demastes  *et al.* 2002 | **AF302177** |
|  | Hafner *et al.* 2004 | AY545536 |  |  |  |
|  | Hafner *et al.* 2004 | AY545537 | *Thomomys atrovarius* | Hafner *et al.* 2011 | HQ141726 |
|  | Demastes *et al.* 2002 | AF302169 |  | Hafner *et al.* 2012 | **HQ141723** |
|  | Demastes *et al.* 2002 | AF302163 |  | Hafner *et al.* 2013 | HQ141725 |
|  |  |  |  | Hafner *et al.* 2014 | HQ141724 |
| *Geomys arenarius* | Bradley *et al.* 2023 | **OQ692198** |  | Hafner *et al.* 2015 | HQ141727 |
|  | Bradley *et al.* 2023 | OQ692200 |  |  |  |
|  | Bradley *et al.* 2023 | OQ692201 | *Thomomys baileyi* | Bradley *et al.* 2023 | **OQ692269** |
|  | Bradley *et al.* 2023 | OQ692199 |  |  |  |
|  | Pfau *et al.* 2023 | MZ030792\* | *Thomomys bottae* | Bradley *et al.* 2023 | **OQ692284** |
|  |  |  |  | Bradley *et al.* 2023 | OQ692283 |
| *Geomys attwateri* | Bradley *et al.* 2023 | **OQ692202** |  | Bradley *et al.* 2023 | OQ692267 |
|  | Bradley *et al.* 2023 | OQ692203 |  | Bradley *et al.* 2023 | OQ692268 |
|  | Sudman *et al.* 2006 | AY393938 |  |  |  |
|  | Sudman *et al.* 2006 | AY393937 | *Thomomys connectans* | Bradley *et al.* 2023 | **U65270** |
|  | Sudman *et al.* 2006 | AY393936 |  |  |  |
|  |  |  | *Thomomys fulvus* | Álvarez-Castañeda 2010 | **EU240740** |
| *Geomys brazensis* | Bradley *et al.* 2023 | **OQ692207** |  | Álvarez-Castañeda 2010 | EU240741 |
|  | Bradley *et al.* 2023 | OQ692221 |  | Álvarez-Castañeda 2010 | EU240743 |
|  | Bradley *et al.* 2023 | OQ692222 |  | Álvarez-Castañeda 2010 | EU240744 |
|  | Bradley *et al.* 2023 | OQ692223 |  | Álvarez-Castañeda 2010 | EU240745 |
|  | Bradley *et al.* 2023 | OQ692224 |  |  |  |
|  |  |  | *Thomomys laticeps* | Álvarez-Castañeda 2010 | EU240735 |
| *Geomys bursarius* | Bradley *et al.* 2023 | **OQ692236** |  | Álvarez-Castañeda 2010 | EU240736 |
|  | Bradley *et al.* 2023 | OQ692237 |  | Álvarez-Castañeda 2010 | **EU240734** |
|  | Bradley *et al.* 2023 | OQ692238 |  |  |  |
|  | Bradley *et al.* 2023 | OQ692239 | *Thomomys mazama* | Steinberg Unpublished | AF215789 |
|  | Bradley *et al.* 2023 | OQ692240 |  | Steinberg Unpublished | AF215790 |
|  |  |  |  | Steinberg Unpublished | AF215791 |
| *Geomys jugossicularis* | Bradley *et al.* 2023 | **OQ692234** |  | Steinberg Unpublished | AF215792 |
|  | Bradley *et al.* 2023 | OQ692235 |  | Steinberg Unpublished | **AF215787** |
|  | Genoways *et al*. 2008 | EU332157 |  |  |  |
|  | Genoways *et al*. 2008 | EU332155 | *Thomomys monticola* | Smith 1998 | **U65292** |
|  | Genoways *et al*. 2008 | EU332156 |  | Smith 1998 | U65293 |
|  |  |  |  |  | AF215813 |
| *Geomys knoxjonesi* | Bradley *et al.* 2023 | **OQ692226** |  |  |  |
|  | Bradley *et al.* 2023 | OQ692227 | *Thomomys nayarensis* | Mathis *et al.* 2013 | **KC525217** |
|  | Bradley *et al.* 2023 | OQ692228 |  | Mathis *et al.* 2013 | KC525218 |
|  | Bradley *et al.* 2023 | OQ692229 |  | Mathis *et al.* 2013 | KC525219 |
|  | Bradley *et al.* 2023 | OQ692230 |  | Hafner *et al.* 2011 | HQ141730 |
|  |  |  |  |  |  |
| *Geomys lutescens* | Sudman *et al.* 2006 | **AY393950** | *Thomomys nigricans* | Trujano-Alvarez and Álvarez-Castañeda 2013 | **KC243151** |
|  | Elrod *et al.* 2000 | AF158696 |  | Trujano-Alvarez and Álvarez-Castañeda 2013 | KC243152 |
| *Geomys personatus* |  |  |  | Trujano-Alvarez and Álvarez-Castañeda 2013 | KC243153 |
|  | Bradley *et al.* 2023 | **OQ692254** |  | Trujano-Alvarez and Álvarez-Castañeda 2013 | KC243154 |
|  | Bradley *et al.* 2023 | OQ692255 |  | Trujano-Alvarez and Álvarez-Castañeda 2013 | KC243155 |
|  | Bradley *et al.* 2023 | OQ692256 |  |  |  |
|  | Bradley *et al.* 2023 | OQ692257 | *Thomomys ruidosae* | Bradley *et al.* 2023 | **OQ692280** |
|  |  |  |  |  |  |
| *Geomys mobilensis* | Barrow *et al.* Unpublished | **HQ170589** | *Thomomys sheldoni* | Mathis *et al.* 2013 | **JX520550** |
|  | Barrow *et al.* Unpublished | HQ170588 |  | Mathis *et al.* 2013 | JX520555 |
|  | Barrow *et al.* Unpublished | HQ170601 |  | Mathis *et al.* 2013 | JX520559 |
| Barrow *et al.* Unpublished | | HQ170565 |  | Mathis *et al.* 2013 | JX520561 |
|  | Barrow *et al.* Unpublished | HQ170559 |  | Mathis *et al.* 2013 | JX520562 |
|  |  |  |  |  |  |
| *Geomys pinetis* | Barrow *et al.* Unpublished | **HQ170577** | *Thomomys talpoides* | Steinberg Unpublished | **AF215809** |
|  | Greenia *et al*. Unpublised | MW995951\* |  | Steinberg Unpublished | AF215810 |
|  | Greenia *et al*. Unpublised | MZ030795\* |  | Steinberg Unpublished | AF215808 |
|  |  |  |  | Steinberg Unpublished | AF215812 |
| *Geomys streckeri* | Bradley *et al.* 2023 | OQ692258 |  | Steinberg Unpublished | AF215811 |
|  | Bradley *et al.* 2023 | OQ692259 |  |  |  |
|  | Sudman *et al.* 2006 | AY393969 | *Thomomys townsendii* | Smith 1998 | **U65281** |
|  | Sudman *et al.* 2006 | AY393968 |  | Smith 1998 | U65282 |
|  | Sudman *et al.* 2006 | **AY393967** |  |  |  |
|  |  |  | *Thomomys umbrinus* | Hafner *et al.* 2011 | HQ141718 |
| *Geomys texensis* | Bradley *et al.* 2023 | **OQ692210** |  | Hafner *et al.* 2011 | HQ141719 |
|  | Bradley *et al.* 2023 | OQ692211 |  | Hafner *et al.* 2011 | HQ141720 |
|  | Bradley *et al.* 2023 | OQ692214 |  | **Smith 1998** | **U65285** |
|  | Bradley *et al.* 2023 | OQ692215 |  | Smith 1998 | U65287 |
|  | Bradley *et al.* 2023 | OQ692216 |  |  |  |
|  |  |  | *Zygogeomys trichopus* | Spradling *et al.* 2016 | **KC680050** |
| *Geomys tropicalis* | Bradley *et al.* 2023 | OQ692261 |  | Xia *et al.* Unpublished | **L38465** |
|  | Sudman *et al.* 2006 | AY393971 |  |  |  |
|  | Sudman *et al.* 2006 | **AY393970** |  |  |  |
|  |  |  | **Outgroup** |  |  |
|  |  |  | *Chaetodipus californicus* | Alexander and Riddle 2005 | **AY926401** |
|  |  |  | *Dipodomys agilis* | Patton Unpublished | **MH480437** |
|  |  |  | *Heteromys nelsoni* | Rogers and Gonzalez 2005 | **GU647012.** |
|  |  |  | *Liomys pictus* | Alexander and Riddle 2005 | **AY926359** |
|  |  |  | *Microdipodops pallidus* | Alexander and Riddle 2006 | **AY926361** |
|  |  |  | *Perognathus flavescens* | Alexander and Riddle 2005 | **AY926411** |
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| **Species** | **Study** | | **COI (GenBank number)** | |  | |
| *Cratogeomys castanops* | | Spradling *et al.* 2004 | | **AY331076** | |
|  | | Hafner *et al.* 2008 | | EF607213 | |
|  | | Hafner *et al.* 2008 | | EF607214 | |
|  | | Hafner *et al.* 2008 | | EF607215 | |
|  | | Hafner *et al.* 2008 | | EF607216 | |
|  | |  | |  | |
|  | |  | |  | |
| *Cratogeomys fulvescens* | | Hafner *et al.* 2005 | | **AY649479** | |
|  | | Hafner *et al.* 2005 | | AY649480 | |
|  | | Hafner *et al.* 2005 | | AY649481 | |
|  | | Hafner *et al.* 2005 | | AY649482 | |
|  | | Hafner *et al.* 2005 | | AY649483 | |
|  | |  | |  | |
| *Cratogeomys goldmani* | | Hafner *et al.* 2008 | | EF607224 | |
|  | | Hafner *et al.* 2008 | | EF607225 | |
|  | | Hafner *et al.* 2008 | | EF607226 | |
|  | | Hafner *et al.* 2008 | | **EF607217** | |
|  | | Hafner *et al.* 2008 | | EF607229 | |
|  | |  | |  | |
| *Cratogeomys merriami* | | Spradling *et al.* 2004 | | **AY331078** | |
|  | | Hafner *et al.* 2005 | | AY649485 | |
|  | | Hafner *et al.* 2005 | | AY649486 | |
|  | | Hafner *et al.* 2005 | | AY649488 | |
|  | | Hafner *et al.* 2005 | | AY649487 | |
|  | |  | |  | |
| *Cratogeomys perotensis* | | Hafner *et al.* 2005 | | **AY649469** | |
|  | | Hafner *et al.* 2005 | | AY649470 | |
|  | | Hafner *et al.* 2005 | | AY649471 | |
|  | | Hafner *et al.* 2005 | | AY649472 | |
|  | | Hafner *et al.* 2005 | | AY649473 | |
|  | |  | |  | |
| *Cratogeomys neglectus* | | Spradling *et al.* 2004 | | **AY331073** | |
|  | |  | |  | |
| *Cratogeomys tylorhinus* | | Spradling *et al.* 2004 | | **AY506564** | |
|  | |  | |  | |
| *Cratogeomys zinseri* | | Spradling *et al.* 2004 | | **AY331074** | |
|  | |  | |  | |
| *Cratogeomys fumosus* | | Spradling *et al.* 2004 | | **AY331075** | |
|  | |  | |  | |
| *Cratogeomys gymnurus* | | Spradling *et al.* 2004 | | **AY506563** | |
|  | |  | |  | |
| *Geomys arenarius* | | Greenia *et al*. Unpublised | | **MZ030792\*** | |
|  | |  | |  | |
| *Geomys breviceps* | | Welborn and Light 2014 | | **KF542692** | |
|  | | Welborn and Light 2014 | | KF542693 | |
|  | | Welborn and Light 2014 | | KF542694 | |
|  | | Welborn and Light 2014 | | KF542695 | |
|  | | Welborn and Light 2014 | | KF542696 | |
|  | |  | |  | |
| *Geomys bursarius* | | Greenia *et al*. Unpublised | | **MZ030793\*** | |
|  | |  | |  | |
| *Geomys knoxjonesi* | | Greenia *et al*. Unpublised | | **MZ030794\*** | |
|  | | Sudman *et al.* 2006 | | **AY393950** | |
|  | | Elrod *et al.* 2000 | | AF158696 | |
|  | |  | |  | |
| *Geomys pinetis* | | Greenia *et al*. Unpublised | | NC\_069016\* | |
|  | | Greenia *et al*. Unpublised | | MZ030795\* | |
|  | | Greenia *et al*. Unpublised | | **MW995951\*** | |
|  | |  | |  | |
| *Geomys texensis* | | Greenia *et al*. Unpublised | | MZ030791\* | |
|  | | Spradling *et al.* 2004 | | **AY331086** | |
|  | |  | |  | |
| *Orthogeomys cherriei* | | Spradling *et al.* 2004 | | **AY331079** | |
|  | |  | |  | |
| *Orthogeomys dariensis* | | Ortiz *et al.* Unpublised | | **MZ364406** | |
|  | |  | |  | |
| *Orthogeomys grandis* | | Spradling *et al.* 2004 | | AY331082 | |
|  | | Spradling *et al.* 2004 | | AY331083 | |
|  | | Spradling *et al.* 2016 | | KR259297 | |
|  | |  | |  | |
| *Orthogeomys hispidus* | | Spradling *et al.* 2004 | | **AY331081** | |
|  | | Spradling *et al.* 2016 | | KR259293 | |
|  | | Spradling *et al.* 2016 | | KR259294 | |
|  | | Spradling *et al.* 2016 | | KR259295 | |
|  | | Spradling *et al.* 2016 | | KR259296 | |
|  | |  | |  | |
| *Orthogeomys underwoodi* | | Spradling *et al.* 2004 | | **AY331080** | |
|  | |  | |  | |
| *Pappogeomys bulleri* | | Hafner *et al.* 2009 | | **EU880351** | |
|  | | Hafner *et al.* 2009 | | EU880352 | |
|  | | Hafner *et al.* 2009 | | EU880353 | |
|  | | Hafner *et al.* 2009 | | EU880354 | |
|  | | Hafner *et al.* 2009 | | EU880355 | |
|  | |  | |  | |
| *Thomomys atrovarius* | | Mathis *et al.* 2013 | | **KC525221** | |
|  | | Mathis *et al.* 2013b | | JX520521 | |
|  | | Mathis *et al.* 2013b | | JX520525 | |
|  | | Mathis *et al.* 2013b | | JX520537 | |
|  | |  | |  | |
| *Thomomys bottae* | | Spradling *et al.* 2004 | | **AY331088** | |
|  | | Harper *et al.* 2015 | | KP126098 | |
|  | | Mathis *et al.* 2013 | | JX520536 | |
|  | | Harper *et al.* 2015 | | KP126099 | |
|  | | Harper *et al.* 2015 | | KP126100 | |
|  | |  | |  | |
| *Thomomys bulvivorius* | | Spradling *et al.* 2004 | | **AY331090** | |
|  | |  | |  | |
| *Thomomys mazama* | | Spradling *et al.* 2004 | | **AY331092** | |
|  | | Spradling *et al.* 2004 | | AY331091 | |
|  | | Eger Unpublished | | JF457173 | |
|  | | Eger Unpublished | | JF457174 | |
|  | | Eger Unpublished | | JF457172 | |
|  | |  | |  | |
| *Thomomys monticola* | | Spradling *et al.* 2004 | | **AY506565** | |
|  | |  | |  | |
| *Thomomys nayarensis* | | Mathis *et al.* 2013a | | **KC525222** | |
|  | | Mathis *et al.* 2013a | | KC589034 | |
|  | |  | |  | |
| *Thomomys sheldoni* | | Mathis *et al.* 2013b | | JX520533 | |
|  | | Mathis *et al.* 2013b | | **JX520516** | |
|  | | Mathis *et al.* 2013b | | JX520538 | |
|  | | Mathis *et al.* 2013b | | JX520539 | |
|  | | Mathis *et al.* 2013b | | JX520540 | |
|  | |  | |  | |
| *Thomomys townsendii* | | Hughes 2022 | | **OK501263** | |
|  | |  | |  | |
| *Thomomys umbrinus* | | Mathis *et al.* 2013b | | **JX520513** | |
|  | |  | |  | |
| *Zygogeomys trichopus* | | Spradling *et al.* 2004 | | **AY331087** | |
|  | |  | |  | |
|  | |  | |  | |
| **Outgroup** | |  | |  | |
| *Chaetodipus arenarius* | | BOLD Unpublished | | **GU670403** | |
| *Dipodomys merriami* | | Hafner *et al.* 2007 | | **EF156839** | |
| *Heteromys desmarestianus* | | Hafner *et al.* 2007 | | **EF156850** | |
| *Microdipodops megacephalus* | | Hafner *et al.* 2007 | | **EF156846** | |
| *Perognathus longimembris* | | Hafner *et al.* 2007 | | **EF156865** | |

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