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| Specimen | Taxon | Material | Locality | Age (Ma) | Reference(s) |
| QM F30408 | *Badjcinus turnbulli* | Partial skull (Left: P2-3; M1-4) | White Hunter Site, D-Site Plateau, Riversleigh QLD | Late Oligocene  (>23.0) | Muirhead & Wroe, 1998 |
| QM F30409 | *Badjcinus turnbulli* | Right M1 | White Hunter Site, D-Site Plateau, Riversleigh QLD | Late Oligocene  (>23.0) | Muirhead & Wroe, 1998 |
| QM F30407 | *Badjcinus turnbulli* | Partial right dentary (M1-4) | White Hunter Site, D-Site Plateau, Riversleigh QLD | Late Oligocene  (>23.0) | Muirhead & Wroe, 1998 |
| QM F30410 | *Badjcinus turnbulli* | Partial left dentary (P2; M1-4) | White Hunter Site, D-Site Plateau, Riversleigh QLD | Late Oligocene  (>23.0) | Muirhead & Wroe, 1998 |
| QM F30411 | *Badjcinus turnbulli* | Partial right dentary (P2-3; M1-3) | White Hunter Site, D-Site Plateau, Riversleigh QLD | Late Oligocene  (>23.0) | Muirhead & Wroe, 1998 |
| QM F30331 | *Maximucinus muirheadae* | Right M2 | Ringtail Site, Riversleigh, QLD | Middle Miocene  (14.2-12.9) | Wroe, 2001 |
| QM F30386 | *Muribacinus gadiyuli* | Partial right maxilla & jugal (P3; M1-4) | Gag Site, Riversleigh, QLD | Middle Miocene  (15.1-14.2) | Wroe, 1996 |
| QM F30385 | *Muribacinus gadiyuli* | Partial right dentary (P3-M4) | Henk's Hollow Site, Riversleigh, QLD | Middle Miocene  (15.1-12.9) | Wroe, 1996 |
| QM F16853 | *Ngamalacinus timmulvaneyi* | Partial right dentary (M1-4) | Inabeyance Site, Godthelp Hill, Riversleigh QLD | Early Miocene  (18.5-16.2) | Muirhead, 1997 |
| QM F30300 | *Ngamalacinus timmulvaneyi* | Left maxilla (P2-M3) | Camel Sputum Site, Godthelp Hill, Riversleigh QLD | Early Miocene  (18.5-17.0) | Muirhead, 1997 |
| QM F16855 | *Ngamalacinus timmulvaneyi* | Right M2 | Inabeyance Site, Godthelp Hill, Riversleigh QLD | Early Miocene  (18.5-16.2) | Muirhead, 1997 |
| QM F16802 | *Nimbacinus dicksoni* | Left M1 | Henk's Hollow Site, Riversleigh, QLD | Middle Miocene  (15.1-12.9) | Muirhead & Archer, 1990 |
| QM F16803 | *Nimbacinus dicksoni* | Partial Right maxilla (P3-M3) | Henk's Hollow Site, Riversleigh, QLD | Middle Miocene  (15.1-12.9) | Muirhead & Archer, 1990 |
| QM F16804 | *Nimbacinus dicksoni* | Partial right maxilla (M1-3) | Henk's Hollow Site, Riversleigh, QLD | Middle Miocene  (15.1-12.9) | Muirhead & Archer, 1990 |
| QM F16805 | *Nimbacinus dicksoni* | M3 | Henk's Hollow Site, Riversleigh, QLD | Middle Miocene  (15.1-12.9) | Muirhead & Archer, 1990 |
| QM F16806 | *Nimbacinus dicksoni* | M3 | Henk's Hollow Site, Riversleigh, QLD | Middle Miocene  (15.1-12.9) | Muirhead & Archer, 1990 |
| QM F16807 | *Nimbacinus dicksoni* | M4 | Henk's Hollow Site, Riversleigh, QLD | Middle Miocene  (15.1-12.9) | Muirhead & Archer, 1990 |
| NTM P85553-3 | *Nimbacinus dicksoni* | Partial right dentary (P1-2; M1) | Bullock Creek, NT | Middle Miocene  (17-12) | Muirhead & Archer, 1990 |
| QM F36357 | *Nimbacinus dicksoni* | Skull & mandible | AL90 Site, Riversleigh, QLD | Middle Miocene  (15.1-14.2) | Wroe & Musser, 2001 |
| NTM P9612-4 | Nimbacinus dicksoni (syn. *Nimbacinus richi* Murray & Megirian, 2000) | Right dentary (P1-M4) | Top Site, Bullock Creek, NT | Middle Miocene  (17-12) | Murray & Megirian, 2000 |
| NTM P8695-92 | Nimbacinus dicksoni (syn. *Nimbacinus richi* Murray & Megirian, 2000) | Partial left dentary (P2, M1, M3-4) | Blast Site, Bullock Creek, NT | Middle Miocene  (17-12) | Murray & Megirian, 2000 |
| NTM P904-7 | Nimbacinus dicksoni (syn. *Nimbacinus richi* Murray & Megirian, 2000) | Partial left dentary (M2-4) | Top Site, Bullock Creek, NT | Middle Miocene  (17-12) | Murray & Megirian, 2000 |
| QM F16848 | *Thylacinus macknessi* | Right dentary (C1-M4) | Neville's Garden Site, Riversleigh, QLD | Early Miocene  (18.5-17.7) | Muirhead, 1992; Muirhead & Gillespie, 1995 |
| QM F16848b | *Thylacinus macknessi* | Right C1 | Neville's Garden Site, Riversleigh, QLD | Early Miocene  (18.5-17.7) | Muirhead, 1992 |
| QM F19849 | *Thylacinus macknessi* | Left M3 | Mike's Menagerie Site, Godthelp Hill, Riversleigh, QLD | Early Miocene  (18.5-16.2) | Muirhead, 1992 |
| NTM P9618 | *Thylacinus megiriani* | Partial left maxilla (P1; P3; M1-4) | Ongeva Local Fauna, Alcoota Station, NT | Late Miocene - early Pliocene (7.5-4.5) | Murray, 1997 |
| NTM P4376 | *Thylacinus megiriani* | Partial right dentary | Ongeva Local Fauna, Alcoota Station, NT | Late Miocene - early Pliocene (7.5-4.5) | Yates, 2015 |
| NTM P4377 | *Thylacinus megiriani* | Partial right dentary (M4 fragmentary) | Ongeva Local Fauna, Alcoota Station, NT | Late Miocene - early Pliocene (7.5-4.5) | Yates, 2015 |
| CPC 6746 | *Thylacinus potens* | Partial palate (left M2-4; right P2-M2) | Alcoota Local Fauna, Alcoota Station, NT | Late Miocene - early Pliocene (8.5-5.5) | Woodburne, 1967 |
| UCMP 66971 | *Thylacinus potens* | Left M3 | Alcoota Local Fauna, Alcoota Station, NT | Late Miocene - early Pliocene (8.5-5.5) | Woodburne, 1967 |
| UCMP 71012 | *Thylacinus potens* | Left M4 fragment | Alcoota Local Fauna, Alcoota Station, NT | Late Miocene - early Pliocene (8.5-5.5) | Woodburne, 1967 |
| UCMP 66199 | *Thylacinus potens* | Left C1 | Alcoota Local Fauna, Alcoota Station, NT | Late Miocene - early Pliocene (8.5-5.5) | Woodburne, 1967 |
| UCMP 66206 | *Thylacinus potens* | Partial left dentary (M2-4) | Alcoota Local Fauna, Alcoota Station, NT | Late Miocene - early Pliocene (8.5-5.5) | Woodburne, 1967 |
| UCMP 71011 | *Thylacinus potens* | Partial left dentary (P3-M1) | Alcoota Local Fauna, Alcoota Station, NT | Late Miocene - early Pliocene (8.5-5.5) | Woodburne, 1967 |
| UCMP 66649 | *Thylacinus potens* | Left calcaneum | Alcoota Local Fauna, Alcoota Station, NT | Late Miocene - early Pliocene (8.5-5.5) | Woodburne, 1967 |
| UCMP 69677 | *Thylacinus potens* | Left astragalus | Alcoota Local Fauna, Alcoota Station, NT | Late Miocene - early Pliocene (8.5-5.5) | Woodburne, 1967 |
| UCMP 69657 | *Thylacinus potens* | Partial left metatarsal 4 | Alcoota Local Fauna, Alcoota Station, NT | Late Miocene - early Pliocene (8.5-5.5) | Woodburne, 1967 |
| UCMP 69658 | *Thylacinus potens* | Right metatarsal 4 | Alcoota Local Fauna, Alcoota Station, NT | Late Miocene - early Pliocene (8.5-5.5) | Woodburne, 1967 |
| UCMP 69659 | *Thylacinus potens* | Partial right metatarsal 3 | Alcoota Local Fauna, Alcoota Station, NT | Late Miocene - early Pliocene (8.5-5.5) | Woodburne, 1967 |
| NTM P4326 | *Thylacinus potens* | Partial right maxilla (P2-3; M2-4) | Alcoota Local Fauna, Alcoota Station, NT | Late Miocene - early Pliocene (8.5-5.5) | Yates, 2014 |
| NTM P4327 | *Thylacinus potens* | Partial left dentary (P2-3; M1-4) | Alcoota Local Fauna, Alcoota Station, NT | Late Miocene - early Pliocene (8.5-5.5) | Yates, 2014 |
| NTM P4332 | *Thylacinus potens* | Left P3 | Alcoota Local Fauna, Alcoota Station, NT | Late Miocene - early Pliocene (8.5-5.5) | Yates, 2014 |
| NTM P4379 | *Thylacinus potens* | Partial maxilla (M2) | Alcoota Local Fauna, Alcoota Station, NT | Late Miocene - early Pliocene (8.5-5.5) | Yates, 2014 |
| NTM P4461 | *Thylacinus potens* | Right C1 | Alcoota Local Fauna, Alcoota Station, NT | Late Miocene - early Pliocene (8.5-5.5) | Yates, 2014 |
| NTM P4516 | *Thylacinus potens* | Right maxillary molar fragment | Alcoota Local Fauna, Alcoota Station, NT | Late Miocene - early Pliocene (8.5-5.5) | Yates, 2014 |
| QM F3741 | *Thylacinus* sp. | Partial right maxilla | Chinchilla Local Fauna, QLD | Late Pliocene (4.2-3.6) | Louys & Price, 2015 |
| QM F9476 | *Thylacinus* sp. | Partial right dentary (M4) | Chinchilla Local Fauna, QLD | Late Pliocene (4.2-3.6) | Louys & Price, 2015 |
| WPC 4506 | *Thylacinus* sp. | Partial right dentary (M2-4) | Chinchilla Local Fauna, QLD | Late Pliocene (4.2-3.6) | Mackness et al., 2002 |
| AM F69875 | *Thylacinus* sp. | Partial left dentary (fragmentary M3; M4) | Big Sink Local Fauna; NSW | Late Pliocene (5-3) | Dawson et al., 1999 |
| UCMP 107737 | *Thylacinus* sp. | Partial P2 | Awe Local Fauna, New Guinea | Late Pliocene (4.0-3.0) | Plane, 1976 |
| SAM P29807 | *Thylacinus yorkellus* | Partial left dentary (C-P3; M2-3) | Curramulka Local Fauna, Corra-Lynn Cave, SA | Late Miocene - early Pliocene (5.3-3.6) | Pledge, 1992; Yates, 2015 |
| SAM P38799 | *Thylacinus yorkellus* | Partial right M3 | Curramulka Local Fauna, Corra-Lynn Cave, SA | Late Miocene - early Pliocene (5.3-3.6) | Yates, 2015 |
| NTM P98211 | *Tyarrpecinus rothi* | Partial left maxilla (P2; fragmentary M1-4) | Alcoota Local Fauna, Alcoota Station, NT | Late Miocene - early Pliocene (8.5-5.5) | Murray & Megirian, 2000 |
| QM F16851 | *Wabulacinus ridei* | Partial right maxilla (M1-2) | Camel Sputum Site, Godthelp Hill, Riversleigh, QLD | Early Miocene (18.5-17.0) | Muirhead, 1997 |
| QM F16852 | *Wabulacinus ridei* | Partial left dentary (M3) | Camel Sputum Site, Godthelp Hill, Riversleigh, QLD | Early Miocene (18.5-17.0) | Muirhead, 1997 |
| NTM P2815-10 | Thylacinidae *incertae sedis* | Partial right M2 | Pwerte Marnte Marnte Local Fauna; NT | Late Oligocene (>23.0) | Murray & Megirian, 2006a |
| QM F16809 | Thylacinidae *incertae sedis* (*Nimbacinus dicksoni* Muirhead & Archer, 1990) | Partial right M2 | D-Site, Riversleigh, QLD | Late Oligocene (>23.0) | Muirhead & Archer, 1990; Murray & Megirian 2000; Wroe & Musser 2001 |
| QM F16850 | Thylacinidae *incertae sedis* (*Thylacinus macknessi* Muirhead, 1992) | Right M1 | Dwornamor LF, Gag Site, Riversleigh, QLD | Middle Miocene (15.1-14.2) | Muirhead & Archer, 1990; Murray & Megirian 2000; Wroe & Musser 2001 |
| Dasyuromorphia *incertae sedis* | | | | | |
| NTM P907-3 | *Mutpuracinus archibaldi* | Partial left maxilla (P2-M4) | Blast Site, Bullock Creek, NT | Middle Miocene (17-12) | Murray & Megirian, 2000 |
| NTM P9612-5 | *Mutpuracinus archibaldi* | Partial left dentary (M3-4) | Top Site, Bullock Creek, NT | Middle Miocene (17-12) | Murray & Megirian, 2000 |
| NTM P9464-120 | *Mutpuracinus archibaldi* | Right premaxilla | Top Site, Bullock Creek, NT | Middle Miocene (17-12) | Murray & Megirian, 2000 |
| NTM P9464-119 | *Mutpuracinus archibaldi* | Partial right dentary | Top Site, Bullock Creek, NT | Middle Miocene (17-12) | Murray & Megirian, 2000 |
| NTM P87108-10 | *Mutpuracinus archibaldi* | Right M4 | Blast Site, Bullock Creek, NT | Middle Miocene (17-12) | Murray & Megirian, 2000 |
| NTM P91168-5 | *Mutpuracinus archibaldi* | Partial cranium | Jaw Junction Site, Riversleigh, QLD | Mid-late Miocene (13.7-7.3) | Murray & Megirian, 2006b |