

Supplementary Information for “Craniodental Morphology and Phylogeny of Marsupials” (Beck et al., 2022 - Bulletin of the American Museum of Natural History)

Supplementary table S2. Specimens used for scoring of morphological characters. In the SPECIES column, “(type)” indicates that the species is the type species for that genus. Specimens were identified as “adult” if their complete adult dentition was fully erupted, “subadult” if the last tooth (or teeth) to erupt (usually the third premolar, fourth molar, or both – see character 128 in main text) was only partially erupted but all other teeth were fully erupted, and “juvenile” for any earlier ontogenetic stage; specimens that could not be unambiguously placed in one of these categories were classified as “unknown”. Institutional abbreviations are as follows:

AMNH - Mammalogy Collection, American Museum of Natural History, New York

AMNH FM - Frick Collection (Fossil Mammals), American Museum of Natural History, New York

AR - Archer Collection, University of New South Wales, Sydney

BMNH - Natural History Museum, London

CNP - Centro Nacional Patagónico, Puerto Madryn

CPC - Commonwealth Palaeontological Collection, Geoscience Australia, Canberra

FMNH - Field Museum of Natural History Chicago

FU - Flinders University Palaeontology Collection, Flinders University, Adelaide

LSUMZ - Louisiana State University Museum of Zoology, Baton Rouge

MACN - Museo Argentino de Ciencias Naturales “Bernardino Rivadavia”, Buenos Aires

MACN A – Ameghino Collection, Museo Argentino de Ciencias Naturales “Bernardino Rivadavia”, Buenos Aires

MB.Ma - Museum für Naturkunde, Berlin

MCA - Museo “Carlos Ameghino”, Mercedes

MHNC - Museo de Historia Natural “Alcide d’Orbigny”, Cochabamba

MLP - Museo de La Plata, La Plata

MMNH - Bell Museum of Natural History, University of Minnesota, St. Paul

MMP - Museo Municipal de Ciencias Naturales “Lorenzo Scaglia”, Mar del Plata

MNHN-Bol - Museo Nacional de Historia Natural, La Paz

MPEF-PV - Sección Paleontología Vertebrados of the Museo Paleontológico “Egidio Feruglio”, Trelew

MPH - Museo Municipal “Punta Hermengo”, Miramar

MPM-PV - Museo Regional Provincial “Padre M. Jesús Molina”, Río Gallegos, Argentina

MUSM - Museo de Historia Natural de la Universidad Nacional Mayor de San Marcos, Lima

MVZ - Museum of Vertebrate Zoology, University of California, Berkeley

NMV - Museums Victoria, Melbourne

NTM - Museum and Art Gallery of the Northern Territory, Alice Springs

QM - Queensland Museum, Brisbane

ROM - Royal Ontario Museum, Toronto

SAM - South Australian Museum, Adelaide

UCR - Department of Earth Sciences, University of California, Riverside

UM - University of Michigan Museum of Paleontology, Ann Arbor

UMZC - University Museum of Zoology, Cambridge

UMMZ - University of Michigan Museum of Zoology, Ann Arbor

USNM - United States National Museum, Smithsonian Institution, Washington

UWBM - Burke Museum of Natural History and Culture, University of Washington, Seattle

YPFB - Yacimientos Petrolíferos Fiscales de Bolivia, Santa Cruz

YPM-VPPU - Princeton University Collection of Yale Peabody Museum, New Haven

WAM - Western Australian Museum, Perth

ORDER	GENUS	SPECIES	Total number of specimens examined	Ontogenetic stage			
				Adult	Subadult	Juvenile	Unknown
NON-MARSUPIAL METATHERIANS	† <i>Mayulestes</i>	<i>ferox</i> (type)	1	MHNC: 1249 (holotype)	—	—	—
	† <i>Pucadelphys</i>	<i>andinus</i> (type)	26	MHNC: 8393, 8348, 8377, 8266, 8381, 8379, 8380, 8364, 8386, 8376 YPFB Pal: 6105 (holotype), 6110, 6107, 6108, 6109	MHNC: 8265, 8392, 8384, 8388	YPFB Pal: 6474	MHNC: 8389, 8364, 8367, 8368 YPFB Pal: 6470, 6107
	† <i>Mimoperadectes</i>	spp.	2				
	† <i>M.</i>	<i>labrus</i> (type)	1	UM: cast of 66144 (holotype)	—	—	—
	† <i>M.</i>	<i>houdei</i>	1	USNM: 482355 (holotype)	—	—	—
	† <i>Herpetotherium</i>	<i>fugax</i> (type)	8	AMNH FM: 22304, 22305, 133504, 127685, 127684, 133503 MB.Ma: 50671, 50672	—	—	—
DIDELPHIMORPHIA	<i>C.</i>	<i>philander</i> (type)	19	AMNH: 266409, 267337, 267336, 167335, 267002, 95975	AMNH: 266408, 267334, 267332	AMNH: 267330, 267333, 96629, 203351, 96636, 96639, 94897, 96652,	—

						203350, 203352	
	<i>Caluromysiops</i>	<i>irrupta</i> (type)	2	AMNH: 244364, 208101	—	—	—
	<i>Chacodelphys</i>	<i>formosa</i> (type)	1	CNP: 639 (also multiple unregistered fragmentary maxillae and mandibles collected from owl pellets)	—	—	—
	<i>Chironectes</i>	<i>minimus</i> (type)	28	AMNH: 182939, 33027, 212909, 96759, 62365, 264572, 30752, 129704, 37482, 96760, 97319, 164494, 264571	AMNH: 34197, 47190, 37483, 72019	AMNH: 264537, 127563, 126979, 16072, 128994, 266478, 37191, 96757, 136160, 164499, 135582	—
	<i>Cryptonanus</i>	<i>unduaviensis</i>	9	AMNH: 209155, 209154, 209153, 209152, 209150, 210396, 209151, 209156, 260031	—	—	—
	<i>Didelphis</i>	<i>marsupialis</i> (type)	21	AMNH: 266474, 266468, 266471, 266459, 266457, 92771, 93055, 209183	AMNH: 266460, 266472	AMNH: 266475, 266464, 266466, 266470, 266473, 267367, 77347, 210429, 209182, 38781, 72571	—
	<i>Glironia</i>	<i>venusta</i> (type)	3	AMNH: 71395, 71394	LSUMZ: 28421	—	—
	<i>Gracilinanus</i>	<i>agilis</i>	18	AMNH: 133225, 133232, 133230, 133231, 209157,	—	AMNH: 91307, 133224	—

				133238, 202651, 202652, 67242, 202779, 133229, 133227, 133217, 133221, 133234, 133233			
	<i>Hyladelphys</i>	<i>kalinowskii</i> (type)	4	AMNH: 267339, 267003 ROM: 34271	—	MUSM: 11031	—
	<i>Lestodelphys</i>	<i>halli</i> (type)	6	BMNH: 1928.12.11.205, 1928.12.11.206, 1928.12.11.207, 1928.12.11.208 MMNH: 15708	—	MMNH: 17171	—
	<i>Lutreolina</i>	<i>crassicaudata</i> (type)	17	AMNH: 139825, 254513, 254512, 210420	AMNH: 210419, 133249, 133255	AMNH: 210421, 210424, 210423, 205378, 210425, 210422, 205379, 143884	BMNH: 1939.4221
	<i>Marmosa</i>	<i>murina</i> (type)	38	AMNH: 267368, 266416, 41909, 142807, 130543, 130542, 130540, 130539, 130536, 130537, 130533, 130529, 130528, 130524, 130522, 130526, 130525, 257207, 142609, 16123, 21312, 16952, 130544, 130545, 130546,	—	AMNH: 266418, 266417, 69151, 21314, 75696	AMNH: 99980

				130547, 130549, 130571, 130550, 130566, 130572, 130548			
	<i>Marmosops</i>	<i>noctivagus</i>	35	AMNH: 273051, 272809, 272782, 72567, 23006, 16472, 72566, 72564, 47183, 91352, 71948, 230013, 73854, 73853, 72559, 230007, 230010, 230005, 67290, 71961	AMNH: 67285, 71969	AMNH: 272715, 272704, 72550, 71967, 71962, 67278	—
	<i>Metachirus</i>	<i>nudicaudatus</i> (type)	27	AMNH: 266450, 266449, 266440, 266437, 266436, 267009, 267010, 266435, 35803, 136153, 96621, 96747, 136155, 203364	AMNH: 266439	AMNH: 266452, 266453, 266451, 267364, 267362, 76774, 18980, 72551, 210418, 71353, 92041, 47185	—
	<i>Monodelphis</i>	<i>brevicaudata</i> (type)	13	AMNH: 257203, 93972, 93973, 48133, 36317, 92879, 94221, 75830	AMNH: 268061	AMNH: 267744, 16953, 268060, 93971	—
	<i>Philander</i>	<i>opossum</i> (type)	19	AMNH: 266381, 266379, 267014, 267328, 266387, 266386, 210403, 210402	AMNH: 266994, 209146	AMNH: 266997, 266398, 266389, 266400, 266395, 266394, 256980, 210401, 209145	—
	<i>Thylamys</i>	<i>pusillus</i>	8	AMNH: 246448,	AMNH: 246447,	AMNH: 246442,	—

				261268	246449, 41721, 246443	246452	
	<i>Tlacuatzin</i>	<i>canescens (type)</i>	21	AMNH: 148970, 248969, 165653, 24894, 24512, 172128, MS-3114, 24136, 213571, 24923, 24892, MS- 3112, 24137, 204663, MS-3113	AMNH: 185770	AMNH: 145236, 145238, 145235, 145234	AMNH: 145237
	† <i>Hesperocynus</i>	<i>dolgopolaе (type)</i>	3	FMNH: P-15225 MLP: 86-VII-10-1	—	—	FMNH: cast of 14469 (holotype – subadult or juvenile)
	† <i>Sparassocynus</i> †S.	spp. <i>bahiai (type)</i>	16 6	MACN: 2927 MCA: 117 MLP: 11-92 (holotype), 36-VI-1- 1, 11-119	—	—	MACN: 9594
	†S.	<i>derivatus</i>	10	MACN: cast of 17909 MMP: S-172 (holotype), S-339, S- 571, S-678, M-1341 MLP: 0-IV-5-27	—	MMP: M-5292	MLP: 88-V-25-2, 01- IV-5-25
	† <i>Thylatheridium</i>	<i>cristatum (type)</i>	5	MACN: 6442 (holotype), 17758 MLP: 62-VII-27-92, 64-IX-10-3	—	—	MLP: 01-IV-5-1
	† <i>Thylophorops</i>	<i>chapadmalensis</i> (type)	7	MACN: 6641 MLP: 34-VI-20-9 (neotype), 01-IV-5-	—	MMP: 2598-M MPH: 064	MLP: 64-XI-12-1, 00- IX-1-1

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PAUCITUBERCULATA	<i>Caenolestes</i>	spp.	28				
	<i>C.</i>	<i>caniventer</i>	3	—	BMNH: 1954.302 FMNH: 81459, 81460	—	—
	<i>C.</i>	<i>convelatus</i>	1	—	FMNH: 94948	—	—
	<i>C.</i>	<i>fuliginosus</i> (type)	19	FMNH: 70888, 70859, 70847 UMMZ: 127156, 127107, 127109, 127108, 135581, 155575, 155573, 155572, 155574, 155571, 155578, 155579, 155580	BMNH: 1954.295 FMNH: 70858, 92299	—	—
	<i>C.</i>	sp.	5	AMNH: 64488, 64448, 62915, 64499, 64498	—	—	—
	<i>Lestoros</i>	<i>inca</i> (type)	6	BMNH: 1922.1.1.120, 1922.1.1.122, 1922.1.1.128, 1922.1.1.121, 1922.1.1.129, 1922.1.1.127	—	—	—
	<i>Rhyncholestes</i>	<i>raphanurus</i> (type)	14	BMNH: 1975.1723 FMNH: 129834, 135035, 127468, 127474, 129827, 129824, 127470, 124004, 124002,	FMNH: 129828	—	—

				50071, 22423, 127472			
	† <i>Acdestis</i> † <i>A.</i>	spp. <i>maddeni</i>	9 2	MNHN-Bol: V- 004000 (holotype)	—	—	MNHN-Bol: V-003689
	† <i>A.</i>	<i>oweni</i> (type)	5	FMNH: P-13160 MACN A: cast of 5561, cast of 8260 YPM-VPPU: 15225, cast of 15066	—	—	—
	† <i>A.</i>	<i>spgazzinii</i>	2	MACN A: cast of 5559 YPM-VPPU: cast of 15710	—	—	—
	† <i>Evolestes</i> † <i>E.</i>	spp. <i>hadrommatos</i> (type)	16 1	MNHN-Bol: V- 004017 (holotype; previously MNHN- Bol 96-400)	—	—	—
	† <i>E.</i>	sp.	15	—	—	—	MPEF-PV: 3804, 3849, 3913, 3864, 3918, 4152, 3827, 3835, 3850, 3813, 3834, 3830, 3811, 3846, 3844
	† <i>Palaeothentes</i> † <i>P.</i>	spp. <i>lemoinei</i>	26 1	MPM-PV: 3566	—	—	—
	† <i>P.</i>	<i>minutus</i>	25	MACN A: 8323- 8328, 8372, 8355, 8306, 8307, 8308, 8309, 8311, 10245,	—	—	MACN A: 8330a, 8330b, 10246, 5671, 8310, 5690, 8331, 5695, 5696, 8321, 5697, 5677,

				8376, 8377, 8300, 8347-8354a			2042. 8347-8354b, 8347-8354c
	† <i>Pichipilus</i> † <i>P.</i>	spp. <i>centinelus</i>	5 1	MLP: 68-I-17-204 (holotype)	—	—	—
	† <i>P.</i>	<i>riggsi</i>	4	FMNH: P13639 (holotype) MPEF-PV: 4705	—	—	MLP: 82-V-2-114 MPEF-PV: 4804
	† <i>Stilotherium</i>	dis simile (type)	16	MACN A: 8464 (holotype), 5702, 8466, 8467, 8465, 8429	—	—	MACN A: 8463, 5700, 5701, 8447, 8449-8455, 5723, 5709, 8426, 8427, 8431
MICROBIOTHERIA	<i>Dromiciops</i>	gliroides (type)	22	FMNH: 127453, 129804 MVZ: 155600, 154109, 154106, 155601, 154108 UWBM: 78643, 78641, 78635, 78642, 77854, 78640, 78644, 38711	UWBM: 78630	FMNH: 22673, 22675, 127445, 127465 UWBM: 78631, 78633	—
	† <i>Microbiotherium</i>	<i>tehuelchum</i>	14	MACN A: 5729, 5730, 8481, 8483 MLP: 58-IX-3-4	—	—	MACN A: 5738, 5724, 5716, 5731, 8504, 8505, 8479, 8474 MLP: 11-35
NOTORYCTEMORPHIA	<i>Notoryctes</i>	typhlops (type)	12	AMNH: 202107, 16717, 202105, 200241, 198651, 15015, 202103 BMNH: 1897.11.3.13, 1939.3217,	—	NMV: C11082 (CT scan data only)	—

				1939.4210, 1905.11.9.4			
DASYUROMORPHIA	<i>Antechinomys</i>	<i>laniger (type)</i>	10	NMV: C6946, C6949, C7924, C2537, C7355 SAM: M22202, M18133	NMV: C6936 SAM: M22961	SAM: M22203	—
	<i>Antechinus</i>	<i>flavipes</i>	28	AMNH: 65769, 65775, 150056, 196704, 196703, 196698, 196705, 196700, 196701, 196699, 196706, 196707, 154248, 154317, 154316, 154241, 154314, 154244, 154315, 154243, 154246, 154249	AMNH: 196708, 160068	BMNH: 1844.9.3.21, 27.12.15.20, 1844.9.3.23, 1844.9.3.22	—
	<i>Dasyercus</i>	<i>cristicauda (type)</i>	13	NMV: C256, C6158, C655, C5364, C234, C5355, C7923, C480, C676	NMV: C5356	BMNH: 1905.11.9.1, 1897.11.3.3, 1905.5.3.2	—
	<i>Dasykaluta</i>	<i>rosamondae (type)</i>	13	SAM: M14805 WAM: M28497, M6656, M22221, M29330, M28088, M8089, M8088, M25636, M24327, M6634	WAM: M28086, M28087	—	—
	<i>Dasyuroides</i>	<i>byrnei (type)</i>	15	BMNH: 1897.11.3.8,	NMV: C4815	NMV: C4821	—

				1897.11.3.2 NMV: C18707, C6155, C456, C458, C4832, C461, C457 SAM: M10143, M11467, M18284, M7519			
	<i>Dasyurus</i>	<i>maculatus</i>	11	AM: M11137, M36819 AMNH: 183378, 194015, 65688, 183379, 65681, 162576, 66162	AM: M35911 AMNH: 107205	—	—
	<i>Micromurexia</i>	<i>hageni</i>	42	AMNH: 190880, 183455, 190881, 190882, 190883, 190884, 190886, 190888, 190889, 190890, 190891, 190892, 190893, 190896, 190897, 190898, 190899, 190901, 190902, 190903, 190905, 190906, 190907, 190909, 190910, 190911, 190912, 190913, 190914, 190915, 190916, 190917, 190918, 190919, 190920	AMNH: 190895, 190894, 190900	AMNH: 190885, 190887, 190904, 190908	—
	<i>Murexechinus</i>	<i>melanurus</i> (type)	17	AMNH: 157075, 198722, 152039,	AMNH: 104052	AMNH: 105795, 105854, 108562,	—

				104051, 108559, 152032, 101978, 157074, 152033, 221628		152034, 105037, 152036	
	<i>Murexia</i>	<i>longicaudata</i> (type)	9	AMNH: 101971, 101972, 108557, 108558, 108555, 108554, 101973, 108556	—	AMNH: 101970	—
	<i>Myoictis</i>	<i>melas</i>	13	AMNH: 152003, 152006, 105976, 101976, 103267, 152011, 221649	AMNH: 152012, 221649, 152004, 152010, 152001	AMNH: 152009	—
	<i>Myrmecobius</i>	<i>fasciatus</i> (type)	15	AMNH: 155328 (CT scan data only) BMNH: 1876.11.27.3, 1906.8.1.358, 1906.8.1.361, 1906.8.1.359, 1939.3219, 1906.8.1356, 1906.8.1.357, 1842.5.26.15, 1843.8.12.36 UMZC: A6.41/3, A6.41/6	BMNH: 1844.1.22.21	BMNH: 1844.9.2.19, 1844.9.2.18	—
	<i>Neophascogale</i>	<i>lorentzi</i> (type)	29	AMNH: 109504, 109533, 109549, 109524, 109542, 152019, 109509, 152020, 109538, 109522, 109511,	AMNH: 109521	AMNH: 109529, 109536, 109580, 109516	—

				109537, 152022, 152023, 109508, 109517, 109520, 103276, 156334, 109505, 156336, 156343, 156341, 156335			
	<i>Ningau</i>	<i>timealeyi</i> (type)	25	WAM: M18753, M18645, M19180, M52363, M28215, M18227, M49522, M51716, M28212, M14917, M18150, M23841	WAM: M28095, M18228, M18246, M18691	WAM: M18143, M28213, M13857, M28214, M5077, M18481/002, M18704, M28094, M18672	—
	<i>Paramurexia</i>	<i>rothschildi</i> (type)	7	AMNH: 108106 BMNH: 1950.1109, 1950.1111, 1950.1108, 1950.1107, 1950.1112	BMNH: 1950.1110	—	—
	<i>Parantechinus</i>	<i>apicalis</i> (type)	3	BMNH: 1848.1.27.27, 1846.4.4.90, 1844.9.30.6	—	—	—
	<i>Phascogale</i>	<i>tapoatafa</i> (type)	29	AM: M30911, M35234, M11367, M90000, M11630 NMV: C31719, C27902, C13982, C31547, C13981, C6183, C4262, C27070, C13977, R31763, C13700,	NMV: C26035, C3135, C6152, C17860, C17732	AM: M35921, M11381, M35633, M9088 NMV: C13973	—

				C27061, C13980, C6181			
	<i>Phascolosorex</i>	<i>dorsalis</i> (type)	14	AMNH: 104049, 109787, 109762, 109772, 109757, 104048, 109777, 109775, 109780, 109782	AMNH: 109784, 109761	AMNH: 104047, 109758	—
	<i>Phascomurexia</i>	<i>naso</i> (type)	20	AMNH: 221629, 152038, 152029, 152030, 152037, 109824, 109826, 109827, 109829, 109832, 151069, 109809, 109814, 152031, 152026, 152027, 109817, 109816	AMNH: 109818	AMNH: 152028	—
	<i>Planigale</i>	<i>ingrami</i>	10	AMNH: 160308, 160307, 160312, 160066, 160311 WAM: M52053, M16255, M52049, M14434	—	WAM: M19297	—
	<i>Pseudantechinus</i>	<i>macdonnellensis</i> (type)	16	AMNH: 196785, 196693, 162569, 196692, 196694, 196696, 196695, 196782, 196784, 196786 BMNH: 1973.1293, 1973.1297, 1973.1296,	—	—	—

				1973.1298, 1973.1299, 1973.1294			
	<i>Sarcophilus</i>	<i>harrisii</i> (type)	11	AMNH: 70368, 65672, 65673, 35106, 173501, 70406 UMZC: A6.9/2, A6.9/5	AMNH: 60544 UMZC: A6.9/4	AMNH: 65674	—
	<i>Sminthopsis</i>	<i>crassicaudata</i> (type)	11	AMNH: 153413, 15013, 199685, 198639 SAM: M12333, M18441, M12332, M8254, M19819	—	AMNH: 196686 SAM: M11536	—
	<i>Thylacinus</i>	<i>cynocephalus</i> (type)	22	AM: M1129, 767, 5403 SAM: M1959, M1960, M1953, M1955, M95, M922 UMZC: A6.7/14, A6.7/19	AM: M8331 SAM: M1952, M1954 UMZC: A6.7/5, A6.7/7	AM: P778, 774 SAM: M1956, M1957, M1958 UMZC: A6.7/10	
	† <i>Badjcinus</i>	<i>turnbulli</i> (type)	5	QM: F30408 (holotype), F30407, F30410, F30411	—	—	QM: F30409
	† <i>Barinya</i>	<i>wangala</i> (type)	15	QM: F31408 (holotype), F31425, F31418, F23261, F31415, F31419, F31420, F31426, F31412, F31416	—	—	QM: F31414, F31428, F31427, F31413, F31317
	† <i>Mutpuracinus</i>	<i>archibaldi</i> (type)	4	NTM: P907-3 (holotype), P91168-	—	—	unknown: P9464-119, P9464-120

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	† <i>Nimbacinus</i>	<i>dicksoni</i> (type)	4	QM: F36357, F16803, F16804	—	—	QM: F16802
PERAMELEMORPHIA	<i>Chaeropus</i> C.	spp. <i>ecaudatus</i> (type)	8 5	BMNH: 1848.1.27.40, 1848.1.27.41 NMV: C2900 UMZC: A7.19/1	—	AM: PA.422 (holotype)	—
	C.	<i>yirratji</i>	3	NMV: C468 (holotype), C470	BMNH: 1857.10.24.19	—	—
	<i>Echymipera</i>	<i>kalubu</i> (type)	31	AMNH: 190970, 236834, 190984, 192168, 190973, 190986, 221704, 192172, 109731, 190981, 221701, 109750, 190971	AMNH: 221663, 221696, 221708	AMNH: 221654, 190977, 241662, 190978, 190982, 198708, 152492, 221670, 157913, 190979, 192169, 151875, 151914, 190972, 151918	—
	<i>Isoodon</i>	<i>macrourus</i>	33	AMNH: 160198, 65650, 193958, 193951, 65648, 160082, 160087, 160372, 108890, 65636, 160084, 108896, 154389, 194017, 160366	AMNH: 108895, 194018, 162578	AMNH: 154499, 160061, 107253, 160085, 162577, 160077, 108897, 154393, 154395, 108893, 154500, 155089, 194019, 194021, 160371	—
	<i>Macrotis</i>	<i>lagotis</i> (type)	11	AMNH: 193991, 197121, 35717 WAM: M10924, M7036	AM: M9062, M8620 WAM: M1399	SAM: M3605, M3077 WAM: M632	—
	<i>Microperoryctes</i>	<i>ornata</i>	20	AMNH: 190953,	AMNH: 104061,	AMNH: 190954,	—

				190955, 190949, 104060, 190948, 190962, 183459, 190960, 190959, 190966, 190965, 190964, 183816, 190937, 221472, 190963	190939	108546	
	<i>Perameles</i>	<i>gunnii</i>	11	MVZ: 127059, 127070, 127099, 127073, 127100, 132246, 127071, 132248, 127072	—	AMNH: 160101 MVZ: 127060	—
	<i>Peroryctes</i>	<i>raffrayana</i> (type)	20	AMNH: 151938, 151937, 190933, 157125, 183464, 104064, 152487	AMNH: 151939, 103254, 151950, 151936, 221699, 151958, 160271	AMNH: 151941, 157124, 108543, 221700, 109833, 108552	—
	<i>Rhynchomeles</i>	<i>prattorum</i> (type)	6	BMNH: 1920.7.26.39, 1920.7.26.35	BMNH: 1920.7.26.38, 1920.7.26.37, 1920.7.26.36	AM: M29415	—
	† <i>Bulungu</i>	<i>palara</i> (type)	12	QM: F23437 (holotype), F23436, F52992, F24289, F53002, F53025, F52993, F53586	—	—	QM: F23435, F23438, F23440, F52990
	† <i>Galadi</i>	<i>speciosus</i> (type)	12	QM: F23393 (holotype), 24681, 24231, 53826, 53829, 53830, 53836, 30730, 53828, 36227, 53835	QM: F36352	—	—
	† <i>Yarala</i>	<i>burchfieldi</i> (type)	28	AR: 15945, 15326,	AR: 15951,	—	AR: 15927

				16010, 12082, 16011, 16572, 16006 QM: F23385, F16861, F50321, F16862, F16863, F30815, F36340, F24668, F53575, F30563, F54523, F53029, F53040	13247 QM: F16860 (holotype), F16864		QM: F23385, F53631, F53036
DIPROTODONTIA	<i>Acrobates</i>	<i>pygmaeus</i> (type)	4	AM: M23546, M32079 AMNH: 37185	—	AM: M23545	—
	<i>Aepyprymnus</i>	<i>rufescens</i> (type)	19	AMNH: 107706, 107391, 65287	AMNH: 20789, 107390, 22788, 70419, 65285	AMNH: 107389, 70405, 65284, 160121, 65288, 18078, 35557, 153055, 65282, 153602 BMNH: 1926.3.11.100	—
	<i>Ailurops</i>	<i>ursinus</i> (type)	22	AMNH: 152884, 153381, 196491, 153374, 109233, 153358, 30596, 108797	AMNH: 196495, 108802, 108791, 153361	AMNH: 108799, 108798, 108795, 108800, 109234, 108801, 108793, 108792 BMNH: 1950.1011, 1950.1012	—
	<i>Bettongia</i>	<i>lesueur</i>	8	AMNH: 196948, 196947, 197663 SAM: M1709	—	AMNH: 196951, 6371 SAM: M2169, M2135	—
	<i>Burramys</i>	<i>parvus</i> (type)	19	AM: M19609, M9942, M19608, M10745, M36985	NMV: C26924, C26919, C26923, C26928, C26922,	—	—

				NMV: C31512, C34790, C28806, C26930, C23826, C31513, C22675, C22692	C26929		
	<i>Caloprymnus</i>	<i>campestris</i> (type)	4	SAM: M3257	—	BMNH: 1846.4.4.45, 1846.4.4.46 SAM: M3256	—
	<i>Cercartetus</i>	<i>caudatus</i>	17	AMNH: 191005, 191010, 191007, 191008, 191031, 191019, 109797, 199991, 109798, 199993 BMNH: 1929.8.1.2, 1939.2994, 1953.196, 1953.197, 1953.198	—	AMNH: 22271, 191032	—
	<i>Dactylonax</i>	<i>palpator</i> (type)	13	AMNH: 79778, 191043, 221601, 153076, 109426, 109425, 194760, 109428, 109429, 103275, 109413	—	AMNH: 221611, 109415	—
	<i>Dactylopsila</i>	<i>trivirgata</i> (type)	23	AMNH: 160105, 154407, 198712, 198710, 104484, 154412, 154414, 191035, 105940, 104480, 194362, 108909, 159480, 154419, 191036, 155928	AMNH: 157142	AMNH: 101988, 154417, 157140, 154406, 192155, 104039	—

	<i>Dendrolagus</i>	<i>lumholtzi</i>	10	AM: M2272, M2273, M9102, M6871, M2219	—	AM: M2098, M9108, M2802, M1683, M2287	—
	<i>Distoechurus</i>	<i>pennatus</i> (type)	10	AMNH: 191046, 221721, 157169, 191045, 198714, 101983, 198713, 191047	—	AMNH: 104058, 102156	—
	<i>Dorcopsis</i>	<i>hageni</i>	23	AMNH: 198096, 198098, 198094, 109380, 109466, 109377, 109400, 109376, 109378, 198088	AMNH: 109392, 109381	AMNH: 109411, 109397, 198718, 109384, 109396, 109405, 109406, 109390, 109870, 109383, 109395	—
	<i>Dorcopsulus</i>	<i>vanheurni</i>	22	AMNH: 151828, 151833, 251301, 191166, 104081	—	AMNH: 151837, 157267, 151843, 151830, 151834, 251133, 183458, 151854, 151848, 151850, 151851, 158998, 156102, 104076, 221623, 151853, 104034	—
	<i>Gymnobelideus</i>	<i>leadbeateri</i> (type)	23	AM: M9488, M9489 NMV: C31368, C28294, C33035, C26031, C29756, C31368, C26034, C30848, C3026, C33028, C33032, C26262, C6193, C23921, C22403, C26494, C30862,	—	NMV: C33038	—

				C18638, C8175, C4321			
	<i>Hemibelideus</i>	<i>lemuroides</i> (type)	14	AMNH: 65510, 65492, 65490, 65481, 183365, 183368, 65497, 183366, 65484, 254615, 245617	AMNH: 65494	AMNH: 107224, 107252	—
	<i>Hypsiprymnodon</i>	<i>moschatus</i> (type)	8	AMNH: 1544497, 184580, 154496, 107241, 107242 BMNH: 1939.4137, 1939.4138	—	AMNH: 160120	—
	<i>Lagorchestes</i>	<i>conspicillatus</i>	9	AMNH: 197659, 196963, 196973, 196976, 197658, 196970	AMNH: 196966	AMNH: 197657, 196977	—
	<i>Lagostrophus</i>	<i>fasciatus</i> (type)	6	WAM: M3635	AMNH: 155104 WAM: M6791	AMNH: 155105 WAM: M17157, M24321	—
	<i>Lasiorhinus</i>	<i>latifrons</i> (type)	43	AMNH: MO-243, 160115, 160118, 160114, 160113, 160119	—	SAM: M1924, M4157, M7954	SAM (all adult or subadult): M242, M243, M299, M395, M731, M1922, M2022, M2110, M2107, M2111, M5992, M5553, M5993, M8744, M8677, M8678, M8744, M8751, M8839, M23219, M22814, M8786, M8800, M8843, M8850, M8853, M8858, M8908, M8926, M8934, M8930, M8948, M8950,

							M8953
	<i>Macropus.</i>	<i>giganteus</i> (type)	18	AMNH: 66179, 194004, 194054, 194002, 194003	AMNH: 66173, 66174	AMNH: 194055, 153618, 194056, 153620, 194073, 66178, 66181, 65014, 66180, 162609, 65017	—
	<i>Notamacropus</i>	<i>agilis</i> (type)	26	AMNH: 156726, 156717, 160431, 107388, 194039, 153660, 194026, 156730, 194040, 156725	AMNH: 107387, 156735	AMNH: 183419, 153651, 65040, 183416, 156739, 194048, 183405, 156727, 155113, 160132, 65039, 153662, 154504, 156720	—
	<i>Onychogalea</i>	<i>unguifera</i> (type)	11	AMNH: 183444, 197525	AMNH: 197524, 197527, 197530	AMNH: 183443, 197532, 197522, 197526, 197528, 197529	—
	<i>Osphranter</i>	<i>robustus</i>	30	AMNH: 153623, 90305, 146637, 162610, 197069, 197050	AMNH: 35761, 80147, 183403	AMNH: 107374, 183399, 183400, 153627, 80171, 180040, 70379, 80088, 35738, 35635, 197062, 197034, 197074, 197046, 65033, 154509, 197031, 197032, 65025, 197042, 197549	—
	<i>Petauroides</i>	<i>volans</i> (type)	20	AMNH: 183395, 65391, 65396, 183396, 65364, 183397, 107262,	AMNH: 65393	—	—

				65398, 65389, 107258, 65373, 65369, 160054, 65361, 160421, 65378, 65374, 160422, 160423			
	<i>Petaurus</i>	<i>breviceps</i>	20	AMNH: 159546, 159527, 159484, 159511, 159547, 159487, 159528, 159508, 159531, 159521, 159512, 707279	AMNH: 159520, 159499, 104470	AMNH: 159493, 101969, 109667, 160272, 105919	—
	<i>Petrogale</i>	<i>inornata</i>	10	AMNH: 183424, 183421, 65230, 65233, 107708, 107704	AMNH: 183422	AMNH: 183423, 65226, 153072	—
	<i>Petropseudes</i>	<i>dahli</i> (type)	20	AMNH: 183390, 183389, 183392, 183391 BMNH: 1939.3042, 1939.3044, 1904.1.3.73, 1904.1.3.76, 1904.1.3.109, 1904.1.3.77, 1939.3041, 1904.1.3.78, 1904.1.3.72, 1939.3043	BMNH: 1939.3045, 1939.3046	AMNH: 196926 BMNH: 1904.1.3.75, 1904.1.3.74, 1904.1.3.79	—
	<i>Phalanger</i>	spp.	25				

	<i>P.</i>	<i>intercastellanus</i>	8	AMNH: 157208, 191189, 191194	AMNH: 157198, 157199	AMNH: 104121, 157210, 157196 AMNH: 105210	—
	<i>P.</i>	<i>mimicus</i>	1				
	<i>P.</i>	<i>orientalis</i> (type)	16	AMNH: 151838, 220714, 101998, 151832, 199122	—	AMNH: 151969, 191191, 221347, 109443, 221714, 109653, 109432, 151818, 221348, 198728	AMNH: 221254
	<i>Phascolarctos</i>	<i>cinereus</i> (type)	9	AM: M6805 AMNH: 42178, 173504, 200307	—	AM: M6806 SAM: M4625, M12954, M18988 BMNH: 253.c	—
	<i>Potorous</i>	<i>tridactylus</i> (type)	35	AMNH: 65304, 65303, 65300, 65305, 65338, 65327, 65298, 65299, 65328, 65292, 65291, 65289, 65271, 65290, 65312, 65308, 65298 BMNH: 1905.5.31.11	BMNH: 1903.1.3.7	AMNH: 65306, 65311, 65309, 65313, 65335, 65300, 65322, 65321, 65320, 160122, 65329, 65361, 65317, 66169, 65332 BMNH: 1903.1.3.6	—
	<i>Pseudocheirus</i>	<i>peregrinus</i> (type)	21	AMNH: 65468, 65417, 65471, 65470, 107226, 162587, 162585, 65457, 65440, 162580, 65465, 162582	AMNH: 257612	AMNH: 154383, 162584, 107280, 154382, 154386, 154379, 154385, 160106	—

	<i>Pseudochirops</i>	<i>archeri</i>	16	AMNH: 65531, 107197, 107200, 154374, 107199, 107198, 253664, 253663, 107196, 107202, 183370, 107201, 154373, 183371 BMNH: 1890.9.20.7, 1939.3057	—	—	—
	<i>Pseudochirops</i>	<i>cupreus</i>	23	AMNH: 191156, 191144, 155763, 192160, 155736, 155673, 156158, 221584, 155637, 104113, 156180, 251265, 156176, 221583 BMNH: 1976.380	AMNH: 191142, 109633, 155654	AMNH: 191160, 221607, 191155, 193143, 104035	—
	<i>Pseudochirulus</i>	<i>canescens</i> (type)	12	AMNH: 151966, 151967, 221726, 104122, 151968, 198063, 108540, 104124, 104125, 104128, 104139, 104137	—	—	—
	<i>Setonix</i>	<i>brachyurus</i> (type)	18	AMNH: 196397, 35744, 160044, 196396, 196399, 196395, 35722, 160254, 160258, 74492, 74488, 74490	AMNH: 197118, 160133, 160037	AMNH: 196398, 74489, 160038	—

	<i>Spilocuscus</i>	<i>maculatus</i> (type)	22	AMNH: 198110, 109452, 109471, 109450, 109449	AMNH: 152494	AMNH: 151856, 151808, 151800, 151796, 151861, 157173, 151804, 221717, 109458, 151785, 109455, 109457, 152490, 109447, 109446, 109448	—
	<i>Strigocuscus</i>	<i>celebensis</i> (type)	9	AMNH: 196504, 196505, 196502, 196501, 196499, 101242, 101241	AMNH: 196498, 196503	—	—
	<i>Tarsipes</i>	<i>rostratus</i> (type)	9	—	—	—	AMNH: 119716, 119713 BMNH: 1847.12.28.3 (probable adult), 1381.c (probable adult) WAM: M6702, M6657, M20988, M28495, M24914
	<i>Thylogale</i>	<i>stigmatica</i>	33	AMNH: 153647, 65150, 65197, 65178, 65159, 65162, 65158, 65153, 77747, 153636	AMNH: 155137, 108582, 108047, 153638, 153639, 104608	AMNH: 153634, 65143, 155129, 104437, 65195, 65139, 65181, 65160, 155133, 35677, 153645, 153635, 154501, 153646, 104414, 153641, 154502	—
	<i>Trichosurus</i>	<i>vulpecula</i> (type)	25	AMNH: 65546, 65543, 65584, 146715, 65566,	AMNH: 257607, 153601, 162597, 160425, 257608	AMNH: 65544, 65547, 154446, 154451, 196900,	—

				257610, 183411, 173503, 48054, 160348, 154452		183386, 65563, 65567 BMNH: 1971.2517	
	<i>Vombatus</i>	<i>ursinus</i> (type)	13	AMNH: 173505, 65633, 35789, 65627, 65628, 42978, 66197, 35701 BMNH: 1856.12.10.690, 1926.3.11.128	MVZ: 135036	AMNH: 65623 BMNH: 1999.341	—
	<i>Wallabia</i>	<i>bicolor</i> (type)		AMNH: 156706, 107386, 65127, 160432, 65125	AMNH: 42918, 65122, 70264, 100112	AMNH: 65128, 48071, 107385	—
	<i>Wyulda</i>	<i>squamicaudata</i> (type)	10	AM: M22321 AMNH: 196920 WAM: M24503, M2988, M13721, M23221, M21325, M7221	—	WAM: M21525	WAM: M18099
	† <i>Balbaroo</i>	<i>fangaroo</i>	2	QM: F36994 (holotype), F30456	—	—	—
	? <i>Bettongia</i>	† <i>moyesi</i>	2	QM: F13026 (holotype)	—	—	QM: F13007
	† <i>Bohra</i>	<i>illuminata</i>	2	WAM: 03.5.10 (holotype)	—	WAM: 02.7.16	—
	† <i>Ekaltadeta</i>	<i>ima</i> (type)	25	AR: 11236, 11267, 3655, 12805, 5471, 16745, 12837 QM: F12423 (holotype), F12436, F36330, F12435, F22761, F23888	—	AR: 10899, 12116, 10561, 5247, 17444, 12119, 16759, 13564, 16902 QM: F24199, F 30222	QM: F12424

	† <i>Ganawamaya</i>	<i>gillespieae</i>	1	QM: F34532 (holotype)	—	—	—
	† <i>Ganguroo</i>	spp.	49				
	† <i>G.</i>	<i>bilamina</i> (type)	45	QM: F19915 (holotype), F19966, F19868, F19988, F20293, F30399, F30397, F19814, F19870, F56263, F56258, F19674, F56255, F56265, F56264, F30398, F56257, F36470, F20081, F56259, F31405, F30721	QM: F30396	QM: F19591, F19835, F19642, F56256, F24476, F24216, F56261, F30343, F36364, F24744, F19688, F56254, F24475	QM: F19810, F30400, F30436, F50518, F36230, F24477, F56260, F24482, F36363
	† <i>G.</i>	<i>bites</i>	1	—	—	QM: F23777	—
	† <i>G.</i>	<i>robustiter</i>	3	QM: F36359	QM: F52810	QM: F30845	—
	† <i>Hadronomas</i>	<i>puckridgi</i> (type)	11	NTM: P98133, P9337, P98140, P98139, P98135, P98134 (SGM P901), P98137, P8722-2	—	NTM: P98146	NTM: P98148, P98136
	<i>Hypsiprymnodon</i>	† <i>bartholomaii</i>	3	QM: F13051 (holotype)	—	—	QM: F13052, F13053
	† <i>Lekanoleo</i>	<i>roskellyae</i>	8	QM: F23453 (holotype), F20191	—	—	QM: F23442, F40116, F31605, F29623, F51418, F23455
	† <i>Litokoala</i>	spp.	14				

	† <i>L.</i>	<i>dicksmithi</i>	1	QM: F54567 (holotype)	—	—	—
	† <i>L.</i>	<i>kutjamarpensis</i> (type)	13	AR: 19361, 19374 QM: F51382	—	—	SAM: cast of P32397 (=UCR 21926), QMF: F30501, 13079, 24290, 20809, 23482, 30502, 30500, 30503
	† <i>Muramura</i>	spp.	4				
	† <i>M.</i>	<i>pinpensis</i>	2	SAM: P36160 (= AMNH FM 102219), P36161	—	—	—
	† <i>M.</i>	<i>williamsi</i> (type)	2	SAM: P24525, P24524	—	—	—
	† <i>Namilamadeta</i>	spp.	46				
	† <i>N.</i>	<i>albivenator</i>	10	QM: F51343, F40278, F41304	—	QM: F51341, F51342	QM: F51337, F51344, F51338, F23499, F51340
	† <i>N.</i>	<i>crassirostrum</i>	35	QM: F31462 (holotype), F51360, F20498, F51359, F30303, F12461, F20574, F51345, F20497, F51351, F51346, F30757, F51363, F30755, F30759, F51375, F51371, F51362, F51361, F40279	—	QM: F51349, F51347, F51348	QM: F51369, F30758, F51339, F30836, F24507, F30534, F30756, F51368, F30760, F51370, F30762, F31480

	† <i>N.</i>	<i>superior</i>	1	QM: F40276	—	—	—
	† <i>Neohelos</i>	<i>stirtoni</i>	30	NTM: P8695-41, P8695-44, P87103-19, P8697-1, P87108-1, P8695-38, P2774, P8694-3, P87115-9, P87113-11, P87108-11, P8695-67, P87103-20, P862-5, P8695-72, P87115-7, P862-6, P87103-26	—	NTM: P87103-25, P8695-49, P87114-11	NTM: P8792-15, P87111, P8695-52, P87108, P8694-1, P8695-47, P895-42, P8695-46, P87110
	† <i>Ngapakaldia</i>	spp.	8				
	† <i>N.</i>	<i>bonythoni</i>	5	QM: F20867, F23031, F12432 SAM: P13863 (holotype)	—	QM: F53872	—
	† <i>N.</i>	sp.	1	SAM: P35312	—	—	—
	† <i>N.</i>	<i>tedfordi</i> (type)	2	SAM: P13851 (holotype)	—	SAM: P35313	—
	† <i>Nimbadon</i>	<i>lavarackorum</i> (type)	15	QM: F53645, F53642, F31541, F50470, F41205, F53636, F53793, F53643, F31377, F42677	QM: F53792, F30775	QM: F53646, F41115, F53648	—
	† <i>Nimiokoala</i>	<i>greystanei</i> (type)	41	AR: 19397 QM: F30494, F29624, F30493, F30484, F30485,	—	AR: 19767, 19365, 11412, 13052, 19870, 19395, 19748, 19010, 18161, 19453, 19198,	—

				F30486, F30487		19196, 194145 QM: F30482 (holotype), F30483, F30489, F23382, F50594, F20903, F24267, F30492, F24516, F30490, F30496, F30488, F24232, F24351, F24265, F23026, F23027, F24233, F50592, F24266	
	† <i>Onirocuscus</i>	<i>reidi</i> (type)	5	QM: F13078 (holotype), F24084, F13076, F42702, F13060	—	—	—
	† <i>Rhizosthenurus</i>	<i>flanneryi</i> (type)	5	AR: 19243, 19244 QM: F31456	—	—	AR: 19245, 19246
	† <i>Silvabestius</i>	spp.	3				
	†S.	<i>johnnilandi</i> (type)	1	QM: F20493	—	—	—
	†S.	<i>michaelbirti</i>	2	QM: F30505	—	QM: F30504	—
	† <i>Thylacoleo</i>	<i>carnifex</i> (type)	18	SAM: P16571, P16723, P16732, P16731, P16730, P16717, P28173, P20804, P45886, P12384	—	—	FU: 119, 120 (all subadult or juvenile) SAM: P12784, P16714, P30146, P28182, P22761, P22793 (all subadult or juvenile)
	“ <i>Trichosurus</i> ”	† <i>dicksoni</i>	22	QM: F13077 (holotype), F41222, F24016, F23206,	—	AR: 18164	—

				F13092, F24040, F23087, F24028, F24002, F24029, F24030, F24031, F24027, F13068			
	† <i>Wakaleo</i>	<i>vanderleuri</i>	18	CPC: 26604 (cranium – probably same individual as NTM P85553-4) NTM: P85553-4 (left dentary - probably same individual as CPC 26604), P9969-4, P87108-5, P87108-6, P85553-4, P8695-97 QM: F36454, F36453, F29712	—	—	NTM: P9464-123 QM: F31352, F51410, F36281, F30384, F51409, F20299, F41204
	† <i>Warendja</i>	<i>wakefieldi</i> (type)	4	SAM: P24105, P31836	—	—	SAM: P24598, P24599
†YALKAPARIDONTIA	† <i>Yalkaparidon</i>	spp.	15				
	†Y.	<i>coheni</i> (type)	2	QM: F13008 (holotype), F50794	—	—	—
	†Y.	sp.	13	QM: F36546, F52755, F52756, F36544, F36545, F13011, F20723, F36548, F39984, F52963	—	—	QM: F52942, F40095, F52958