

**Supplementary Table S1.** List of specimens of the *Meranoplus ajax* complex sequenced in this study and their collection locations. Specimens are identified by their BOLD ID codes and arranged according to species.

Species code	BOLD Specimen ID	Collection locality
A1	ASST021-18	Daly Waters, NT
	MERA143-17	Daly Waters, NT
	MTROP115-23	Ngukurr, NT
	OZBOL3871-21	Hayfield Station, NT
	OZBOL3872-21	Hayfield Station, NT
	OZBOL3873-21	Hayfield Station, NT
	OZBOL9203-22	Hayfield Station, NT
	OZBOL9204-22	Amungee Mungee Station, NT
	OZBOL9205-22	Powell Creek Station, NT
	OZBOL9209-22	Shenandoah Station, NT
	OZBOL9222-22	Beetaloo Station, NT
	OZBOL9207-22	Beetaloo Station, NT
A2	OZBOL9208-22	Beetaloo Station, NT
	OZBOL9221-22	Beetaloo Station, NT
A3	MTROP112-23	Auvergne Station, NT
	MTROP102-23	Keep River National Park, NT
A4	MTROP124-23	Daly Waters, NT
A5	TEMEA009-19	Talaroo Station, Qld
A6	TEMEA008-19	Laura, N Qld
A7	MTROP148-23	Weipa, N Qld
A8	MTROP146-23	Weipa, N Qld
B1	MTROP150-23	German Creek Mine, nr. Middlemount, Qld
	MTROP153-23	Oak Park Station, Qld
B2	MTROP149-23	Townsville, N Qld
B3	MERAN072-16	Cape York Peninsula, N Qld
B4	MTROP147-23	Lakeland, N Qld
B5	TEMEA010-19	Lakefield National Park, N Qld
B6	MTROP154-23	Bourke Devt Rd, Cape York Peninsula, N QLD
	OZBOL1961-21	Rinyirru National Park, N QLD
C1	MTROP118-23	Montejinni, NT
C2	MTROP103-23	Kalkaringi, NT
C3	MTROP109-23	Bradshaw Field Training Area, NT
C4	MTROP145-23	Kununurra, WA
C5	MTROP100-23	Kakadu National Park, NT
C6	TEMEA013-14	south Kimberley, WA
	MERAN066-16	Uluru National Park, NT
	MTROP123-23	Uluru National Park, NT
	MTROP144-23	Kiwirrkurra, Great Sandy Desert, WA
	OZBOL1950-21	Umuwa, APYLands, SA
	OZBOL1951-21	Umuwa, APYLands, SA
	OZBOL1952-21	Umuwa, APYLands, SA

	OZBOL1959-21	Tanami Desert, NT
	OZBOL1960-21	Tanami Desert, NT
	OZBOL3869-21	Forest Hill Station, NT
	OZBOL3870-21	Forest Hill Station, NT
	TEMEA007-19	Umuwa, APYlands, SA
	TEMEA017-19	Umuwa, APYlands, SA
D1	MTROP106-23	Koolpin Gorge, National Park, Kakadu NT
	MTROP127-23	Nitmiluk National Park, NT
D2	ASST019-18	Bridge Creek, nr Darwin, NT
D3	OZBOL1953-21	Ranger Uranium Mine, National Park, Kakadu NT
D4	MTROP131-23	Berry Springs, NT
	MTROP132-23	Victoria River Bridge, Victoria Hwy, NT
D5	MTROP135-23	Victoria River Bridge, Victoria Hwy, NT
	TEMEA006-19	Gregory National Park, NT
D6	OZBOL6466-22	Wyndham, WA
	BEET124-23	Manbulloo Station, NT
	MERA146-17	Gove Mine, NT
	MERA155-17	Gove Mine, NT
	MTROP104-23	Nitmiluk National Park, NT
	MTROP117-23	Arnhem Land, NT
D7	MTROP125-23	Limmen National Park, NT
	MTROP126-23	Nitmiluk National Park, NT
	MTROP130-23	Gove Peninsula, NT
	MTROP134-23	Nhulunbuy, NT
	OZBOL9202-22	Manbulloo Station, NT
	OZBOL9206-22	Hidden Valley Station, NT
E1	MERA137-17	Nitmiluk National Park, NT
E2	ASST017-18	Pine Creek, NT
E3	MTROP121-23	Darwin, NT
	MTROP129-23	Daly River, NT
	MERA149-17	Theda Station, WA
E4	MTROP140-23	Lake Argyle, WA
	MTROP141-23	El Questro Station, WA
	OZBOL6467-22	Wyndham, WA
	ASST020-18	north of Pine Creek
	MERA140-17	south of Pine Creek
	MERA144-17	south of Pine Creek
	MERA145-17	Pine Creek, NT
	MERAN068-16	Kakadu National Park, NT
E5	MTROP122-23	Kakadu National park
	OZBOL1955-21	Kakadu National Park
	OZBOL3866-21	Forrest Hill Station, NT
	OZBOL3867-21	Forrest Hill Station, NT
	OZBOL3868-21	Hayfield Station, NT
	TEMEA005-19	Mataranka Station, NT
	BEET187-23	Central Valley, Litchfield National Park, NT
F1	MERA136-17	Litchfield National Park, NT
	MTROP107-23	Umbruwarra Gorge, NT
F2	MERA142-17	Litchfield National Park

F3	MERA152-17	Hughes, nr. Darwin, NT
	MTROP133-23	Litchfield National Park
	MTROP290-23	Annaburroo Station, NT
	MTROP330-23	Kakadu National Park
F4	MTROP331-23	Kakadu National Park
	OZBOL1954-21	Ranger Uranium Mine, Kakadu National Park, NT
	TEMEA004-19	Ranger Uranium Mine, Kakadu National Park, NT
X1	MTROP152-23	Lawn Hill Station, Qld
X2	MTROP120-23	Manbulloo Station, NT
	MTROP098-23	Gulf region, NT
	MTROP099-23	Bonrook Station, Pine Creek, NT
	MTROP101-23	Roper River, NT
X3	MTROP105-23	Nitmiluk National Park, NT
	MTROP108-23	Roper River, NT
	MTROP116-23	Barunga, NT
	MTROP128-23	Dinner Creek, Kakadu National Park, NT
X4	OZBOL1958-21	Limmen National Park, NT
	OZBOL9201-22	Manbulloo Station, NT
X5	TEMEA016-19	Mitchell Falls, WA
	MTROP136-23	Bohemia Downs Station, WA
X6	MTROP137-23	Bohemia Downs Station, WA
	MTROP139-23	Joon Joo, nr. Derby, WA
	OZBOL6456-22	Broome, WA
X7	MTROP138-23	Halls Creek, WA
X8	MERA151-17	Kimberley region, WA
	MTROP097-23	Bachesten Creek, Kimberley region, WA
X9	OZBOL6463-22	Silent Grove, Kimberley region, WA
	OZBOL6464-22	Silent Grove, Kimberley region, WA
X10	MTROP142-23	Mitchell Plateau, Kimberley region, WA
	MTROP143-23	Mitchell Plateau, Kimberley region, WA
	OZBOL6468-22	Pentacost River, Gibb River Rd., East Kimberley region, WA
X11	OZBOL6469-22	Pentacost River, Gibb River Rd., East Kimberley region, WA
	TEMEA012-19	El Questro Station, WA
X12	MERA147-17	Keep River National Park, NT
X13	MERA148-17	Theda Station, WA