

Additional File 1. List of characters and state descriptions for ancestral state reconstruction.

#	Character	States
767	Diel Activity Pattern	0 Diurnal 1 Crepuscular 2 Nocturnal
768	Tectonic Plate I	0 Laurasia 1 Gondwana
769	Tectonic Plate II	0 North American 1 South American 2 African 3 Europe 4 Asia 5 India 6 Australia 7 Caribbean 8 Indo-Pacific
770	Biome	0 Tropical-Subtropical Moist Broadleaf Forests 1 Tropical-Subtropical Dry Broadleaf Forests 2 Tropical-Subtropical Grasslands, Savannas, Shrublands 3 Tropical-Subtropical Coniferous Forests 4 Temperate Broadleaf Mixed Forests 5 Temperate Grasslands, Savannas, Shrublands 6 Mediterranean Forests, Woodlands, Shrublands 7 Desert Xeric Shrublands 8 Temperate Coniferous Forests
771	Foraging Mode	0 Ambush 1 Widely Foraging 2 Ambush and Widely Foraging
772	Prey Pursuit Method	0 Charge 1 Stealth
773	Prey Subdued By Constriction	0 Absent 1 Present
774	Prey Preference	0 Relatively Hard Exoskeletons, Teeth Suited to Crushing and Piercing 1 Relatively Soft-Bodied Animals, Teeth Suited to Prehension 2 Primarily Termites, Ants, Including Their Larvae and Eggs
775	Prey Size	0 Head Wider Than Prey 1 Head Width Subequal to Prey Width 2 Prey Much Wider Than Head
776	Habitat Strata	0 Fossorial 1 Semi-Fossorial 2 Terrestrial 3 Semi-Arboreal or Saxicolus 4 Arboreal
777	Aquatic Habits	0 Non-Aquatic (Terrestrial) 1 Semi-Aquatic Freshwater 2 Aquatic Freshwater 3 Aquatic Brackish Water 4 Aquatic Marine