

## Online Resource 1

Patterns of evolutionary divergence and convergence in the bushy-tailed woodrat (*Neotoma cinerea*) across Western North America

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### ESM 1 Specimens examined for morphological and genetic analyses

Total  $n = 405$  specimens were included in morphological analyses. All are housed in North American natural history museums coded by the following abbreviations: Brigham Young University Monte L. Bean Life Science Museum (BYU); Denver Museum of Nature and Science (DMNS); Field Museum of Natural History (FMNH); University of California, Berkeley, Museum of Vertebrate Zoology (MVZ); University of Puget Sound Slater Museum (PSM); Royal Alberta Museum (RAM); Royal British Columbia Museum (RBCM); Royal Ontario Museum (ROM); University of Alaska-Fairbanks Museum of the North (UAM); University of Colorado Museum of Natural History (UCM); University of Michigan Museum of Zoology (UMMZ); University of Utah Museum of Natural History (UMNH); University of Washington Burke Museum (UWBM). GenBank accession numbers for cytochrome *b* sequences used in this study are in parentheses.

**Eastern clade / *N. c. orolestes* group subspecies**

*Neotoma cinerea arizonae* ( $n = 11$ )

USA: Utah: Grand Co.: MVZ 199348 (JN593151); UMNH 967, 11781; UMMZ 115640–115643. Utah: San Juan Co.: MVZ 44080–44081, 95143, 95145.

*Neotoma cinerea cinnamomea* ( $n = 20$ )

USA: Colorado: Moffat Co.: DMNS ZM.11383 (JN593132); MSB 107867, 108275–108280, 108282; MVZ 223417 (JQ241205). Wyoming: Sweetwater Co.: MVZ 223425 (JN593181), 223428 (JN593182), 223430 (JN593183), 223431 (JN593184), 223433 (JN593185), 223426 (JQ241210), 223427 (JQ241211), 223429 (JQ241212), 223432 (JQ241213); UMNH 15022.

*Neotoma cinerea macrodon* ( $n = 7$ )

USA: Utah: Grand Co.: BYU 13887 (JN593124), 14868 (JN593126). Utah: Uintah Co.: BYU 16618 (JN593128); UMNH 6658–6660, 15456.

*Neotoma cinerea orolestes* ( $n = 67$ )

USA: Colorado: Delta Co.: DMNS ZM.11517 (JQ241182), ZM.11518 (JN593133). Colorado: El Paso Co.: DMNS ZM.11178 (JN593120); MVZ 7064; UCM 10008–10009, 10011, 10013–10014, 10028–10030; UMMZ 56190–56194. Colorado: Gunnison Co.: MVZ 125882, 223435 (JN593187), 223436 (JQ241214), 223437 (JQ241215), 223438 (JN593188), 223439 (JQ241216); UCM 10003–10004, 10006, 10046, 10055; UMMZ 99519, 99520. Montana: Carbon Co.: MVZ 223440 (JN593189), 223441 (JN593190). New Mexico: San Miguel Co.: MSB 70026 (JN593140). New Mexico: Sandoval Co.: MSB 86004 (JN593144), 99135 (JN593149), 141113 (JN593137). New Mexico: Taos Co.: MSB 73684 (JN593141). South Dakota: Custer Co.: UMMZ 93224–93226, 96084, 97140–97143, 104407–104408. South Dakota: Lawrence Co.: MVZ 223444 (JQ241217). Wyoming: Albany Co.: MVZ 223445 (JN593193), 223448 (JQ241220), 223449 (JN593194), 223450 (JN593195). Wyoming: Fremont Co.: MNZ 223419 (JQ241207), 223422 (JN593178), 223423 (JN593179), 223424 (JN593180), 223451 (JN593196). Wyoming: Johnson Co.: MVZ 223452 (JN593197), 223453 (JN593198), 223454 (JN593199), 223455 (JQ241221), 223456 (JN593200), 223457 (JN593201), 223458 (JQ241222), 223459 (JQ241223), 223460 (JQ241224), 223461 (JQ241225).

*Neotoma cinerea rupicola* ( $n = 5$ )

USA: Colorado: Phillips Co.: UCM 9996–9997, 10000. South Dakota: Harding Co.: MVZ 223462 (JQ241226), 223463 (JN593202).

**Western clade / *N. c. occidentalis* group subspecies**

*Neotoma cinerea acraea* ( $n = 97$ )

USA: California: Inyo Co.: MVZ 15546–15552, 15554–15556, 15559, 15562–15563, 15565. California: Mariposa Co.: MVZ 23097, 23101, 23104, 23109. California: Mono Co.: MVZ 23110, 23112, 23114, 216409 (JN593155). California: Tulare Co.: MVZ 109054. California: Tuolumne Co.: MVZ 22326–22330, 22332–22333, 23108, 23116, 201915 (JN593152), 201916 (JQ241192), 201918. Nevada: Lander Co.: MVZ 45796, 45799–45800, 223394 (JN593165), 223395 (JN593166). Nevada: White Pine Co.: MVZ 41983, 41987–41991, 41993–42003, 42005–42008, 42010–42011, 42013, 223397 (JN593167), 223398 (JN593168), 223396 (JQ241195), 223399 (JQ241196), 223400 (JQ241197). Utah: Beaver Co.: MVZ 41401–41402; UMNH 17080–17081, 17085. Utah: Davis Co.: UMNH 24283, 2962. Utah: Morgan Co.: UMNH 24281. Utah: Salt Lake Co.: UMNH 1128, 1275, 16677–16678, 2299–2300, 2322, 2403, 2405, 5852, 5949. Utah: Sevier Co.: UMNH 17078, 17082–17084. Utah: Utah Co.: BYU 17790 (DQ179859), 18998 (JN593130), 19001. Utah: Wasatch Co.: BYU 13888 (JN593125).

*Neotoma cinerea alticola* ( $n = 83$ )

USA: California: Lassen Co.: MVZ 197087–197089, 215473 (JN593154). California: Nevada Co.: MVZ 118889, 118986, 126809, 126810–126811, 128766, 128769–128776, 134170–134176, 134634, 138894–138897, MVZ 140101, MVZ 149746, MVZ 165897. California: Sierra Co.: MVZ 128777. Idaho: Bannock Co.: MVZ 46510–46511, 46513–46517, 46583–46585, 47060–47061, 47063, 5194–51946. Idaho: Owyhee Co.: MSB 108430, 108432, 108435–108437. Idaho: Power Co.: MVZ 223401 (JN593169). Nevada: Elko Co.: MVZ 197092 (JN593150). Nevada: Humboldt Co.: MVZ 68516, 68518, 223402 (JQ241198), 223403 (JN593170), 223404 (JN593171). Oregon: Deschutes Co.: BYU 18997 (JN593129). Oregon: Umatilla Co.: UWBM 12789–12790, 61438, 61612, 61615–61616, 61619, 61623–61625, 61628. Oregon: Union Co.: UWBM 72106 (JQ241239), UWBM 72108 (JQ241240), UWBM 72137 (JQ241241), UWBM 76697 (JN593228). Oregon: Wheeler Co.: UWBM 78001 (JN593232).

*Neotoma cinerea cinerea* ( $n = 19$ )

CANADA: Alberta: RAM 01.8.3 (JQ241227), 04.12.1 (JQ241228), 95.30.34.

USA: Idaho: Fremont Co.: MVZ 223405 (JN593172), 223406 (JN593173). Montana: Flathead Co.: MVZ 223407 (JN593174), 223408 (JQ241199), 223409 (JQ241200), 223410 (JQ241201). Montana: Golden Valley Co.: UMMZ 87618, 87619, 87620. Montana: Judith Basin Co.: MVZ 223411 (JQ241202), MVZ 223412 (JQ241203), MVZ 223413 (JN593175). Montana: Ravalli Co.: MVZ 78197–78198, 223414 (JN593176), 223416 (JN593177).

*Neotoma cinerea drummondii* (n = 5)

CANADA: British Columbia: MVZ 40241–40242, 41084, 42612, 72094.

*Neotoma cinerea fusca* (n = 9)

USA: Oregon: Lincoln Co.: PSM 13513, 13805, 13903–13908; UWBM 79495 (JN593236).

*Neotoma cinerea lucida* (n = 2)

USA: Nevada: Clark Co.: MVZ 93085, 223434 (JN593186).

*Neotoma cinerea occidentalis* (n = 48)

CANADA: British Columbia: RBCM 2178–2185, 2487–2488.

USA: Oregon: Linn Co.: PSM 5751, 8646–8647. Washington: Clallam Co.: FMNH 6294–6298, 6303–6304; PSM 5765; UWBM 78604 (JQ241243), 78606 (JN593234), 78852 (JN593235). Washington: Kittitas Co.: UAM 24566, 35061 (JN593211), 35063 (JN593212), 35116 (JN593213), 35117 (JQ241231), 35118 (JQ241232), 49980 (JN593215); UMMZ 99815; UWBM 73810 (JN593226). Washington: Okanogan Co.: UWBM 49073. Washington: Pend Oreille Co.: UWBM 78139 (JN593233). Washington: Yakima Co.: UWBM 51172, 52120, 61469–61476, 61480, 61638, 73257.

*Neotoma cinerea pulla* (n = 14)

USA: California: Siskiyou Co.: MVZ 13363–13368. California: Trinity Co.: MVZ 13370–13372, 13374, 13376–13377. Oregon: Klamath Co.: MVZ 134177, 134180.

*Neotoma cinerea saxamans* (n = 18)

CANADA: British Columbia: FMNH 20120; MVZ 30706, 30708–30711, 30713, 30715–30716; PSM 3039, 3697–3698, 4611; ROM 21361, 30229, 30231; UAM 35134 (JN593214). Yukon: UAM 71646 (JN593217).