Supporting information Appendix S1

Final matrix used in the parsimony analyses. Polymorphic character state coded as: {01}=A, {12}=B, {23}=C . Information about *Holochilus sciureus* (UNB 0061, 0062), *Holochilus primigenus* (=*Reigomys* gen. nov.), *Noronhomys vespuccii* and *Carletonomys cailoi* were added in comparisons to Weksler (2006) and Perceqillo *et al*. (2011): For descriptions and details of character states see Percequillo *et al*. (2011).

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Taxon | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |  | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| *Drymoreomys albimaculatus* | ? | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 |  | 0 | 3 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 |
| *Noronhomys vespuccii* | ? | ? | ? | ? | ? | ? | ? | ? | ? |  | ? | ? | ? | ? | ? | ? | ? | ? | ? | 0 | 1 |  | ? | 1 | 1 | ? | 1 | 1 | 0 | 1 | 1 | 2 |
| *Holochilus.primigenus*\* | ? | ? | ? | ? | ? | ? | ? | ? | ? |  | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? |  | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? |
| *Carletonomys cailoi* | ? | ? | ? | ? | ? | ? | ? | ? | ? |  | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? |  | ? | ? | ? | ? | ? | ? | ? | ? | 1 | ? |
| *Holochilus sciureus* | ? | 0 | 1 | 1 | 2 | 1 | 3 | 1 | 2 |  | 1 | B | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |  | 1 | 4 | 1 | 1 | 1 | 1 | 0 | 2 | 0 | 1 |
| *Holochilus chacarius* | ? | 0 | 1 | 1 | 2 | 1 | 3 | 1 | 2 |  | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |  | 1 | 2 | 1 | 1 | 1 | 1 | 0 | 2 | 0 | 1 |
| *Holochilus brasiliensis* | 2 | 0 | 1 | 1 | 2 | 1 | 3 | 1 | 2 |  | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |  | 1 | 2 | 1 | 1 | 1 | 1 | 0 | 2 | 0 | 1 |
| *Pseudoryzomys simplex* | 2 | 0 | 0 | 1 | 2 | 1 | 2 | 0 | 1 |  | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |  | 1 | 3 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 1 |
| *Amphinectomys savamis* | ? | ? | ? | ? | ? | ? | ? | 1 | 2 |  | 1 | ? | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |  | 1 | 4 | ? | 0 | 0 | 2 | 0 | 1 | 1 | 0 |
| *Cerradomys subflavus* | 2 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |  | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |  | 0 | 4 | 0 | 0 | 1 | B | 0 | 1 | 0 | B |
| *Eremoryzomys polius* | 2 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |  | 0 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |  | 0 | 4 | 0 | 0 | 1 | 2 | 0 | 1 | 1 | 0 |
| *Hylaeamys megacephalus* | 2 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |  | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |  | 1 | 3 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 |
| *Lundomys molitor* | 2 | 1 | 1 | 1 | 2 | 1 | 3 | 1 | 2 |  | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 |  | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 2 | 1 | 1 |
| *Melanomys caliginosus* | 2 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 |  | 2 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | B |  | 1 | 4 | 0 | 1 | 1 | 2 | 0 | 1 | 1 | 1 |
| *Neacomys spinosus* | 2 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |  | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 2 |  | 0 | 4 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 |
| *Nectomys squamipes* | 2 | 0 | 0 | 1 | 2 | 1 | 2 | 1 | 2 |  | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 2 |  | 1 | 4 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 |
| *Nesoryzomys narboroughi* | ? | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |  | 0 | 2 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |  | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 |
| *Nesoryzomys swarthi* | ? | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |  | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 |
| *Oecomys catherinae* | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |  | 0 | 4 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 |
| *Oligoryzomys flavescens* | 2 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |  | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 |  | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 |
| *Oligoryzomys nigripes* | 2 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |  | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | A | 1 |  | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 |
| *Oryzomys couesi* | 2 | 0 | 0 | 1 | 2 | 1 | 2 | 0 | 0 |  | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |  | 1 | 4 | 0 | 0 | 1 | 2 | 0 | 1 | 0 | 1 |
| *Oryzomys palustris* | 2 | 0 | 1 | 1 | 2 | 1 | 2 | 0 | 1 |  | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |  | 1 | 4 | 0 | 0 | 1 | 2 | 0 | 1 | 0 | 1 |
| *Sigmodontomys alfari* | 2 | 0 | 0 | 1 | 2 | 1 | 2 | 0 | 1 |  | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | A | B |  | 1 | 4 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | B |
| *Tanyuromys aphrastus* | 2 | 0 | 0 | 1 | 2 | 1 | 3 | 0 | 0 |  | B | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 1 | 1 | 2 |  | 1 | 4 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| *Sooretamys angouya* | 2 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | A | 1 |  | A | 1 | 0 | 0 | 1 | B | 0 | 1 | 1 | 1 |
| *Aegialomys xanthaeolus* | 2 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |  | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | A | B |  | 1 | 4 | 0 | 0 | 1 | B | 0 | 1 | A | 1 |

\* = *Reigomys* gen. nov.

Data matrix - continued

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Taxon | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |  | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |  | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| *Drymoreomys albimaculatus* | A | A | 0 | 2 | 1 | B | 2 | 0 | 0 | 0 |  | 1 | 1 | 1 | 0 | A | 0 | 1 | 1 | 0 | ? |  | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 |
| *Noronhomys vespuccii* | 1 | 1 | 1 | 2 | ? | ? | 2 | 0 | ? | 0 |  | 1 | 1 | ? | ? | 1 | 0 | ? | 1 | 2 | ? |  | 0 | 1 | 1 | 1 | ? | 2 | 2 | 3 | 0 | 0 |
| *Holochilus.primigenus*\* | 1 | 1 | ? | ? | ? | ? | ? | ? | ? | ? |  | ? | ? | ? | 2 | 1 | 1 | ? | 1 | 2 | ? |  | ? | ? | 0 | 1 | ? | 1 | 0 | 3 | 0 | 0 |
| *Carletonomys cailoi* | 1 | ? | ? | ? | ? | ? | ? | ? | ? | ? |  | ? | ? | ? | ? | ? | ? | ? | 1 | ? | ? |  | ? | ? | 1 | 1 | ? | 2 | 0 | 3 | 0 | 0 |
| *Holochilus sciureus* | 1 | 1 | 1 | 2 | 2 | 0 | 2 | 0 | 0 | 0 |  | 2 | 1 | 1 | 1 | 0 | 1 | ? | 1 | 2 | 1 |  | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 0 | 0 |
| *Holochilus chacarius* | 1 | 2 | 1 | 2 | 2 | 0 | 2 | 0 | 0 | 0 |  | 2 | 1 | 0 | 2 | 1 | 1 | ? | 1 | 2 | 1 |  | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 0 | 0 |
| *Holochilus brasiliensis* | 1 | 1 | 1 | C | 2 | 0 | 2 | 0 | 0 | 0 |  | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 |  | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 0 | 0 |
| *Pseudoryzomys simplex* | 0 | 2 | 0 | 2 | 1 | 0 | 2 | A | 0 | 0 |  | 1 | 1 | 1 | 2 | 0 | 0 | 1 | 1 | 2 | 1 |  | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 1 |
| *Amphinectomys savamis* | 1 | 2 | 0 | 3 | ? | 1 | ? | ? | ? | 1 |  | ? | ? | ? | 1 | ? | 0 | ? | ? | ? | ? |  | 1 | ? | 0 | ? | ? | ? | ? | 3 | ? | ? |
| *Cerradomys subflavus* | 0 | 1 | 0 | 3 | 1 | 0 | 2 | 1 | 0 | 1 |  | 1 | 1 | A | 2 | 0 | 0 | 1 | 1 | 2 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | A |
| *Eremoryzomys polius* | 0 | 1 | 0 | 3 | 1 | 0 | 2 | 0 | 0 | 0 |  | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | ? |  | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| *Hylaeamys megacephalus* | 1 | 2 | 0 | C | 1 | B | 1 | 1 | 0 | 0 |  | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| *Lundomys molitor* | 0 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 0 | 0 |  | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 2 | A |  | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 |
| *Melanomys caliginosus* | 1 | 1 | 0 | 2 | 1 | 2 | 2 | 1 | 0 | 1 |  | 1 | 1 | 0 | 1 | 1 | 0 | ? | 1 | 2 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 1 |
| *Neacomys spinosus* | 1 | 2 | 0 | 2 | 1 | 1 | 0 | 1 | 0 | 0 |  | 0 | 1 | A | 2 | 0 | 0 | ? | 1 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 |
| *Nectomys squamipes* | 1 | 1 | 0 | 3 | 1 | B | 2 | 1 | 0 | 1 |  | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 2 | 0 |  | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 0 | 0 |
| *Nesoryzomys narboroughi* | 0 | 2 | 0 | 3 | 1 | 0 | 2 | 1 | 0 | 1 |  | 2 | 1 | 0 | 2 | 1 | 1 | 1 | 1 | 2 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| *Nesoryzomys swarthi* | 0 | 1 | 0 | 3 | 1 | 0 | 2 | 1 | 0 | 0 |  | 2 | 1 | 0 | 2 | 1 | 1 | 1 | 1 | 2 | ? |  | 0 | 0 | 0 | 0 | 0 | 0 | ? | ? | ? | ? |
| *Oecomys catherinae* | 1 | 2 | 0 | 2 | 1 | 2 | 0 | 1 | 0 | 0 |  | 1 | 1 | 0 | 1 | 0 | 0 | ? | 1 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 |
| *Oligoryzomys flavescens* | 1 | 2 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 0 |  | 0 | 1 | 1 | 2 | 0 | 1 | ? | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| *Oligoryzomys nigripes* | 1 | 2 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 0 |  | 0 | 1 | 1 | 2 | 0 | 1 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| *Oryzomys couesi* | 0 | 2 | 0 | 3 | 1 | 2 | 2 | 1 | 0 | 0 |  | 1 | 1 | 1 | 2 | 0 | 0 | ? | 1 | 2 | ? |  | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 |
| *Oryzomys palustris* | 0 | 2 | 0 | 3 | 1 | 0 | 2 | 1 | 0 | 0 |  | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | B | A |  | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| *Sigmodontomys alfari* | 1 | 1 | 0 | 2 | 1 | 1 | 2 | 1 | 0 | 1 |  | 1 | 1 | 0 | 2 | A | 0 | 1 | 1 | 2 | 1 |  | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 0 | 0 |
| *Tanyuromys aphrastus* | 1 | 1 | 0 | B | 1 | 1 | 2 | 1 | 0 | 1 |  | 1 | 1 | 0 | A | 0 | 0 | ? | 1 | 2 | ? |  | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 0 | 0 |
| *Sooretamys angouya* | 0 | 1 | 0 | 3 | 1 | 0 | 2 | 1 | 0 | 0 |  | 1 | 1 | 1 | 2 | 0 | 0 | ? | 0 | 1 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 1 |
| *Aegialomys xanthaeolus* | 0 | 2 | 0 | 3 | 1 | 0 | 2 | 1 | 0 | 1 |  | 1 | 1 | A | 1 | 1 | 0 | 1 | 1 | 2 | 1 |  | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 |

\* = *Reigomys* gen. nov.

Data matrix - continued

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Taxon | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 |  | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |  | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |
| *Drymoreomys albimaculatus* | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 1 |  | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 2 |  | 1 | 1 | 1 | 0 | 1 | 1 | 2 | 0 | 1 | 1 |
| *Noronhomys vespuccii* | 1 | 1 | 1 | 0 | - | 0 | 0 | 0 | 1 | 1 |  | 0 | 2 | 0 | 0 | 1 | 2 | ? | ? | ? | ? |  | 1 | ? | ? | ? | ? | ? | ? | ? | ? | ? |
| *Holochilus.primigenus*\* | 1 | 0 | 0 | 0 | - | 1 | 0 | 0 | 1 | 1 |  | 0 | 1 | 0 | 0 | 0 | 2 | ? | ? | ? | ? |  | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? |
| *Carletonomys cailoi* | 1 | 1 | ? | ? | - | ? | ? | ? | ? | ? |  | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? |  | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? |
| *Holochilus sciureus* | 2 | 1 | 1 | 0 | - | 1 | 1 | 0 | 1 | 1 |  | 0 | 2 | 0 | 0 | 0 | 2 | ? | 1 | ? | ? |  | 1 | 1 | 1 | ? | ? | ? | ? | ? | ? | ? |
| *Holochilus chacarius* | 2 | 1 | 1 | 0 | - | 0 | 0 | 0 | 1 | 1 |  | 0 | 2 | 0 | 0 | 0 | 2 | 1 | ? | ? | ? |  | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? |
| *Holochilus brasiliensis* | 1 | 1 | 1 | 0 | - | 0 | 0 | 0 | 1 | 1 |  | 0 | 2 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 2 |  | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 0 |
| *Pseudoryzomys simplex* | 1 | 0 | 0 | 0 | ? | 1 | 0 | 0 | 1 | 0 |  | 0 | 2 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 2 |  | 1 | 1 | 1 | 1 | 1 | ? | 0 | 0 | 1 | ? |
| *Amphinectomys savamis* | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? |  | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? |  | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? |
| *Cerradomys subflavus* | 0 | 0 | 0 | 0 | 1 | 0 | 0 | A | 1 | 1 |  | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 |  | 1 | 1 | 1 | 1 | 2 | 0 | 0 | 0 | ? | ? |
| *Eremoryzomys polius* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |  | 0 | 0 | 0 | 1 | 0 | 0 | 1 | ? | ? | ? |  | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? |
| *Hylaeamys megacephalus* | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |  | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |  | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 |
| *Lundomys molitor* | 1 | 0 | 0 | 0 | ? | 1 | 0 | 0 | 1 | 1 |  | 0 | 1 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 2 |  | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | ? | ? |
| *Melanomys caliginosus* | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |  | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 |  | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| *Neacomys spinosus* | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |  | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |  | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| *Nectomys squamipes* | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |  | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | ? | 2 |  | 1 | ? | 1 | 1 | 0 | ? | ? | ? | 1 | 0 |
| *Nesoryzomys narboroughi* | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |  | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |  | 1 | 1 | 1 | 1 | 1 | ? | ? | 0 | 1 | 1 |
| *Nesoryzomys swarthi* | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? |  | ? | ? | ? | ? | ? | ? | 1 | 1 | 0 | 2 |  | 1 | 1 | 1 | ? | ? | ? | ? | ? | ? | ? |
| *Oecomys catherinae* | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 |  | 1 | 0 | 0 | 0 | 0 | 0 | ? | ? | ? | ? |  | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? |
| *Oligoryzomys flavescens* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |  | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | ? |  | 1 | 1 | ? | 1 | 0 | 0 | 1 | 0 | 1 | ? |
| *Oligoryzomys nigripes* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |  | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 |  | 1 | 1 | ? | 1 | 0 | 0 | 1 | 0 | 2 | ? |
| *Oryzomys couesi* | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 |  | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 2 |  | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | ? | ? |
| *Oryzomys palustris* | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 |  | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 2 |  | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 |
| *Sigmodontomys alfari* | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |  | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 2 |  | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 0 | 1 | 0 |
| *Tanyuromys aphrastus* | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |  | 0 | 0 | 0 | 1 | 1 | 0 | ? | ? | ? | ? |  | ? | ? | ? | 1 | 1 | 1 | 0 | 0 | ? | ? |
| *Sooretamys angouya* | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 |  | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 |  | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 |
| *Aegialomys xanthaeolus* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |  | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 |  | 1 | 1 | ? | 1 | 1 | 0 | 0 | 0 | ? | ? |

\* = *Reigomys* gen. nov.

Data matrix - continued

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Taxon | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 |
| *Drymoreomys albimaculatus* | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 |
| *Noronhomys vespuccii* | ? | ? | ? | ? | ? | ? | ? | ? |
| *Holochilus.primigenus*\* | ? | ? | ? | ? | ? | ? | ? | ? |
| *Carletonomys cailoi* | ? | ? | ? | ? | ? | ? | ? | ? |
| *Holochilus sciureus* | ? | ? | ? | ? | ? | ? | ? | ? |
| *Holochilus chacarius* | ? | ? | ? | ? | ? | ? | 1 | 1 |
| *Holochilus brasiliensis* | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |
| *Pseudoryzomys simplex* | ? | ? | ? | ? | ? | ? | 1 | 1 |
| *Amphinectomys savamis* | ? | ? | ? | ? | ? | ? | ? | ? |
| *Cerradomys subflavus* | ? | ? | ? | ? | ? | ? | 1 | 0 |
| *Eremoryzomys polius* | ? | ? | ? | ? | ? | ? | ? | ? |
| *Hylaeamys megacephalus* | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 |
| *Lundomys molitor* | ? | ? | ? | ? | ? | ? | 1 | 0 |
| *Melanomys caliginosus* | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 |
| *Neacomys spinosus* | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 |
| *Nectomys squamipes* | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |
| *Nesoryzomys narboroughi* | 1 | 1 | ? | 1 | 1 | ? | 1 | 0 |
| *Nesoryzomys swarthi* | ? | ? | ? | ? | ? | ? | ? | ? |
| *Oecomys catherinae* | ? | ? | ? | ? | ? | ? | ? | ? |
| *Oligoryzomys flavescens* | ? | ? | ? | ? | ? | ? | 1 | ? |
| *Oligoryzomys nigripes* | ? | ? | ? | ? | ? | ? | 1 | 0 |
| *Oryzomys couesi* | ? | ? | ? | ? | ? | ? | 1 | 0 |
| *Oryzomys palustris* | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 |
| *Sigmodontomys alfari* | 0 | 0 | ? | 2 | 1 | 0 | 1 | ? |
| *Tanyuromys aphrastus* | ? | ? | ? | ? | ? | ? | 1 | 1 |
| *Sooretamys angouya* | 0 | 0 | 0 | 1 | 1 | 0 | 1 | ? |
| *Aegialomys xanthaeolus* | ? | ? | ? | ? | ? | ? | 1 | 0 |

\* = *Reigomys* gen. nov.

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