

**Table 1.** Cross calibrations and reciprocal compatibility between seven paleontological references, as inferred by local molecular clock datings based on first and second codon positions of the three concatenated exons of ADRA2B + IRBP + vWF<sup>a</sup>

	Divergence estimated for Calibration point						
	Caviomorpha [31 Myr]	<i>Mus</i> vs. <i>Rattus</i> [14 Myr]	Gliridae [28.5 Myr]	Sciuroidea [37 Myr]	Lagomorpha [37 Myr]	Cetartiodactyla [63 Myr]	Paenungulata [60 Myr]
Caviomorpha	—	24.0 (1.6)	21.9 (1.5)	27.9 (1.9) <sup>b</sup>	32.7 (2.2) <sup>b</sup>	38.3 (2.6)	56.6 (3.9)
Murinae	18.1 (1.9)	—	12.8 (1.3) <sup>b</sup>	16.3 (1.7) <sup>b</sup>	19.1 (2.0)	22.3 (2.3)	33.0 (3.4)
Gliridae	40.4 (3.2)	31.3 (2.4) <sup>b</sup>	—	36.3 (2.8)	42.6 (3.3)	49.9 (3.9)	74.7 (5.8)
Sciuroidea	41.1 (3.5) <sup>b</sup>	31.8 (2.7) <sup>b</sup>	29.0 (2.4)	—	43.4 (3.6) <sup>b</sup>	50.8 (4.3)	75.1 (6.3)
Lagomorpha	35.1 (3.0) <sup>b</sup>	27.1 (2.3)	24.7 (2.1)	31.5 (2.7)	—	43.3 (3.7) <sup>b</sup>	64.0 (5.4)
Cetartiodactyla	51.0 (2.9)	39.5 (2.3)	36.0 (2.1)	45.8 (2.6)	53.8 (3.1)	—	93.0 (5.3)
Paenungulata	32.9 (2.9)	25.5 (2.2)	23.2 (2.0)	29.6 (2.6)	34.7 (3.0)	40.6 (3.6)	—

<sup>a</sup>Divergence dates (as Myr) are presented, with their standard errors in parentheses. Fossil calibration ages are given in brackets. From top to bottom, divergences correspond, respectively, to *Echimys* vs. *Cavia*, *Mus* vs. *Rattus*, *Dryomys* vs. *Glis*, *Marmota* vs. *Aplodontia*, *Ochotona* vs. *Lepus*, *Lama* vs. *Physeter*, and *Dugong* vs. *Procavia*.

<sup>b</sup>Divergence dates which are accurately estimated by a given calibration point. For example, the 95% confidence interval (age  $\pm$  1.96 [SE]) for the divergence time between the two sciuroids, *Marmota* and *Aplodontia* (41.1  $\pm$  3.5 Myr), is 34.1 to 48.1 Myr as estimated under the Caviomorpha calibration at 31 Myr. This 34.1- to 48.1-Myr interval contains the fossil estimate for sciuroids (37 Myr).