**Table S1.** Character matrix employed in the phylogenetic analysis. See character definition in Vélez-Juarbe and Domning (2014: Supplemental Data S1); character numbers are those employed by the latter authors. Taxa newly coded in this analysis are indicated by an asterisk. Missing data are indicated by a question mark. Parsimony-informative characters for this matrix are denoted in bold type.

**Tableau S1.** Matrice de caractères utilisée dans l’analyse filogénétique. Voir la définition des caractères à Vélez-Juarbe et Domning (2014: données supplémentaires S1); les nombres des caractères sont les mêmes que dans cette publication. Les taxons codée pour la première fois dans cette analyse sont indiqués par un astérisque. Les données manquantes sont signalées par un point d’interrogation. Les caractères informatives pour la parcimonie dans cette matrice sont indiqués en caràctères gras.

 **0**00**0000000**0000**0000**00**00000**0**0**0**00**0**0**0**000**0**0000**0**11111111111111111**1**111**1111**11**

 **0**00**0011111**2222**3334**44**56667**7**7**7**77**8**8**8**888**8**9999**9**00001122222223344**4**444**4455**55**

Taxon/Characters **3**67**8901346**0123**1672**45**14670**2**3**4**67**1**2**4**578**9**0137**9**12355823567897901**2**345**6701**57**

-------------------------------------------------------------------------------------------------------

*Phosphatherium escuiliei* 00000010?00???0000000?0000??00?0?00000?0000000000000?0000000000100000

*Cornwallius sookensis* 00000000000?0000000000100?10000?0000101000?0000000?0000?000?011100000

*Prorastomus sirenoides* 100111100?01000000000000001100000000?000000100010000000?000?000000010

*Ashokia antiqua* ?0011?1?00010000000010020011000200000011??000111??????????????0??001?

*Eotheroides aegyptiacum* ?001110?0001?00000001001000111000?0???000?111?111111100?????010100011

*Eotheroides lambondrano*\*100110?10???000000001????????1???0?0??1??0?1????????????0???010100011

*Prototherium veronense*\*1001111?00???000000010000??11101000000?01?1?11??201000000010010100011

***Prototherium*? *ausetanum* sp. nov.\*** 1001110??0??00?0?00011010?0?110?00?0000?001111???????????????10100011

*Prototherium*? *intermedium* s.l.\* 2001110?00???000000010010???110?000000???011????1021100001??010100011

*Eosiren libyca*\* 20011?0?00???000000010020??111?10000001??01?1?1?1011100000??010100011

*Eosiren imenti*\* 200110110?0?0010200010?????1110?010000??10??1?1?????????00??110100011

*Miosiren kocki*  100111010101000100001102002110020200002000111111???????10200121120011

*Halitherium taulannense*  200111?10001000000001002000111010000000110111111102110000100010100011

*Halitherium schinzii*  2001110100010000000010020001110101?000?110111111102110100100121100011

*Halitherium christolii*  ???1??0??0?1???000001?0???0111010?????????1111?13121111?????12110001?

*Caribosiren turneri*  200111010001001000001?????0111010?000?1110111111????????10??122100012

*Metaxytherium medium*  200111110001001100001112000111010200001110111111312111100000122100012

*Metaxytherium floridanum*  200111110001001100001112000111010200001110111111312111100000122100012

*Metaxytherium albifontanum*  200111?100010011000011120001110101000011101111113?2111100000122100012

*Dusisiren jordani* 2001111100011011000011131001120102100020101111112121101?10??122100012

*Hydrodamalis cuestae* 2001111210012111000011131002120102100021101111112121201?10??1221?0112

*Crenatosiren olseni* 2001110100010011100010020001110101000111?0111111312111100100122100012

*Domningia sodhae* 2201110100010013120010020?01111102010111201211?13121?11?021?122100012

*Dugong dugon* 200111021101001122111112000113010211011210111111312111110201122100012