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SUPPLEMENTARY ONLINE MATERIAL FOR

**The anatomy of the Late Miocene baleen whale *Cetotherium riabinini* from Ukraine**

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Character scores for *Cetotherium riabinini*, *Cetotherium rathkii* and *Joumocetus shimizui* in the phylogenetic analysis. Scores for all other taxa are adopted from Marx (2011) without changes.

*Joumocetus shimizui*

2010121000110201?11100101?010010010010100000011110001110012000110?10200?1000  
00??1110100???111111111111?1110??101?0?????10????????????????????????????????

*Cetotherium riabinini*

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201010100011020111?11010110100100100101000001111100011100120000100102001100  
00113111010????121121111111?111012101101220010??0110020????????????????????

*Cetotherium rathkii*

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?01??0??0011020111?1001?1?0100100102?0100000?11110001110012000010?10200010?0  
11131110100???121121111111?111??2?0?????????1????????????????????????????????