

# 3D models related to the publication: New data on Aymynodontidae (Mammalia, Perissodactyla) from Eastern Europe: phylogenetic and palaeobiogeographic implications around the Eocene-Oligocene transition

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## Abstract

This contribution contains the 3D model(s) described and figured in the following publication: Tissier et al. 2018, Plos One, <https://doi.org/10.1371/journal.pone.0193774>.

**Keywords:** Aymynodontidae, late Eocene, Oligocene, Rhinocerotidae, Romania

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## INTRODUCTION

3D models presented here have been described by Tissier et al., 2018. They are all deposited in the Paleontology-Stratigraphy Museum collections of the Universitatea Babe -Bolyai (Cluj-Napoca, Romania). UBB MPS 15795 (skull and associated mandible; figure 1) is the holotype of the newly described taxon *Sellamynodon zimborensis*, from the Late Eocene/Early Oligocene of Dob rca, Romania. The maxillary (UBB MPS V545) and lower molar (UBB MPS V546) have been attributed to *Aymynodontopsis* aff. *bodei*, from the latest Eocene of Morlaca, Romania. These discoveries are particularly interesting regarding the Grande Coupure event, as they attest to the presence of Aymynodontidae in Europe prior to the Oligocene. Except a few isolated teeth (Kretzoi, 1940; Nikolov & Heissig, 1985), they also document the only aymynodontid taxa differing from *Cadurcotherium* in Europe.

## METHODS

The specimens have been surface-scanned with a structured-light scanner (Artec Space Spider) and reconstructed with Artec Studio 10 Professional. The 3D surface models are provided in .ply format along with their texture in .png format, and can be opened with a wide range of freeware, such as MeshLab. They can be visualized either with or without texture.



**Figure 1.** Skull and mandible (UBB MPS 15795) in lateral view; holotype of *Sellamynodon zimborensis* (Aymynodontidae), Late Eocene-Early Oligocene, Dob rca (Romania). Scale bar = 5 cm.

## ACKNOWLEDGEMENTS

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## BIBLIOGRAPHY

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Model IDs	Taxon	Description
UBBMPS15795	<i>Sellamynodon zimborensis</i>	Fragmentary skull with left M3.
UBBMPS15795	<i>Sellamynodon zimborensis</i>	Mandible with complete molar and premolar rows, lacking symphysis.
UBBMPSV545	<i>Aynodontopsis</i> aff. <i>bodei</i>	Maxillary fragment with M1-3.
UBBMPSV546	<i>Aynodontopsis</i> aff. <i>bodei</i>	Unworn m1/2 on mandible fragment.

**Table 1.** List of models. All specimens come from the Paleontology-Stratigraphy Museum collections of the Universitatea Babeş-Bolyai (Cluj-Napoca, Romania) .

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Tissier et al., 2018. New data on Aynodontidae (Mammalia, Perissodactyla) from Eastern Europe: phylogenetic and palaeobiogeographic implications around the Eocene-Oligocene transition. Plos One. <https://doi.org/10.1371/journal.pone.0193774>