

Supplementary Data 1. Raw fossil sites information in this study

The dataset includes site name, coordinates (longitude and latitude), continent, country, maximum age, minimum age and faunal composition in Eurasia and Africa within 10Ma.

Supplementary Data 2. Raw trait data in this study

The dataset includes the trait data (body mass, diet and locomotion) type and the sources for both fossil and extant genera in this study.

Supplementary Data 3. Synonyms in this study

The dataset includes synonyms used in this study.