Appendix A.1

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| Number of character | Character definition | States of character |
| 2 (modified) | Hypoflexus/id isolated from parafossette/metafossettid in adult stages (no senil). | 1. Present 2. Absent |
| 21 (modified) | Relative position of the dorsal root of the zygoma anterior to the limit between M1-M2 (ordered). | 1. At the same level of M1-M2 2. Posterior to the limit between M1-M2 |
| 42 (modified) | Location of the mandibular foramen. | 1. High in the mandibular ramus opening dorso-medially 2. Posterior to the retromolar fossa opening dorsally 3. On the labial portion of the retromolar fossa opening dorsally 4. Ventral to the retromolar fossa opening posterolaterally |
| 43 (modified) | Distribution of enamel in the lower teeth. | 1. Around of the entire crown. 2. Interrupted on the anterior wall of the tooth and the anterior wall of the hypoflexid. 3. Interrupted on the anterior and lingual walls of the tooth. 4. Interrupted on the antero labial wall of the tooth and posterior wall of the hypoflexid. |
| 46 (new). Taken from Arnal and Vucetich (2015). | Position of anterior border of the notch for the insertion of muscle *mmpi*. | 1. Below m1. 2. Anterior to m1. |
| 47 (new). Taken from Arnal and Vucetich (2015). | Position of notch for the insertion of muscle *mmpi* with respect to the height of mandible. | 1. Above of dorsoventral midpoint of mandible. 2. At the midpoint of the mandible. 3. Below of dorsoventral midpoint of mandible. |
| 48 (new). Taken from Arnal and Vucetich (2015). | Anteroloph in M1-M3 | 1. Short, does nto reach the paracone. 2. Reach the paracone. 3. Long without contact the paracone. |
| 49 (new). Taken from Arnal and Vucetich (2015). | Conection posterolophid-entoconid | 1. Absent 2. Present |
| 50 (new). Taken from Arnal and Vucetich (2015). | Posterior arm of metaconid in m1-m2 | 1. Present 2. Absent |