

- **1. Lower Incisors, number of longitudinal parallel ridges on the distal side of the rostrally-facing surface of the incisor [ordered]**
 - 0 zero
 - 1 one
 - 2 two
 - 3 three
- **2. Lower Incisors, number of longitudinal parallel ridges in the middle part of the rostrally-facing surface of the incisor**
 - 0 zero
 - 1 one
- **3. Lower Incisors, number of longitudinal parallel ridges on the mesial side of the rostrally-facing surface of the incisor [ordered]**
 - 0 zero
 - 1 one
 - 2 two
- **4. Lower Incisors, presence of faint enamel crenulations on the rostrally-facing surface of the incisor**
 - 0 absent
 - 1 present
- **5. Upper P4 presence**
 - 0 absent
 - 1 present
- **6. Upper Jaw, zygomatic plate orientation (zygoma)**
 - 0 not inclined (hystricomorph)
 - 1 inclined (myomorph and sciurumorph)
- **7. Upper Jaw, zygomatic plate size (Zygomatic plate measuring follows the definition in Lindsay 1977. Width is mediolateral, and length is rostrocaudal.)**
 - 0 long
 - 1 short
- **8. Upper Jaw, shape of the Infraorbital foramen**
 - 0 round
 - 1 ventrally narrow
 - 2 dorsally narrow
- **9. Upper Jaw, incisive foramen length**
 - 0 short, caudal border does not reach M1
 - 1 long, caudal border reaches M1
- **10. Lower Jaw, diastema shape**
 - 0 shallow and weakly curved
 - 1 deep and strongly curved
- **11. Lower Jaw, Ventral masseter crest rostral extension [ordered]**
 - 0 rostral to m1
 - 1 under m1
 - 2 under m2
- **12. Lower Jaw, orientation of the longitudinal axis of the tooth row relative to the longitudinal axis of the dental bone in occlusal view [ordered]**
 - 0 strongly inclined
 - 1 slightly inclined
 - 2 parallel
- **13. Cheek tooth form**
 - 0 bunodont
 - 1 lophodont
 - 2 selenodont
- **14. Cheek tooth crown height**

- 0 brachydont
- 1 semihypsodont
- 2 hyposodont
- **15. Cheek tooth elongated and prolonged cusps and cuspids combined with long sharp ridges**
 - 0 absent
 - 1 present
- **16. Cheek tooth paired cusps arranged in transverse ridges and standing in high relief**
 - 0 absent
 - 1 present
- **17. Cheek tooth enamel crenulation**
 - 0 absent
 - 1 present
- **18. M1, presence of protostyle**
 - 0 absent
 - 1 present
- **19. M1, presence of anterocone [ordered]**
 - 0 absent
 - 1 simple, undivided
 - 2 divided
- **20. M1, size difference between the lingual and labial parts of the divided anterocone**
 - 0 subequal
 - 1 different
- **21. M1, presence of protocone spur**
 - 0 short and free
 - 1 long and not free
- **22. M1, protocone spur develops into anterolophule**
 - 0 absent
 - 1 present
- **23. M1, presence of mesial protolophule**
 - 0 absent
 - 1 present
- **24. M1, presence of labial anteroloph**
 - 0 always absent
 - 1 variably present
- **25. M1, presence of protoconule**
 - 0 absent
 - 1 present
- **26. M1, presence of distal protolophule**
 - 0 absent
 - 1 present (could be incomplete)
- **27. M1, presence of metacone ridge**
 - 0 absent
 - 1 present
- **28. M1, presence of protocone distal arm**
 - 0 absent
 - 1 present
- **29. M1, presence of entoloph**
 - 0 absent or incomplete
 - 1 complete
- **30. M1, entoloph orientation**
 - 0 connected the mesial protolophule
 - 1 connected the anterior part of the protocone
 - 2 connected the posterior part of the protocone, or the distal protolophule
- **31. M1, root number [ordered]**

- 0 three
- 1 four
- 2 five or more
- **32. M1, presence of mesial lobe**
 - 0 absent or very weak
 - 1 present, strong
- **33. M1 and M2, small cingulum starting from the labial extremity of the mesoloph and forms a loop toward the paracone, delimiting a small pit with the paracone distal spur**
 - 0 absent
 - 1 present
- **34. M1 , deep fossette enclosed between protocone and paracone**
 - 0 absent
 - 1 present
- **35. M2 presence of anterolophule**
 - 0 absent, anteroloph isolated
 - 1 present, connected to the protocone or protolophule
 - 2 both protocone spur and mesial protolophule present and connected to anterolophs
- **36. M2, presence of protocone spur in addition of the anterolophule**
 - 0 absent
 - 1 present
- **37. M2 , deep fossette enclosed between protocone and paracone**
 - 0 absent
 - 1 present
- **38. M2, presence of protocone distal arm**
 - 0 absent
 - 1 present
- **39. M2, presence of entoloph**
 - 0 absent or incomplete
 - 1 complete
- **40. M2, presence of protoconule**
 - 0 absent
 - 1 present
- **41. M2, presence of distal protolophule**
 - 0 absent
 - 1 incomplete
 - 2 complete
- **42. M2, presence of metacone ridge**
 - 0 absent
 - 1 present
- **43. M2, sinus mesiolabial expansion**
 - 0 absent
 - 1 present
- **44. M3, development of metacone**
 - 0 weak
 - 1 prominent
- **45. M3, presence of protocone spur in addition the the anterolophule**
 - 0 absent
 - 1 present
- **46. m1, presence of anteroconide [ordered]**
 - 0 absent or present as a cingulid
 - 1 present, single cusp
 - 2 present, two cusps
- **47. m1, presence of metalophulid**
 - 0 absent

- 1 present (could be incomplete)
- **48. m1, presence of metastylid**
 - 0 absent
 - 1 present
- **49. m1, presence of anterolophulid (connection between the anteroconid or anterolophids, and protoconid)**
 - 0 absent
 - 1 incomplete
 - 2 complete
- **50. m1 protoconid position**
 - 0 mesial or labial to metaconid
 - 1 distal to metaconid
- **51. m1, presence of metaconid ridge**
 - 0 absent
 - 1 present
- **52. m1, presence of additional distal cingulid**
 - 0 absent
 - 1 present
- **53. m1, presence of labial posterolophulid**
 - 0 absent
 - 1 present
- **54. m1, presence of hypoconid hind arm**
 - 0 always absent
 - 1 variably present
- **55. m1, presence of mesoconid [ordered]**
 - 0 absent
 - 1 weak
 - 2 prominent
- **56. m1, development of hypolophulid**
 - 0 absent or incomplete
 - 1 always complete
- **57. m1 hypolophulid orientation [ordered]**
 - 0 connects the mesolophid
 - 1 connects the mesoconid or the base of mesolophid
 - 2 connects the mesial or the middle part of the hypoconid
 - 3 connects the distal area of the hypoconid or the posterolophid
- **58. m1, ectolophid long and extends obliquely**
 - 0 no
 - 1 yes
- **59. m1, development of ectolophid**
 - 0 absent or incomplete
 - 1 complete
- **60. m1, X-shaped intersection between ectolophid, protoconid hind arm and hypolophulid**
 - 0 absent
 - 1 present
- **61. m2, presence of metalophulid**
 - 0 absent or incomplete
 - 1 present
- **62. m2, metalophulid orientation**
 - 0 connects the lingual anterolophid or the anterior tooth border
 - 1 connects the anterolophulid or the protoconid
- **63. m2 presence of hypoconid hind arm**
 - 0 absent
 - 1 present

- **64. m2 hypolophulid orientation [ordered]**
 - 0 connects the mesolophid
 - 1 connects the mesoconid, or the base of the mesolophid
 - 2 connects the mesial or the middle part of the hypoconid
 - 3 connects the distal area of the hypoconid or the posterolophid
- **65. m3 length relative to m1 [ordered]**
 - 0 shorter
 - 1 subequal
 - 2 longer
- **66. m3 distal reduction**
 - 0 un-reduced
 - 1 reduced
- **67. m3, presence of metalophulid**
 - 0 absent or variably present
 - 1 always present