

Appendix 2. List of character and character states used in the cladistic analysis.

Characters marked with an asterisk (\*) are multistate.

- (1) \*Condylonasal length (mm): less than 78 [0]; 78–111 [1]; 111–160 [2]; over 160 [3].
- (2) Relative position of infraorbital foramen versus anterior border of the lacrimal: infraorbital foramen anterior [0]; both at same position or infraorbital foramen posterior [1].
- (3) Dorsal contour of the rostrum in lateral view: nearly straight [0]; sigmoid [1].
- (4) \*Length of upper tooth row (with all molariforms erupted) in relation to the maxillary length at ventral midsagittal line: less than 60% [0]; 60–70% [1]; over 70% [2].
- (5) \*Posterior palatal border: long and narrow [0]; long and broad [1]; short and broad to straight [2].
- (6) Posterior palatal angle (measured between the posterior-most point of the interpalatine suture and the posterior-most medial free border of the palate): less than 80° [0]; over 80° [1].
- (7) Posterolateral border of palate strongly keeled: absent [0]; present [1].
- (8) Condition of palatine: with longitudinal wrinkle and lateral narrowing [0]; completely flat [1].
- (9) \*Length of infraorbital canal in relation to antero-posterior dimension of lacrimal: less than 40% [0]; 40–60% [1]; over 60% [2].
- (10) Width of temporal fossa in relation to cranial width at the level of the frontoparietal suture: less than 9% [0]; 9% and over [1].
- (11) Foramina in principal sulcus of buckler osteoderms: restricted to cranial half [0]; all over the sulcus [1].

- (12) Remarkably large foramina in principal sulcus of at least some buckler osteoderms: absent [0]; present [1].
- (13) Number of foramina in the principal sulcus of buckler osteoderms: never more than 5 [0]; at least some osteoderms with more than 5 [1].
- (14) Foramina in the principal sulcus of buckler osteoderms: never in the intersection with the radial sulcus [0]; at least some osteoderms with one or more foramina in the intersection with the radial sulcus [1].
- (15) Principal sulci in ornamented portion of movable osteoderms: anteriorly free in all osteoderms [0]; anteriorly connected in some osteoderms [1].
- (16) \*Total number of foramina in the principal sulcus/sulci of movable osteoderms: less than 13 [1]; at least some osteoderms with more than 13 [2].
- (17) Number of piliferous foramina in the posterior border of movable osteoderms: never more than 3 [0]; at least some osteoderms with 4 or more [1].
- (18) Longitudinal keel in the main figure of osteoderms: absent [0]; present [1].
- (19) Contour of main figure of buckler osteoderms: approximately lageniform [0]; subcircular [1]
- (20) Outer contour of buckler osteoderms: mostly quadrangular [0]; mostly hexagonal [1]
- (21) Posterior border of buckler osteoderms: straight and/or V-shaped [0]; rounded [1]
- (22) Distribution of peripheral figure(s) in buckler osteoderms: only anterior and lateral [0]; anterior, lateral, and posterior [1].
- (23) Sulci of movable osteoderms: diverging and becoming confluent with the lateral margin [0]; reaching the posterior border of the osteoderm [1].
- (24) Subcircular principal sulcus of buckler osteoderms more external, close to the borders: absent [0]; present [1].
- (25) Radial sulcus in the buckler osteoderms: present [0]; absent [1].