

## Electronic Supplementary Data

### List of character used in this study

\* = *ordered character*

1. Nasal A (*sensu* Joyce 2007)
2. Nasal B (*sensu* Joyce 2007)
3. Nasal C (*sensu* Joyce 2007)
4. Prefrontal A (*sensu* Joyce 2007)
5. Prefrontal B (*sensu* Joyce 2007, as modified by Sterli 2008)
6. Prefrontal C (*sensu* Joyce 2007)
- \*7. Prefrontal D (*sensu* Joyce 2007)
8. Prefrontal E (*sensu* Joyce 2007)
9. Lacrimal A (*sensu* Joyce 2007)
10. Frontal A (*sensu* Joyce 2007)
11. Parietal A (*sensu* Joyce 2007)
12. Parietal B (*sensu* Joyce 2007)
13. Parietal C (*sensu* Joyce 2007)
14. Parietal D (*sensu* Sterli 2008)
15. Jugal A (*sensu* Joyce 2007)
16. Jugal B (*sensu* Joyce 2007)
17. Quadratojugal A (*sensu* Joyce 2007)
18. Quadratojugal B (*sensu* Joyce 2007)
19. Quadratojugal C (*sensu* Sterli 2008)

20. Squamosal A (*sensu* Joyce 2007)
21. Squamosal B (*sensu* Joyce 2007)
22. Postorbital A (*sensu* Joyce 2007)
23. Supratemporal A (*sensu* Joyce 2007)
24. Premaxilla A (*sensu* Joyce 2007, as modified by Sterli 2008)

Note: *Kallokibotion bajazidi*, 1, not 2.

25. Premaxilla B (*sensu* Joyce 2007)
26. Premaxilla C (*sensu* Joyce 2007)
27. Premaxilla D (*sensu* Joyce 2007)
28. Premaxilla E (*sensu* Joyce 2007)
- \*29. Vomer A (*sensu* Joyce 2007)
30. Vomer B (*sensu* Joyce 2007)
31. Vomer C (*sensu* Joyce 2007)
32. Vomer D (*sensu* Sterli 2008)
33. Palatine A (*sensu* Joyce 2007)
34. Quadrate A (*sensu* Joyce 2007, as modified by Sterli 2008)

Note: *Mongolochelys efremovi* 2, not 1.

- \*35. Quadrate B + C (*sensu* Joyce 2007, as modified by Sterli 2008)
36. Quadrate D (*sensu* Joyce 2007)
- \*37. Quadrate E (*sensu* Joyce 2007)
38. Quadrate F (*sensu* Joyce 2007, as modified by Sterli 2008)

Note: Quadrate G of Sterli (2008) removed.

39. Epipterygoid A (*sensu* Joyce 2007, as modified by Sterli 2008)

Note: *Mongolochelys* ?, not 0.

- 40. Pterygoid A (*sensu* Joyce 2007)
- 41. Pterygoid B (*sensu* Joyce 2007, as modified by Sterli 2008)
- 42. Pterygoid C (*sensu* Joyce 2007)
- 43. Pterygoid D (*sensu* Joyce 2007)
- 44. Pterygoid E (*sensu* Joyce 2007)
- 45. Pterygoid F (*sensu* Joyce 2007)
- 46. Pterygoid G (*sensu* Joyce 2007)
- 47. Pterygoid H (*sensu* Joyce 2007)

Note: Pterygoid I of Sterli (2008) removed.

- 48. Supraoccipital A (*sensu* Joyce 2007)
- \*49. Supraoccipital B (*sensu* Joyce 2007)

Note: *Mongolochelys efremovi* 0, not 1.

- 50. Exoccipital A (*sensu* Joyce 2007)
- 51. Basioccipital A (*sensu* Sterli 2008)
- 52. Opisthotic A (*sensu* Joyce 2007)
- 53. Opisthotic B (*sensu* Sterli 2008)
- 54. Opisthotic C (*sensu* Sterli 2008)
- 55. Opisthotic D (*sensu* Sterli 2008)
- 56. Basisphenoid A (*sensu* Joyce 2007)
- 57. Basisphenoid B (*sensu* Joyce 2007)
- 58. Hyomandibular nerve A (*sensu* Joyce 2007)
- 59. Stapedial artery A (*sensu* Joyce 2007)

60. Stapedial artery B (*sensu* Joyce 2007)
61. Jugular foramina A (*sensu* Joyce 2007, as modified by Sterli 2008)
62. Canalis caroticum A (*sensu* Joyce 2007)  
  
Note: Canalis caroticum B of Sterli (2008) removed.
63. Fenestra perilymphatica A (*sensu* Joyce 2007)
64. Dentary A (*sensu* Joyce 2007)
65. Splenial (*sensu* Sterli 2008)
66. Teeth A (*sensu* Sterli 2008)
67. Upper Temporal Fossa (*sensu* Sterli 2008)
- \*68. Carapace A (*sensu* Joyce 2007)
- \*69. Carapace B (*sensu* Joyce 2007)
70. Carapace C (*sensu* Sterli 2008)
71. Nuchal A (*sensu* Joyce 2007)
72. Nuchal B (*sensu* Joyce 2007)
73. Neural A (*sensu* Joyce 2007)
- \*74. Peripheral A (*sensu* Joyce 2007)
- \*75. Peripheral B (*sensu* Joyce 2007)
76. Costal A (*sensu* Joyce 2007)
- \*77. Costal B (*sensu* Joyce 2007)
78. Costal C (*sensu* Joyce 2007)
79. Cervical A (*sensu* Joyce 2007)
- \*80. Supramarginal A (*sensu* Joyce 2007)
81. Vertebral A (*sensu* Joyce 2007)

82. Vertebral B (*sensu* Joyce 2007)
83. Vertebral C (*sensu* Joyce 2007)
84. Plastron A (*sensu* Joyce 2007)
85. Plastron B (*sensu* Joyce 2007)
86. Plastron C (*sensu* Joyce 2007)
87. Entoplastron A (*sensu* Joyce 2007)
88. Entoplastron B (*sensu* Joyce 2007)
89. Entoplastron C (*sensu* Joyce 2007)
90. Entoplastron D (*sensu* Joyce 2007)
91. Entoplastron E (*sensu* Joyce 2007)
92. Epiplastron A (*sensu* Joyce 2007)
93. Hyoplastron A (*sensu* Joyce 2007)
- \*94. Mesoplastron A (*sensu* Joyce 2007)
95. Hypoplastron A (*sensu* Joyce 2007)
96. Xiphiplastron A (*sensu* Joyce 2007)
97. Xiphiplastron B (*sensu* Joyce 2007)
98. Plastral scutes A (*sensu* Joyce 2007)
99. Plastral scutes B (*sensu* Joyce 2007)
100. Gular A (*sensu* Joyce 2007)
101. Extragular A (*sensu* Joyce 2007)
102. Extragular B (*sensu* Joyce 2007)
103. Extragular C (*sensu* Joyce 2007)
104. Intergular A (*sensu* Joyce 2007)

- 105. Humeral A (*sensu* Joyce 2007)
- 106. Pectoral A (*sensu* Joyce 2007)
- \*107. Abdominal A (*sensu* Joyce 2007)
- 108. Anal A (*sensu* Joyce 2007)
- 109. Inframarginal A (*sensu* Joyce 2007)
- 110. Cervical rib A (*sensu* Joyce 2007)
- 111. Cervical vertebra A (*sensu* Joyce 2007)
- 112. Cervical vertebra B (*sensu* Joyce 2007)
- 113. Cervical vertebra C (*sensu* Joyce 2007)
- 114. Cervical articulation A (*sensu* Joyce 2007)
- 115. Cervical articulation B (*sensu* Joyce 2007)
- 116. Cervical articulation C (*sensu* Joyce 2007)
- 117. Cervical articulation D (*sensu* Joyce 2007)
- 118. Cervical articulation E (*sensu* Joyce 2007)
- 119. Cervical articulation F (*sensu* Joyce 2007)
- 120. Cervical articulation G (*sensu* Joyce 2007)
- 121. Cervical articulation H (*sensu* Joyce 2007)
- 122. Dorsal rib A (*sensu* Joyce 2007)
- 123. Dorsal rib B (*sensu* Joyce 2007)
- 124. Dorsal rib C (*sensu* Joyce 2007)
- 125. Dorsal vertebra A (*sensu* Joyce 2007)
- 126. Chevron A (*sensu* Joyce 2007)
- 127. Caudal A (*sensu* Joyce 2007)

128. Caudal B (*sensu* Joyce 2007, non Sterli 2008)

Note: Pectoral girdle A and B of Sterli (2008) removed.

\*129. Cleithrum A (*sensu* Joyce 2007)

130. Scapula A (*sensu* Joyce 2007)

131. Scapula B (*sensu* Joyce 2007)

132. Scapula C (*sensu* Joyce 2007)

133. Coracoid A (*sensu* Joyce 2007)

134. Pelvis A (*sensu* Joyce 2007, as modified by Sterli 2008)

135. Ilium A (*sensu* Joyce 2007)

136. Ilium B (*sensu* Joyce 2007)

137. Ilium C (*sensu* Joyce 2007)

138. Ilium D (*sensu* Joyce 2007)

139. Ischium A (*sensu* Joyce 2007)

140. Hypoischium A (*sensu* Joyce 2007)

141. Manus A (*sensu* Joyce 2007)

\*142. Manus B (*sensu* Joyce 2007)

\*143. Manus C (*sensu* Joyce 2007)

144. Pes A (*sensu* Joyce 2007)

145. Pes B (*sensu* Joyce 2007)