

Supplemental Appendix 1.

Measurements of vertebrae of *Chupkaornis keraorum* (in mm).

Vertebrate	<i>Chupkaornis keraorum</i>				
	C15	C16	C17	T3	T4
Length centrum	-	-	-	-	20.00
Width anterior articulation	10.92	-	13.82	-	14.70
Height anterior articulation	4.11	-	-	-	7.29
Width posterior articulation	-	-	-	-	14.47
Height posterior articulation	-	-	-	-	9.01
Diameter or rib articulation Head	-	-	-	5.05	5.39
Diameter of tuberculum	-	-	-	4.04	5.36
Diameter of neural canal	6.45	6.51	5.54	-	5.31
Height neural spine	-	-	10.03	8.44	-
Length base neural spine	-	8.31	12.02	-	-
Width across transverse process	-	-	-	-	-

Transverse diameter across prezygapophysis	20.30	-	13.98	-	14.30
Transverse diameter across postzygapophysis	-	-	-	-	-
Diameter of prezygapophysis	5.74	-	6.82	-	5.40
Diameter of postzygapophysis	-	6.75	-	-	-
Length of ventral process	-	-	-	-	11.91