

SUPPLEMENTARY DATA

Linear measurements used in the morphometric analysis. See Figure 5 for details of the measurements. All measurements are in centimeters.

Specimen	1	2	3	4	5	6	7
AMNH 1991	10.2	3.6	1.3	2	1.9	1.2	1
AMNH 5308	8.2	2.9	1.4	1.2	1.4	1	0.6
AMNH 5534	?	?	?	?	?	?	?
AMNH 8188	6.4	?	?	1.1	1.4	?	?
BP/1/1928	7.3	?	?	1.5	1.8	0.7	0.7
BP/1/287	?	2.6	?	?	?	0.9	0.6
BP/1/3011	7.1	2.3	0.8	1.3	?	0.8	0.4
BP/1/327	8.9	3.1	1.3	1.5	?	0.9	?
BP/1/850	7.7	3.0	1.3	1.5	?	0.8	0.5
BPI/1/1974	9	?	?	?	?	0.8	0.6
BPI/1/314	8.2	?	1.1	1.2	?	0.5	?
BPI/1/316	10.1	?	1.3	1.7	2	0.8	1
BPI/1/352	9.7	?	1.1	1.7	2.1	1	0.9
GPIT Von Huene 1922 r. 1-4	7.5	2.5	?	1.4	1.6	0.7	0.7
IVPP V.3620	?	?	1.6	2.0	2.1	?	1.1
NMNH 24643	11.6	5.3	1.9	2.5	2.1	1.2	1.8
NMQR 282	9.0	?	?	?	1.6	0.9	0.9
NMQR 298	9.2	3.5	1.3	1.7	1.8	?	0.8
NMQR 3121	7.2	2.3	?	1.2	1.2	0.7	?
NMQR 3427	9.0	3.1	0.9	1.9	1.8	1.1	?
ROM 52623	9.3	3	1.1	1.8	1.6	1.1	0.8
ROM 52624	?	?	?	1.3	?	?	0.6
ROM 52625	7.7	2.9	0.8	1.4	1.5	0.8	0.8
SAM-PK- 2354	7.2	2.6	1.1	1.6	1.3	1	0.8
SAM-PK-10078	7.5	2.8	1	1.4	1.5	1	0.7
SAM-PK-10086	9	3.5	1.4	1.8	1.4	1.1	1.1
SAM-PK-10341	8.3	2.8	1.2	1.5	1.2	1.1	0.8
SAM-PK-10377	?	3.2	1.2	1.5	?	0.9	0.9
SAM-PK-10394	9.1	3	1.1	1.6	?	1.1	0.9
SAM-PK-11084	8.5	2.8	1.2	1.6	?	1.0	0.8
SAM-PK-11563	9.5	3.3	1.2	1.7	1.8	1	0.8
SAM-PK-2354	7.3	2.6	1.1	1.6	1.1	0.8	0.8
SAM-PK-7420	10.3	4	1.6	2	2.3	1.4	1.1
SAM-PK-K1242	10.2	4.5	1.4	1.8	1.7	1.1	1.3
SAM-PK-K1633	11.3	4.5	1.5	2.2	2	1.3	1.6
SAM-PK-K5105	9.2	3.4	1.4	2.2	2	1.1	0.8
SAM-PK-K5189	7.6	2.8	0.9	1.4	1.4	0.9	1
SAM-PK-K5204	4.7	1.5	0.7	0.7	0.7	0.4	0.4
SAM-PK-K5990	7.5	2.5	1.2	1.2	1.4	0.9	0.7
SAM-PK-K6009	7.7	2.9	1.2	1.6	1.6	0.8	0.8
SAM-PK-K6017	8.5	2.5	1.7	1.8	1.8	0.6	0.3

SAM-PK-K6588	?	3.9	1.3	2.3	1.9	1	0.8
SAM-PK-K6654	?	?	?	2	1.8	?	?
SAM-PK-K6724	10.1	3.4	1.6	1.9	1.7	1.3	1
SAM-PK-K6818	12	5	1.9	2.2	?	1.8	1.6
SAM-PK-K6838	?	4.2	1.4	2.1	?	1	1.2
SAM-PK-K6873	9.8	4	1.5	1.9	1.7	1.3	1.4
SAM-PK-K6921	7.9	3.2	1.4	1.5	1.5	1.1	1
SAM-PK-K6929	11.8	?	1.4	2	2.3	1.3	1.3
SAM-PK-K6950	6.8	2.6	0.8	1.5	1.3	0.9	0.9
SAM-PK-K6979	7.4	?	?	1.2	1.4	?	?
SAM-PK-K7028 (1)	7.6	2.6	1	1.7	1.6	1	?
SAM-PK-K7028 (2)	8.3	3.2	1.1	1.8	1.8	1	1
SAM-PK-K7028 (3)	9.1	3.4	1.1	1.9	1.8	1.1	1.1
SAM-PK-K7036	6.4	2.6	1.0	1.3	?	0.6	0.8
SAM-PK-K7281	10.6	3.8	1.2	2	2.4	1.2	1.1
SAM-PK-K7603	9.7	?	1.2	2.1	?	1.2	1
SAM-PK-K7643	11.5	3.8	1.7	2.4	2.2	1.3	0.9
SAM-PK-K7673	9.8	3.5	1.5	1.8	1.9	1	1.1
SAM-PK-K7675	6.8	2.1	0.9	1.4	1.4	0.8	0.6
SAM-PK-K7730	9.4	4	?	1.6	1.8	1.1	1.2
SAM-PK-K7738	9.4	3.8	1.6	1.7	1.8	1.2	1
SAM-PK-K7795	7.2	2.8	0.9	1.4	?	0.8	0.7
SAM-PK-K8585	7.4	2.7	1.0	1.2	?	0.8	0.8
UCMP V3504/32125	?	3.4	1.1	?	?	1.0	?
UCMP V3504/32131	10.7	3.7	1.1	1.8	2.0	1.1	?
UCMP V3504/42837	8.6	3.2	1.0	1.5	1.9	1.0	?
UCMP V3691/41757	?	4.4	1.4	2.1	2.2	1.1	1.4
UCMP V3691/42056	6.1	1.9	0.7	1.2	0.9	0.6	0.6

Comparisons of the palate shapes of tuskless, intermediate, and tusked specimens. Significance should be judged at the Bonferroni corrected α of 0.0083. The available sample included 15 tuskless specimens, four with resorption pits, six with partially erupted tusks, and 13 with fully erupted tusks. Also see Figure 7 and Appendix 1.

	F	d.f.	p
tusked vs. tuskless	2.54	14, 364	0.002
tusked vs. partially erupted	0.97	14, 238	0.482
tusked vs. resorption pits	0.71	14, 210	0.760
tuskless vs. partially erupted	0.50	14, 266	0.932
tuskless vs. resorption pits	1.32	14, 238	0.195
partially erupted vs. resorption pits	1.00	14, 112	0.458