

Table s2 Measurements of skulls of *Bounomys ulantatalensis* compared with other ctenodactyls (mm)

	<i>Bounomys ulantatalensis</i>				<i>Cocomys lingchaensis</i>			<i>Exmus mini</i>		<i>Tataromys plicidens</i>	<i>Yindirtemys ambiguous</i>		<i>Bounomys bohlini</i>		<i>Sayimys obliquidens</i>
	V 26125	V 26126	V 26127	V 26128	V 7402	V 7403	V 7404	V 7429	V 7430	V 10534.1	RV 46001	Sh. 785	V 7348	V 7349	T.b. 279a,b
Skull length	47.47	43.34	40.89	42.93	28.89	34.64	40.58	34.95	33.88	70.04	/	/	/	/	/
Condylonasal length	46.36	≈37.6	39.1	42.91	28.89	34.64	/	33.7	33.65	66.13	/	/	/	/	/
Condylbasal length	45.23	40.26	37.69	40.73	25.61	30.61	/	28.99	31.96	63.08	/	/	/	/	/
Palatal length	22.49	21.76	19.62	21.17	10.45	12.17	/	11.92	12.81	35.37	/	/	/	/	/
Length of maxillary diastema	11.39	10.82	8.94	10.81	/	6.13	/	7.07	7.04	17.8	13.01	/	7.71	5.02	/
Length of palatal bridge	10.01	9.61	8.61	10.51	5.6	6.13	/	6.2	6.92	16.58	20.7	/	7.2	6.22	10.26
Length of upper cheek teeth	9.10	9.08	8.87	8.68	/	7.50	/	6.95	7.50	14.66	15.18	≈15.20	7.24	6.16	9.89
Anterior width of palatal bridge	2.56	1.81	2.75	3.11	/	3.37	/	≈4	≈3.86	3.83	/	1.63	2.37	2.01	3.35
Ratio of anterior width of palatal bridge to length of upper cheek teeth	0.28	0.20	0.31	0.36	/	0.45	/	0.58	0.51	0.26	/	0.11	0.33	0.33	0.34
Posterior width of palatal bridge	2.44	2.3	2.92	2.72	/	4.13	/	≈3.8	3.32	3.97	/	2.17	2.2	1.79	2.93
Length of incisive foramen	7.92	6.89	6.22	7.7	/	4.19	/	3.97	4.49	11.1	6.2	/	≈6.2	3.66	/
Width of incisive foramen	3.07	2.54	3.47	3.28	/	2.91	/	2.57	2.1	3.68	≈1.43	/	3.46	1.92	/
Ratio of length of incisive foramen to length of maxillary diastema	0.7	0.64	0.7	0.71	/	0.68	/	0.56	0.64	0.62	0.48	/	0.8	0.73	/
Dorsoventral diameter of infraorbital foramen	6.39	5.89	5.74	6.31	/	2.14	2.36	2.11	1.88	/	/	/	/	/	/

Lateral diameter of infraorbital foramen	7.27	4.96	5.75	5.76	/	2.03	2.01	2.11	2.08	/	/	/	/	/	/
Anteroposterior diameter of sphenopalatine foramen	3.85	4.29	3.62	4.56	0.99	/	/	1.79	1.87	/	/	/	4.21	3.41	/
Dorsoventral diameter of sphenopalatine foramen	2.12	2.80	2.29	2.60	0.60	/	/	0.79	0.92	/	/	/	/	1.94	/
Rostrum length (dorsal)	10.46	10.21	7.9	9.95	6.69	9.7	10.91	10.3	10.45	16.39	21.9	/	10.84	/	/
Rostrum length (ventral)	14.56	13.61	11.08	12.68	/	8.18	7.64	9.18	9.72	25.3	11.84	/	6.89	/	/
Anterior width of rostrum	8.41	≈6.84	8.08	8.23	3.82	4.7	5.9	4.8	4.95	14.84	/	/	/	/	/
Posterior width of rostrum	7.41	7.2	7.21	7.37	6.78	9	8.67	8.32	8.21	11.48	/	/	/	4.96	/
Rostrum height	10.97	8.9	8.62	9.98	5.73	6.97	7.33	6.07	5	17.82	/	/	5.61	6.77	/
Height of middle part of skull	13.04	11.42	10.36	12.29	/	9.11	8.69	7.95	7.06	20.9	14.65	/	9.49	8.6	/
Nasal length	17.16	≈12.16	16.03	16.56	9.42	/	/	10.71	10.62	27.26	/	/	/	/	/
Anterior width of nasals	8.05	6.58	6.99	8.08	3.1	/	/	4.45	4.76	14.7	11.86	/	/	/	/
Posterior width of nasals	4.84	3.86	4.73	4.2	6.13	/	/	4.8	4.01	6.05	/	/	/	2.45	/
Interorbital width	10.08	8.03	9.31	9.36	6.97	/	10.42	10.02	9.26	15.2	/	/	/	6.1	/
Width of postorbital constriction	9.6	8.13	8.95	9.11	4.45	7.5	6.76	5.77	5.12	14.76	/	/	/	5.52	/
Width of cranial part at epitympanic recess eminence	/	23.48	24.88	24.09	12.32	13.99	/	13.44	13.74	32.8	/	/	/	/	/
Zygomatic width	28.2	26.6	26.8	26.97	/	/	/	/	/	/	/	/	/	/	/
Length of auditory bulla	/	15.22	15.2	15.57	/	8.54	/	8	7.67	/	/	/	/	/	12.93
Width of auditory bulla	/	8.15	8.53	9.7	/	5.85	/	5.47	5.2	/	/	/	/	/	6.18
Distance between two auditory bullae	2.1	1.92	2.3	1.86	/	2.4	/	2.6	2.07	/	/	/	/	/	1.76

Ratio of length of auditory bulla to skull length	/	0.35	0.37	0.36	/	0.23	/	0.23	0.23	/	/	/	/	/	/
Nuchal height	11	10.09	≈8.89	11.54	7.45	8.7	10.03	8.56	/	/	/	/	/	/	8.16
Height of foramen magnum	4.55	4.52	3.27	5.14	3.99	/	5.18	4.76	/	/	/	/	/	/	/
Width of foramen magnum	6.04	5.6	6.54	5.55	4.36	/	5.52	6.78	/	/	/	/	/	/	/
Mandibular length	/	/	27.07	28.84	/	/	/	23	/	/	/	/	/	/	/
Mandibular height	/	/	/	/	/	/	/	13.9	/	/	/	/	/	/	/
Height of condyloid process of mandible	/	/	/	14.48	/	/	/	/	9.62	/	/	/	/	/	/
Depth of mandibular notch	≈3.88	/	/	/	/	/	/	5.49	/	/	/	/	/	/	/
Length of mandibular diastema	8.52	/	6	6.36	/	/	/	/	3.7	9.65	8.65	/	3.99	/	5.22
Ratio of length of mandibular diastema to mandibular length	/	/	0.22	0.22	/	/	/	/	/	/	/	/	/	/	/
Height of mandibular diastema	4.08	3.68	3.69	4.08	/	/	/	3.99	/	6.38	5.13	/	2.68	/	/
Height of horizontal ramus of mandible	6.89	5.84	6.34	6.61	/	/	/	4.92	4.24	10.79	9.87	/	4.93	/	/

“≈” indicates that the value is estimated; “/” indicates that no data is available.