

Table S1. Bone measurements from X-ray images of *Evc^{-/-}* and control mice

	Average measurement±s.e. (mm)		ANOVA <i>P</i> value
	Control [§]	<i>Evc^{-/-}</i>	
P1	(n=5-8)	(n=4-5)	
Body length [†]	18.3±0.49	17.2±1.53	ns
Skull length	8.9±0.40	8.2±0.30	ns
Skull width	7.3±0.27	7.1±0.30	ns
Rib cage width [‡]	8.2±0.33	6.9±0.10	0.013*
Humerus	3.1±0.19	2.7±0.11	ns
Ulna	3.4±0.14	2.8±0.18	0.019*
Radius	2.6±0.14	2.0±0.24	0.038*
Femur	2.7±0.10	1.8±0.10	1×10 ⁻⁵ ***
Tibia	3.1±0.14	2.1±0.15	0.0002***
Ratio rib cage width:body length	0.44±0.01	0.41±0.04	ns
Ratio radius:humerus	0.90±0.04	0.75±0.07	ns
Ratio tibia:femur	1.26±0.03	1.17±0.09	ns
P18	(n=3-6)	(n=4)	
Body length [†]	38.7±0.19	31.6±0.14	0.0001***
Skull length	15.4±0.41	13.8±0.89	ns
Skull width	10.5±0.10	10.3±0.08	ns
Rib cage width [‡]	16.7±0.50	12.0±0.25	5×10 ⁻⁵ ***
Humerus	6.9±0.13	5.4±0.12	3×10 ⁻⁷ ***
Ulna	9.4±0.10	6.2±0.06	1×10 ⁻⁸ ***
Radius	7.7±0.06	4.8±0.10	9×10 ⁻¹⁶ ***
Femur	6.6±0.15	5.2±0.17	7×10 ⁻⁶ ***
Tibia	10.6±0.13	6.9±0.12	1×10 ⁻¹³ ***
Ratio rib cage width:body length	0.43±0.02	0.37±0.01	0.00853**
Ratio radius:humerus	1.12±0.02	0.89±0.04	0.00065**
Ratio tibia:femur	1.62±0.05	1.34±0.03	0.0045**

Significant differences between *Evc^{-/-}* and control: *, *P*<0.05; **, *P*<0.01; ***, *P*<0.0005.

ns, Difference not significant.

[†]Not including head and tail.

[‡]Measured at widest part of rib cage.

[§]Bone measurements of wild-type and heterozygous mice were combined and denoted as control as they did not differ significantly.