

**Supplemental Table S2. Statistics of lncRNAs of different evolutionary ages, with or without phenotypic effects.**

Age (MY)	With defective knockout phenotype	Without defective knockout phenotype	Subtotal	Proportion with knockout phenotype	<i>P</i> *
<b>Young lncRNAs</b>					
0 - 20	12	24	36	33.3%	1.00
20 - 40	12	20	32	37.5%	1.00
Total	24	44	68	35.3%	1.00
<b>Old lncRNAs</b>					
>40	17	31	48	35.4%	–

\*Two-tailed Fisher's exact test *P* for lncRNAs with/without phenotype in each age group compared with old lncRNA genes (>40 Mya).