

# Supplemental Materials

*Molecular Biology of the Cell*

Lee et al.

Supplementary Material

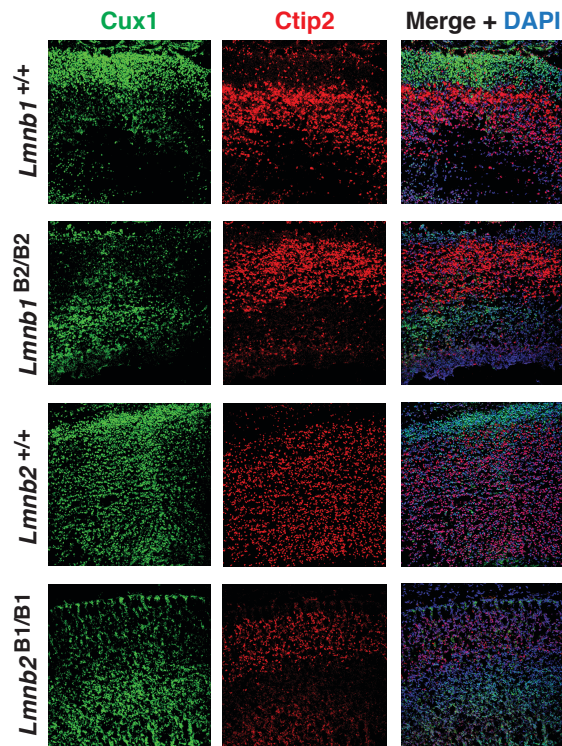
Reciprocal knock-in mice to investigate the functional redundancy of lamin B1 and lamin B2  
by John M. Lee and coworkers

E18.5 embryos	Body weight (g)	P value
Wild-type (n = 22)	1.20 ± 0.14	
<i>Lmnb1</i> <sup>B2/B2</sup> (n = 10)	0.86 ± 0.12	< 0.001 <sup>a</sup>
<i>Lmnb2</i> <sup>B1/B1</sup> (n = 20)	1.18 ± 0.11	0.65 <sup>a</sup>
<i>Lmnb1</i> <sup>-/-</sup> (n = 5)	0.69 ± 0.08	0.007 <sup>b</sup>

E18.5 embryos	Brain weight (g)	P value
Wild-type (n = 22)	0.09 ± 0.01	
<i>Lmnb1</i> <sup>B2/B2</sup> (n = 10)	0.05 ± 0.01	< 0.001 <sup>a</sup>
<i>Lmnb2</i> <sup>B1/B1</sup> (n = 20)	0.06 ± 0.01	< 0.001 <sup>a</sup>
<i>Lmnb1</i> <sup>-/-</sup> (n = 5)	0.03 ± 0.01	< 0.001 <sup>b</sup>

E18.5 embryos	Brain weight (g)	P value
<i>Lmnb1</i> <sup>B2/B2</sup> (n = 10)	0.05 ± 0.01	
<i>Lmnb1</i> <sup>B2/B2</sup> <i>Lmnb2</i> <sup>B1/B1</sup> (n = 5)	0.06 ± 0.01	0.002 <sup>b</sup>

**Supplementary Table 1.** Body and brain weights of wild-type, *Lmnb1*<sup>B2/B2</sup>, *Lmnb1*<sup>B1/B1</sup>, *Lmnb1*<sup>-/-</sup>, and *Lmnb1*<sup>B2/+</sup> *Lmnb2*<sup>B1/B1</sup> mice. <sup>a</sup>, compared with wild-type embryos; <sup>b</sup>, compared with *Lmnb1*<sup>B2/B2</sup> embryos.



**Supplementary Figure 1.** Abnormal layering of neurons in the cerebral cortex of wild-type, *Lmnb1*<sup>B2/B2</sup>, and *Lmnb1*<sup>B1/B1</sup> embryos. Immunostaining of sections from the cerebral cortex of E18.5 embryos with antibodies against Cux1 and Ctip2. In wild-type brains, Cux1 was predominantly located in more superficial layers (compared with Ctip2). Significant amounts of Ctip2 were found in more superficial regions of the cortex in *Lmnb1*<sup>B2/B2</sup> and *Lmnb1*<sup>B1/B1</sup> embryos.