

Supplementary Table 1. Expression of GABAergic neuronal markers in the mouse cortex.

Gene	WT (mean FPKM)	Df/+ (mean FPKM)	P value
<i>marker</i>			
<i>Pvalb</i>	61.19 ± 1.447	51.99 ± 0.816	0.017
<i>Cck</i>	296.2 ± 10.33	283.0 ± 8.017	0.718
<i>Sst</i>	321.5 ± 11.97	319.8 ± 14.19	0.400
<i>Vip</i>	15.89 ± 0.289	15.21 ± 0.661	0.557
<i>transporter</i>			
<i>Slc6a1</i> (GAT1)	106.8 ± 3.325	104.0 ± 2.059	0.580
<i>Slc6a13</i> (GAT2)	6.534 ± 0.344	5.219 ± 0.181	0.021
<i>Slc6a11</i> (GAT3)	76.22 ± 4.705	71.73 ± 1.024	0.734
<i>Slc32a1</i> (VGAT)	54.50 ± 0.963	52.89 ± 2.777	0.959
<i>decarboxylase</i>			
<i>Gad2</i> (GAD65)	42.16 ± 0.335	41.73 ± 0.471	0.484
<i>Gad1</i> (GAD67)	126.4 ± 2.821	121.1 ± 2.244	0.971
<i>receptor</i>			
<i>Gabra1</i> (GABA _A α1)	81.84 ± 0.781	77.84 ± 1.421	0.745
<i>Gabrb1</i> (GABA _A β1)	10.99 ± 1.424	10.87 ± 0.356	0.914
<i>Gabrg1</i> (GABA _A γ1)	5.676 ± 0.344	5.453 ± 0.174	0.552
<i>Gabbr1</i> (GABA _B 1)	142.4 ± 1.935	140.4 ± 1.432	0.068
<i>Gabbr2</i> (GABA _B 2)	54.28 ± 1.297	53.96 ± 0.659	0.295

Mean FPKM values are calculated from 3 mice. Data are presented as the mean ± s.e.m.

Note that *P* value is not corrected.

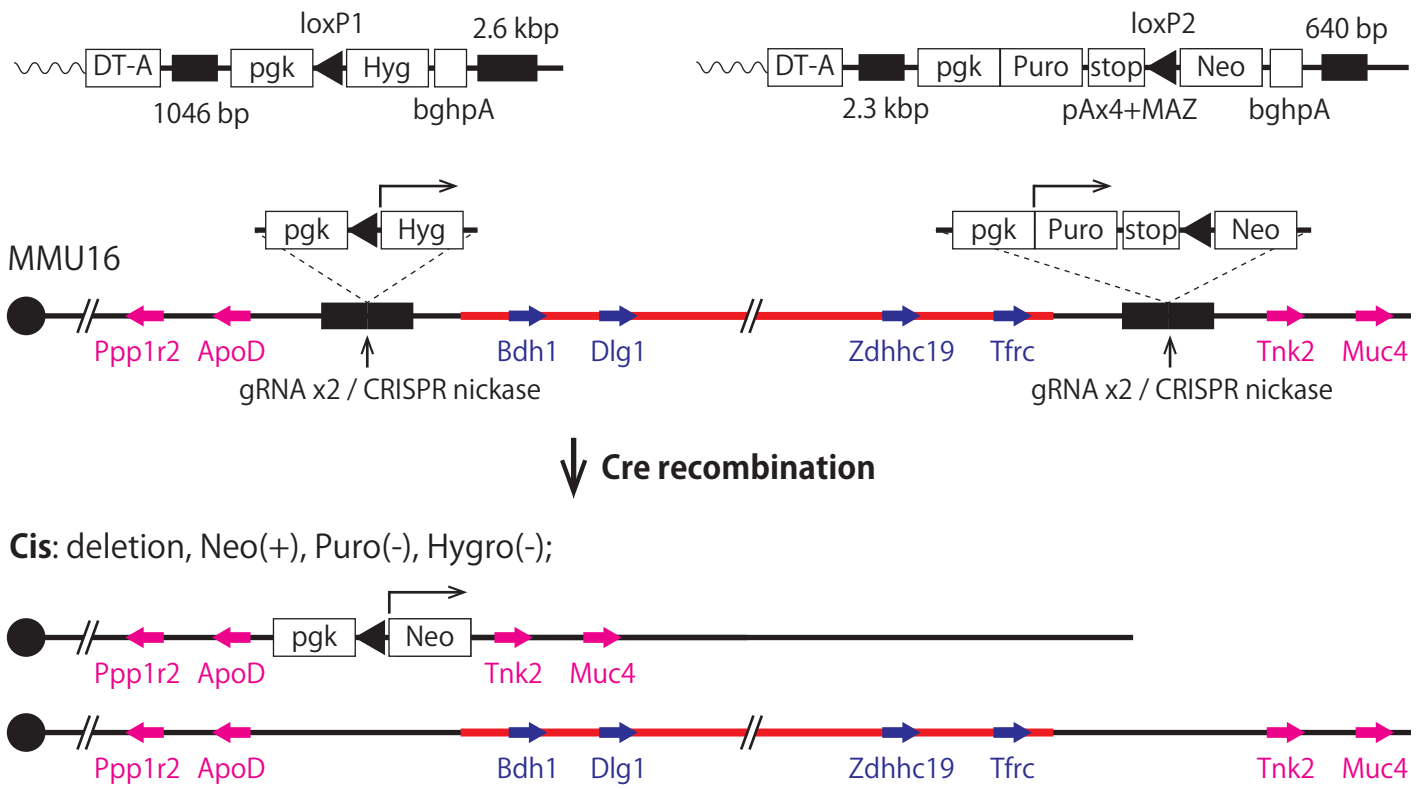
Supplementary Table 2. Expression of excitatory neuronal markers in the mouse cortex.

Gene	WT (mean FPKM)	Df/+ (mean FPKM)	P value
<i>transporter</i>			
<i>Slc17a7</i> (VGLUT1)	342.4 ± 2.614	346.3 ± 9.265	0.067
<i>Slc17a6</i> (VGLUT2)	18.46 ± 1.111	17.76 ± 0.380	0.820
<i>Slc17a8</i> (VGLUT3)	0.981 ± 0.061	0.872 ± 0.040	0.189
<i>glutamine synthetase</i>			
<i>Glul</i>	475.6 ± 25.85	430.6 ± 9.038	0.375
<i>receptor</i>			
<i>Gria1</i> (GluA1)	75.03 ± 0.950	76.99 ± 0.355	0.102
<i>Gria2</i> (GluA2)	91.46 ± 6.512	97.87 ± 4.338	0.325
<i>Grin1</i> (GluN1)	120.7 ± 1.756	126.1 ± 2.951	0.006
<i>Grin2a</i> (GluN2A)	8.728 ± 1.349	10.81 ± 0.054	0.271
<i>Grin2b</i> (GluN2B)	8.021 ± 1.996	10.63 ± 0.922	0.348

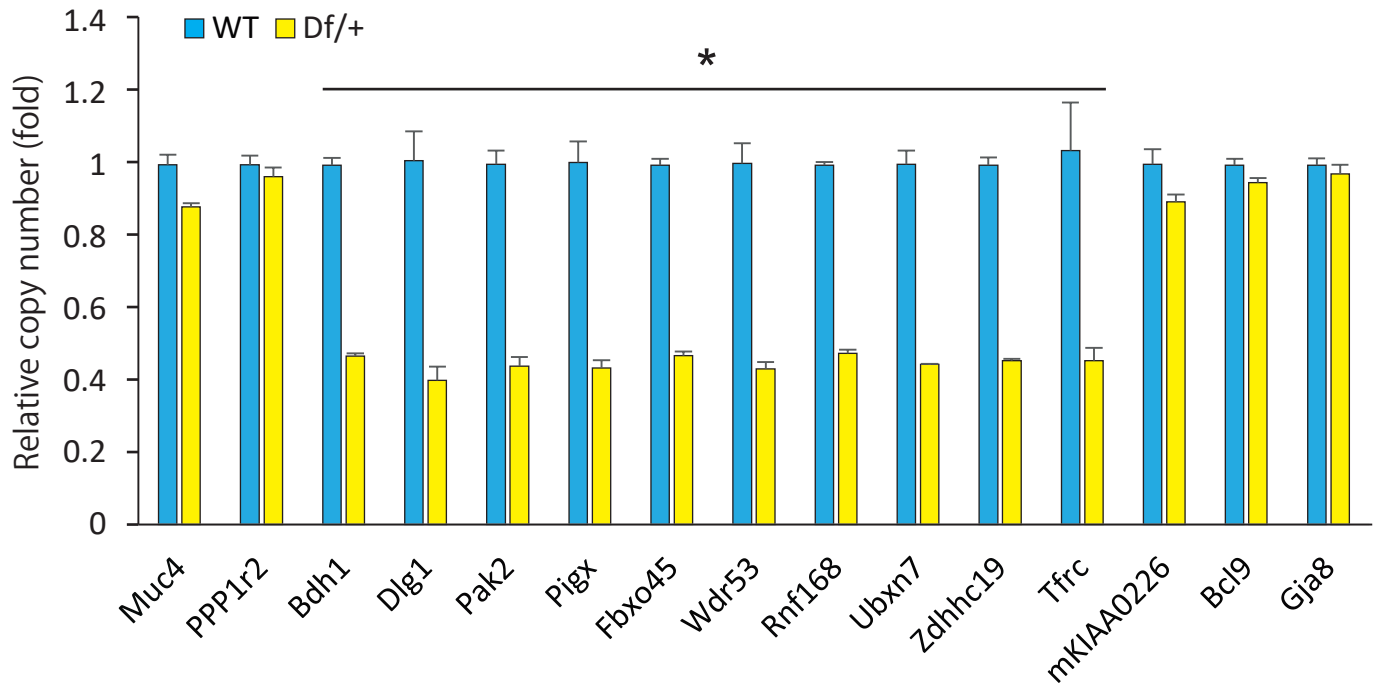
Mean FPKM values are calculated from 3 mice. Data are presented as the mean ± s.e.m.

Note that *P* value is not corrected.

a



b



Supplementary Figure 1. Baba et al.

1 **Supplementary Fig. 1** Generation and characterization of Df/+ mice. **a** Schematic of the
2 strategy used to generate Df/+ mice. For details, see Materials and Methods. **b** Decreased
3 genomic copy number of the *Bdh1-Tfrc* region in Df/+ mice. Copy number analysis of the
4 *Bdh1-Tfrc* region was performed by genomic qPCR analysis.