



HOKKAIDO UNIVERSITY

Title	Mouse Hair Significantly Lightened Through Replacement of the Cysteine Residue in the N-Terminal Domain of Mc1r Using the CRISPR/Cas9 System
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Table 1. List of G0 mice in the C57BL6 background and their genotypes determined in this study.

Sample code	Coat color*	Genotype**	Mouse selected***
1	Y	c.98G>T/c.95_96del	✓
2	Y	ND	
3	Y	c.98G>C/c.98G>C	✓
4	Y	ND	
5	Y	ND	
6	M	c.94_96del/c.98G>T	
7	M	c.94_96del/c.97insC, c.98G>T	
8	Y	c.92_98del/c.96del	
9	I	c.98G>C/95_96del	
10	Y	c.98G>T/c.98G>T	✓
11	Y	c.94_96del/c.98G>C	
12	I	c.97insT/c.97insT	
13	Y	c.98G>T/c.94_95del	✓
14	I	ND	
15	Y	c.98G>T/ND	
16	I	ND	
17	I	c.98G>T/c.98G>T, c.99del	
18	Y	c.98G>T/c.98G>T	
19	Y	c.98G>T/c.94_96del	
20	Y	ND	
21	M	ND	
22	Y	c.98G>T/c.96_99del	
23	Y	c.98G>T/c.98G>T	
24	Y	c.98G>T/c.98G>T, c.99del	
25	Y	c.98G>T/c.96_99del	
26	Y	c.98G>T/c.96_99del	
27	Y	ND	
28	I	c.98G>T/c.98G>T	

100 fertilized embryos from 5 female mice were subjected to electroporation. After cell culture, 99 injected eggs of the 2-cell stage were transferred to the oviducts of 5 pseudopregnant females, resulting in 28 offsprings.

*Coat color was temporarily categorized into three, yellowish (Y), melanistic (WT), and intermediate (I) types. See Supplementary Figure S1 for detail.

**ND, genotyping was failed to determine because of ambiguous results in the direct sequencing probably due to complex deletion and mosaicism.

***G₀ mouse subjected to further breeding experiment was marked.