

Mecp2-Flox

系統名	C57BL/6Smoc- <i>Mecp2</i> ^{tm2(flox)Smoc}
SMOC番号	NM-CKO-190001
維持形態	Repository Live

遺伝子の概要

Gene Symbol Mecp2	Synonyms	Mbd5, WBP10, 1500041B07Rik, D630021H01Rik
	NCBI ID	17257
	MGI ID	99918
	Ensembl ID	ENSMUSG00000031393
	Human Ortholog	MECP2

説明

These mice carry loxP sites flanking exon 2-3. When crossed with a Cre recombinase-expressing strain, this strain is useful in eliminating tissue-specific conditional expression of the gene.

応用分野: Rett syndrome, autism

*Literature published using this strain should indicate: Mecp2-Flox mice (Cat. NO. NM-CKO-190001) were purchased from Shanghai Model Organisms Center, Inc..

病気の予測

Rett Syndrome	表現型	MGI:3624680 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Nes-cre mice.
	参考文献	Chen RZ, Akbarian S, Tudor M, Jaenisch R, Deficiency of methyl-CpG binding protein-2 in CNS neurons results in a Rett-like phenotype in mice. Nat Genet. 2001 Mar;27(3):327-31

Rett syndrome	表現型	MGI:6098756 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Chat-Cre mice.
	参考文献	Herrera JA, Ward CS, Wehrens XH, Neul JL, Methyl-CpG binding-protein 2 function in cholinergic neurons mediates cardiac arrhythmogenesis. Hum Mol Genet. 2016 Nov 15;25(22):4983-4995
Rett syndrome	表現型	MGI:5306255 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Bdnf-Flox(NM-CKO-200064) and Camk2a-cre mice.
	参考文献	Chang Q, Khare G, Dani V, Nelson S, Jaenisch R, The disease progression of Mecp2 mutant mice is affected by the level of BDNF expression. Neuron. 2006 Feb 2;49(3):341-8

表現型データ

No data