

Gba-Flox

系統名	C57BL/6Smoc- <i>Gba</i> ^{em2(flox)Smoc}
SMOC番号	NM-CKO-200051
維持形態	Sperm cryopreservation

遺伝子の概要

Gene Symbol Gba	Synonyms	GC; GBA1; GLUC; GCase; betaGC
	NCBI ID	14466
	MGI ID	95665
	Ensembl ID	ENSMUSG00000028048
	Human Ortholog	GBA

説明

These mice carry loxP sites flanking exon 8-11 of Gba gene. When crossed with a Cre recombinase-expressing strain, this strain is useful in eliminating tissue-specific conditional expression of Gba gene. While Gba-Flox(2)(Stock No. NM-CKO-200179) mice carrying the loxP sites flanking exon 6-8 of Gba gene.

応用分野: Gaucher disease research

*Literature published using this strain should indicate: Gba-Flox mice (Cat. NO. NM-CKO-200051) were purchased from Shanghai Model Organisms Center, Inc..

病気の予測

Gaucher's Disease Type I	表現型	MGI:3699178 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Tek-cre mice.
	参考文献	Sinclair GB, Jevon G, Colobong KE, Randall DR, Choy FY, Clarke LA, Generation of a conditional knockout of murine glucocerebrosidase: Utility for the study of Gaucher disease. Mol Genet Metab. 2007 Feb;90(2):148-56

Gaucher's disease type I	表現型	MGI:3688418 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Mx1-cre mice.
	参考文献	Enquist IB, Nilsson E, Ooka A, Mansson JE, Olsson K, Ehinger M, Brady RO, Richter J, Karlsson S, Effective cell and gene therapy in a murine model of Gaucher disease. Proc Natl Acad Sci U S A. 2006 Sep 12;103(37):13819-24
Gaucher's disease type I	表現型	MGI:4867688 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Mx1-cre mice.
	参考文献	Mistry PK, Liu J, Yang M, Nottoli T, McGrath J, Jain D, Zhang K, Keutzer J, Chuang WL, Mehal WZ, Zhao H, Lin A, Mane S, Liu X, Peng YZ, Li JH, Agrawal M, Zhu LL, Blair HC, Robinson LJ, Iqbal J, Sun L, Zaidi M, Glucocerebrosidase gene-deficient mouse recapitulates Gaucher disease displaying cellular and molecular dysregulation beyond the macrophage. Proc Natl Acad Sci U S A. 2010 Nov 9;107(45):19473-8
Gaucher's Disease	表現型	MGI:4867688 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Mx1-cre mice.
	参考文献	Mistry PK, et al., Glucocerebrosidase gene-deficient mouse recapitulates Gaucher disease displaying cellular and molecular dysregulation beyond the macrophage. Proc Natl Acad Sci U S A. 2010 Nov 9;107(45):19473-8
Gaucher's Disease Type Ii	表現型	MGI:3764515 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with KRT14-cre mice.
	参考文献	Enquist IB, Bianco CL, Ooka A, Nilsson E, Mansson JE, Ehinger M, Richter J, Brady RO, Kirik D, Karlsson S, Murine models of acute neuronopathic Gaucher disease. Proc Natl Acad Sci U S A. 2007 Oct 30;104(44):17483-8

表現型データ

No data

