

Ext1-Flox

系統名	C57BL/6Smoc- <i>Ext1</i> ^{em1(flox)Smoc}
SMOC番号	NM-CKO-241959
維持形態	Developing

遺伝子の概要

Gene Symbol Ext1	Synonyms	AA409028
	NCBI ID	14042
	MGI ID	894663
	Ensembl ID	ENSMUSG00000061731
	Human Ortholog	EXT1

説明

These strains carry loxP sites flanking exon 1 of Ext1 gene. When crossed with a Cre recombinase-expressing strain, this strain is useful in eliminating tissue-specific conditional expression of Ext1 gene.

*Literature published using this strain should indicate: Ext1-Flox mice (Cat. NO. NM-CKO-241959) were purchased from Shanghai Model Organisms Center, Inc..

病気の予測

Hereditary Multiple Exostoses	表現型	MGI:4437605 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Col2a1-rtTA,tetO-cre mice.
	参考文献	Jones KB, Piombo V, Searby C, Kurriger G, Yang B, Grabellus F, Roughley PJ, Morcuende JA, Buckwalter JA, Capecchi MR, Vortkamp A, Sheffield VC, A mouse model of osteochondromagenesis from clonal inactivation of Ext1 in chondrocytes. Proc Natl Acad Sci U S A. 2010 Feb 2;107(5):2054-9

hereditary multiple exostoses	表現型	MGI:4818630 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Col2a1-cre/ERT mice.
	参考文献	Matsumoto K, Irie F, Mackem S, Yamaguchi Y, A mouse model of chondrocyte-specific somatic mutation reveals a role for Ext1 loss of heterozygosity in multiple hereditary exostoses. Proc Natl Acad Sci U S A. 2010 Jun 15;107(24):10932-7
hereditary multiple exostoses	表現型	MGI:6101207 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Col2a1-cre/ERT mice.
	参考文献	Sinha S, Mundy C, Bechtold T, Sgariglia F, Ibrahim MM, Billings PC, Carroll K, Koyama E, Jones KB, Pacifici M, Unsuspected osteochondroma-like outgrowths in the cranial base of Hereditary Multiple Exostoses patients and modeling and treatment with a BMP antagonist in mice. PLoS Genet. 2017 Apr;13(4):e1006742
Autism Spectrum Disorder	表現型	MGI:5316488 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Camk2a-cre mice.
	参考文献	Irie F, Badie-Mahdavi H, Yamaguchi Y, Autism-like socio-communicative deficits and stereotypies in mice lacking heparan sulfate. Proc Natl Acad Sci U S A. 2012 Mar 27;109(13):5052-6
Hereditary Multiple Exostoses	表現型	MGI:6101205 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Acan-Cre mice.
	参考文献	Sinha S, Mundy C, Bechtold T, Sgariglia F, Ibrahim MM, Billings PC, Carroll K, Koyama E, Jones KB, Pacifici M, Unsuspected osteochondroma-like outgrowths in the cranial base of Hereditary Multiple Exostoses patients and modeling and treatment with a BMP antagonist in mice. PLoS Genet. 2017 Apr;13(4):e1006742

表現型データ

No data

