

Ext1-Flox

品系全名	C57BL/6Smoc- <i>Ext1</i> ^{em1(flox)Smoc}
目录号	待定
品系状态	在研

基因信息

基因名 Ext1	基因曾用名	AA409028
	NCBI ID	14042
	MGI ID	894663
	Ensembl ID	ENSMUSG00000061731
	人类同源基因	EXT1
	人类同源基因关联疾病	软骨肉瘤、Langer-Giedion综合症

品系描述

在Ext1基因目的exons两侧分别插入loxP位点。该flox小鼠可与组织特异性Cre工具鼠交配，获得在特定细胞类型或组织中敲除Ext1基因的小鼠模型。

*使用本品系发表的文献需注明: Ext1-Flox mice (Cat. NO. 待定) were purchased from Shanghai Model Organisms Center, Inc..

疾病预测

遗传性多发性外生骨疣 Hereditary Multiple Exostoses	近似模型的表型	MGI:4437605 注：该品系与Col2a1-rtTA,tetO-cre工具鼠交配才可能获得预期表型
	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

遗传性多发性外生骨疣 Hereditary Multiple Exostoses	近似模型的表型	MGI:4818630 注：该品系与Col2a1-cre/ERT工具鼠交配才可能获得预期表型
	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
遗传性多发性外生骨疣 Hereditary Multiple Exostoses	近似模型的表型	MGI:6101205 注：该品系与Acan-Cre工具鼠交配才可能获得预期表型
	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
遗传性多发性外生骨疣 Hereditary Multiple Exostoses	近似模型的表型	MGI:6101207 注：该品系与Col2a1-cre/ERT工具鼠交配才可能获得预期表型
	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
自闭症谱系障碍 Autism Spectrum Disorder	近似模型的表型	MGI:5316488 注：该品系与Camk2a-cre工具鼠交配才可能获得预期表型
	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

验证数据

暂无数据