

Dicer1-Flox

品系全名	C57BL/6Smoc- <i>Dicer1</i> ^{em1(flox)Smoc}
目录号	NM-CKO-200158
品系状态	精子冻存

基因信息

基因名 Dicer1	基因曾用名	D12Ertd7e; mKIAA0928; 1110006F08Rik
	NCBI ID	192119
	MGI ID	2177178
	Ensembl ID	ENSMUSG00000041415
	人类同源基因	DICER1

品系描述

在Dicer1基因exon 23两侧分别插入loxP位点，建立Dicer1基因条件性敲除小鼠模型。

应用领域：缺氧介导的EMT，茎干和基因表达相关研究

*使用本品系发表的文献需注明: Dicer1-Flox mice (Cat. NO. NM-CKO-200158) were purchased from Shanghai Model Organisms Center, Inc..

疾病预测

扩张型心肌病 Dilated Cardiomyopathy	近似模型的表型	MGI:5906349 注：该品系与Myh6-cre工具鼠交配才可能获得预期表型
	参考文献	Chen JF, Murchison EP, Tang R, Callis TE, Tatsuguchi M, Deng Z, Rojas M, Hammond SM, Schneider MD, Selzman CH, Meissner G, Patterson C, Hannon GJ, Wang DZ, Targeted deletion of Dicer in the heart leads to dilated cardiomyopathy and heart failure. Proc Natl Acad Sci U S A. 2008 Feb 12;105(6):2111-6

鳞状细胞癌 Squamous Cell Carcinoma	近似模型的表型	MGI:5618123 注：该品系与P53-Flox(2)(NM-CKO-190067)和KRT5-cre/PGR工具鼠交配才可能获得预期表型
	参考文献	Lyle S, Hoover K, Colpan C, Zhu Z, Matijasevic Z, Jones SN, Dicer cooperates with p53 to suppress DNA damage and skin carcinogenesis in mice. PLoS One. 2014;9(6):e100920
卵巢癌 Ovarian Cancer	近似模型的表型	MGI:5704363 注：该品系与Pten-Flox(NM-CKO-18004)和Amhr2-Cre工具鼠交配才可能获得预期表型
	参考文献	Kim J, Coffey DM, Creighton CJ, Yu Z, Hawkins SM, Matzuk MM, High-grade serous ovarian cancer arises from fallopian tube in a mouse model. Proc Natl Acad Sci U S A. 2012 Mar 6;109(10):3921-6
卵巢癌 Ovarian Cancer	近似模型的表型	MGI:5704370 注：该品系与Pten-Flox(NM-CKO-18004), P53-Flox(2)(NM-CKO-190067)和Amhr2-Cre工具鼠交配才可能获得预期表型
	参考文献	Kim J, Coffey DM, Ma L, Matzuk MM, The ovary is an alternative site of origin for high-grade serous ovarian cancer in mice. Endocrinology. 2015 Jun;156(6):1975-81

验证数据

暂无数据