

# Nf2-Flox

系統名	C57BL/6Smoc- <i>Nf2</i> <sup>tm1(flox)Smoc</sup>
SMOC番号	NM-CKO-200017
維持形態	Sperm cryopreservation

## 遺伝子の概要

Gene Symbol Nf2	Synonyms	merlin
	NCBI ID	<a href="#">18016</a>
	MGI ID	<a href="#">97307</a>
	Ensembl ID	<a href="#">ENSMUSG00000009073</a>
	Human Ortholog	NF2

## 説明

These mice carry loxP sites flanking exon 2 of Nf2 gene. When crossed with a Cre recombinase-expressing strain, this strain is useful in eliminating tissue-specific conditional expression of Nf2 gene.

**応用分野:** Cancer research

\*Literature published using this strain should indicate: Nf2-Flox mice (Cat. NO. NM-CKO-200017) were purchased from Shanghai Model Organisms Center, Inc..

## 病気の予測

Renal Cell Carcinoma	表現型	<a href="#">MGI:3850478</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Vil1-cre mice.
	参考文献	Morris ZS, McClatchey AI, Aberrant epithelial morphology and persistent epidermal growth factor receptor signaling in a mouse model of renal carcinoma. Proc Natl Acad Sci U S A. 2009 Jun 16;106(24):9767-72

<b>Neurofibromatosis</b>	<b>表現型</b>	<a href="#">MGI:5619302</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Postn-cre mice.
	<b>参考文献</b>	Gehlhausen JR, Park SJ, Hickox AE, Shew M, Staser K, Rhodes SD, Menon K, Lajiness JD, Mwanthi M, Yang X, Yuan J, Territo P, Hutchins G, Nalepa G, Yang FC, Conway SJ, Heinz MG, Stemmer-Rachamimov A, Yates CW, Wade Clapp D, A murine model of neurofibromatosis type 2 that accurately phenocopies human schwannoma formation. Hum Mol Genet. 2015 Jan 1;24(1):1-8
<b>Otitis Media</b>	<b>表現型</b>	<a href="#">MGI:3850388</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Mpz-cre mice.
	<b>参考文献</b>	Giovannini M, Robanus-Maandag E, van der Valk M, Niwa-Kawakita M, Abramowski V, Goutebroze L, Woodruff JM, Berns A, Thomas G, Conditional biallelic Nf2 mutation in the mouse promotes manifestations of human neurofibromatosis type 2. Genes Dev. 2000 Jul 1;14(13):1617-30
<b>Thyroid Gland Cancer</b>	<b>表現型</b>	<a href="#">MGI:5784770</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Hras-Flox(NM-CKO-2117376) and TPO-cre mice.
	<b>参考文献</b>	Garcia-Rendueles ME, Ricarte-Filho JC, Untch BR, Landa I, Knauf JA, Voza F, Smith VE, Ganly I, Taylor BS, Persaud Y, Oler G, Fang Y, Jhanwar SC, Viale A, Heguy A, Huberman KH, Giancotti F, Ghossein R, Fagin JA, NF2 Loss Promotes Oncogenic RAS-Induced Thyroid Cancers via YAP-Dependent Transactivation of RAS Proteins and Sensitizes Them to MEK Inhibition. Cancer Discov. 2015 Nov;5(11):1178-93

## 表現型データ

No data