

# Ctnnb1-Flox

系統名	C57BL/6Smoc- <i>Ctnnb1</i> <sup>em1(flox)Smoc</sup>
SMOC番号	NM-CKO-200154
維持形態	Repository Live

## 遺伝子の概要

Gene Symbol Ctnnb1	Synonyms	Bfc; Mesc; Catnb
	NCBI ID	<a href="#">12387</a>
	MGI ID	<a href="#">88276</a>
	Ensembl ID	<a href="#">ENSMUSG00000006932</a>
	Human Ortholog	CTNNB1

## 説明

These mice carry loxP sites flanking exon 2-6 of *Ctnnb1* gene. When crossed with a Cre recombinase-expressing strain, this strain is useful in eliminating tissue-specific conditional expression of *Ctnnb1* gene.

**応用分野:** MicroRNA and CDK-mediated phosphorylation and Cdc6 removal in cardiomyocyte hypertrophy

\*Literature published using this strain should indicate: *Ctnnb1*-Flox mice (Cat. NO. NM-CKO-200154) were purchased from Shanghai Model Organisms Center, Inc..

## 病気の予測

Autism Spectrum Disorder	表現型	<a href="#">MGI:5812797</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Pvalb-cre mice.
	参考文献	Dong F, Jiang J, McSweeney C, Zou D, Liu L, Mao Y, Deletion of CTNNB1 in inhibitory circuitry contributes to autism-associated behavioral defects. Hum Mol Genet. 2016 Jul 1;25(13):2738-2751

<b>Ovarian Cancer</b>	<b>表現型</b>	<a href="#">MGI:5432226</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Pten-Flox(NM-CKO-18004) and CYP19A1-cre mice.
	<b>参考文献</b>	Richards JS, Fan HY, Liu Z, Tsoi M, Lague MN, Boyer A, Boerboom D, Either Kras activation or Pten loss similarly enhance the dominant-stable CTNNB1-induced genetic program to promote granulosa cell tumor development in the ovary and testis. Oncogene. 2012 Mar 22;31(12):1504-20
<b>Testicular Granulosa Cell Tumor</b>	<b>表現型</b>	<a href="#">MGI:4941746</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Pten-Flox(NM-CKO-18004) and Amhr2-Cre mice.
	<b>参考文献</b>	Boyer A, Paquet M, Lague MN, Hermo L, Boerboom D, Dysregulation of WNT/CTNNB1 and PI3K/AKT signaling in testicular stromal cells causes granulosa cell tumor of the testis. Carcinogenesis. 2009 May;30(5):869-78
<b>Prostate Cancer</b>	<b>表現型</b>	<a href="#">MGI:3836579</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Pbsn-cre mice.
	<b>参考文献</b>	Pearson HB, Pheese TJ, Clarke AR, K-ras and Wnt signaling synergize to accelerate prostate tumorigenesis in the mouse. Cancer Res. 2009 Jan 1;69(1):94-101
<b>Urinary Bladder Cancer</b>	<b>表現型</b>	<a href="#">MGI:5790500</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Kras-LSL-G12D(NM-KI-190003) and Upk2-cre mice.
	<b>参考文献</b>	Ahmad I, Patel R, Liu Y, Singh LB, Taketo MM, Wu XR, Leung HY, Sansom OJ, Ras mutation cooperates with beta-catenin activation to drive bladder tumourigenesis. Cell Death Dis. 2011;2:e124

<b>Ovarian Cancer</b>	<b>表現型</b>	<a href="#">MGI:5432224</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Kras-LSL-G12D(NM-KI-190003) and CYP19A1-cre mice.
	<b>参考文献</b>	Richards JS, Fan HY, Liu Z, Tsoi M, Lague MN, Boyer A, Boerboom D, Either Kras activation or Pten loss similarly enhance the dominant-stable CTNNB1-induced genetic program to promote granulosa cell tumor development in the ovary and testis. Oncogene. 2012 Mar 22;31(12):1504-20
<b>ovarian cancer</b>	<b>表現型</b>	<a href="#">MGI:5432231</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Kras-LSL-G12D(NM-KI-190003) and Amhr2-Cre mice.
	<b>参考文献</b>	Richards JS, Fan HY, Liu Z, Tsoi M, Lague MN, Boyer A, Boerboom D, Either Kras activation or Pten loss similarly enhance the dominant-stable CTNNB1-induced genetic program to promote granulosa cell tumor development in the ovary and testis. Oncogene. 2012 Mar 22;31(12):1504-20
<b>Lung Cancer</b>	<b>表現型</b>	<a href="#">MGI:5141741</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Fgfr3-Flox(NM-CKO-2101148) and Upk2-cre mice.
	<b>参考文献</b>	Ahmad I, Singh LB, Foth M, Morris CA, Taketo MM, Wu XR, Leung HY, Sansom OJ, Iwata T, K-Ras and {beta}-catenin mutations cooperate with Fgfr3 mutations in mice to promote tumorigenesis in the skin and lung, but not in the bladder. Dis Model Mech. 2011 Jul-Aug;4(4):548-55
<b>Ovarian Cancer</b>	<b>表現型</b>	<a href="#">MGI:5432223</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with CYP19A1-cre mice.
	<b>参考文献</b>	Richards JS, Fan HY, Liu Z, Tsoi M, Lague MN, Boyer A, Boerboom D, Either Kras activation or Pten loss similarly enhance the dominant-stable CTNNB1-induced genetic program to promote granulosa cell tumor development in the ovary and testis. Oncogene. 2012 Mar 22;31(12):1504-20

<b>ovarian cancer</b>	<b>表現型</b>	<a href="#">MGI:5432232</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Ctnnb1-Flox(NM-CKO-200154) and Amhr2-Cre mice.
	<b>参考文献</b>	Richards JS, Fan HY, Liu Z, Tsoi M, Lague MN, Boyer A, Boerboom D, Either Kras activation or Pten loss similarly enhance the dominant-stable CTNNB1-induced genetic program to promote granulosa cell tumor development in the ovary and testis. Oncogene. 2012 Mar 22;31(12):1504-20
<b>Otitis Media</b>	<b>表現型</b>	<a href="#">MGI:3706580</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with CMV-cre mice.
	<b>参考文献</b>	Schmidt-Ullrich R, Aebischer T, Hulsken J, Birchmeier W, Klemm U, Scheidereit C, Requirement of NF-kappaB/Rel for the development of hair follicles and other epidermal appendices. Development. 2001 Oct;128(19):3843-53
<b>Melanoma</b>	<b>表現型</b>	<a href="#">MGI:4418449</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Cdkn2a-Flox(2)(NM-CKO-200151), Pten-Flox(NM-CKO-18004) and Tyr-cre/ERT2 mice.
	<b>参考文献</b>	Held MA, Curley DP, Dankort D, McMahon M, Muthusamy V, Bosenberg MW, Characterization of melanoma cells capable of propagating tumors from a single cell. Cancer Res. 2010 Jan 1;70(1):388-97
<b>Urinary Bladder Cancer</b>	<b>表現型</b>	<a href="#">MGI:5790498</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Cdkn1a-Flox(NM-CKO-200033) and Upk2-cre mice.
	<b>参考文献</b>	Ahmad I, Patel R, Liu Y, Singh LB, Taketo MM, Wu XR, Leung HY, Sansom OJ, Ras mutation cooperates with beta-catenin activation to drive bladder tumourigenesis. Cell Death Dis. 2011;2:e124

<b>Salivary Gland Carcinoma</b>	<b>表現型</b>	<a href="#">MGI:5508218</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Bmpr1a-Flox(NM-CKO-2100038) and KRT14-cre mice.
	<b>参考文献</b>	Wend P, Fang L, Zhu Q, Schipper JH, Loddenkemper C, Kosel F, Brinkmann V, Eckert K, Hindersin S, Holland JD, Lehr S, Kahn M, Ziebold U, Birchmeier W, Wnt/beta-catenin signalling induces MLL to create epigenetic changes in salivary gland tumours. EMBO J. 2013 Jul 17;32(14):1977-89
<b>Ovarian Cancer</b>	<b>表現型</b>	<a href="#">MGI:5432228</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Amhr2-Cre mice.
	<b>参考文献</b>	Richards JS, Fan HY, Liu Z, Tsoi M, Lague MN, Boyer A, Boerboom D, Either Kras activation or Pten loss similarly enhance the dominant-stable CTNNB1-induced genetic program to promote granulosa cell tumor development in the ovary and testis. Oncogene. 2012 Mar 22;31(12):1504-20

### 表現型データ

No data