

# Cdkn2a-Flox(p19-Flox)

系統名	C57BL/6Smoc- <i>Cdkn2a</i> <sup>em1(flox)Smoc</sup>
SMOC番号	NM-CKO-200151
維持形態	Sperm cryopreservation

## 遺伝子の概要

Gene Symbol Cdkn2a	Synonyms	Arf; p16; MTS1; Pctr1; p19ARF; p16INK4a; p19; ARF-INK4a; INK4a-ARF; Ink4a/Arf; p16(INK4a)
	NCBI ID	<a href="#">12578</a>
	MGI ID	<a href="#">104738</a>
	Ensembl ID	<a href="#">ENSMUSG00000044303</a>
	Human Ortholog	CDKN2A

## 説明

These mice carry loxP sites flanking exon 1 of *Cdkn2a*-p19ARF transcript.

**応用分野:** Research on protein metabolism and ERK signal transduction

\*Literature published using this strain should indicate: *Cdkn2a*-Flox(p19-Flox) mice (Cat. NO. NM-CKO-200151) were purchased from Shanghai Model Organisms Center, Inc..

## 病気の予測

Melanoma	表現型	<a href="#">MGI:5603215</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Tyr-cre/ERT mice.
	参考文献	Huijbers IJ, Krimpenfort P, Chomez P, van der Valk MA, Song JY, Inderberg-Suso EM, Schmitt-Verhulst AM, Berns A, Van den Eynde BJ, An inducible mouse model of melanoma expressing a defined tumor antigen. <i>Cancer Res.</i> 2006 Mar 15;66(6):3278-86

melanoma	表現型	<a href="#">MGI:4418448</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Pten-Flox(NM-CKO-18004) and Tyr-cre/ERT2 mice.
	参考文献	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
Alveolar Rhabdomyosarcoma	表現型	<a href="#">MGI:3844659</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Pax3-Flox(NM-CKO-2101872) and Myf6-Cre mice.
	参考文献	Keller C, Arenkiel BR, Coffin CM, El-Bardeesy N, DePinho RA, Capecchi MR, Alveolar rhabdomyosarcomas in conditional Pax3:Fkhr mice: cooperativity of Ink4a/ARF and Trp53 loss of function. Genes Dev. 2004 Dec 1;18(21):2614-26
Skin Melanoma	表現型	<a href="#">MGI:5752239</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Nras-Flox(NM-CKO-2100519), Stk11-Flox(2)(NM-CKO-200251) and Tyr-cre/ERT2 mice.
	参考文献	Burd CE, Liu W, Huynh MV, Waqas MA, Gillahan JE, Clark KS, Fu K, Martin BL, Jeck WR, Souroullas GP, Darr DB, Zedek DC, Miley MJ, Baguley BC, Campbell SL, Sharpless NE, Mutation-specific RAS oncogenicity explains NRAS codon 61 selection in melanoma. Cancer Discov. 2014 Dec;4(12):1418-29
skin melanoma	表現型	<a href="#">MGI:5752235</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Nras-Flox(NM-CKO-2100519) and Tyr-cre/ERT2 mice.
	参考文献	Burd CE, Liu W, Huynh MV, Waqas MA, Gillahan JE, Clark KS, Fu K, Martin BL, Jeck WR, Souroullas GP, Darr DB, Zedek DC, Miley MJ, Baguley BC, Campbell SL, Sharpless NE, Mutation-specific RAS oncogenicity explains NRAS codon 61 selection in melanoma. Cancer Discov. 2014 Dec;4(12):1418-29

<b>Sarcoma</b>	<b>表現型</b>	<a href="#">MGI:5792147</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Nf1-Flox(NM-CKO-200018) and Ad-Cre mice.
	<b>参考文献</b>	Dodd RD, Mito JK, Eward WC, Chitalia R, Sachdeva M, Ma Y, Barretina J, Dodd L, Kirsch DG, NF1 deletion generates multiple subtypes of soft-tissue sarcoma that respond to MEK inhibition. Mol Cancer Ther. 2013 Sep;12(9):1906-17
<b>Pancreatic Ductal Adenocarcinoma</b>	<b>表現型</b>	<a href="#">MGI:5308951</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Kras-LSL-G12D(NM-KI-190003), P53-Flox(2)(NM-CKO-190067) and Pdx1-cre mice.
	<b>参考文献</b>	Bardeesy N, Aguirre AJ, Chu GC, Cheng KH, Lopez LV, Hezel AF, Feng B, Brennan C, Weissleder R, Mahmood U, Hanahan D, Redston MS, Chin L, Depinho RA, Both p16(Ink4a) and the p19(Arf)-p53 pathway constrain progression of pancreatic adenocarcinoma in the mouse. Proc Natl Acad Sci U S A. 2006 Apr 11;103(15):5947-52
<b>Pancreatic Carcinoma</b>	<b>表現型</b>	<a href="#">MGI:5441554</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Kras-LSL-G12D(NM-KI-190003) and Pdx1-cre mice.
	<b>参考文献</b>	Singh M, Couto SS, Forrest WF, Lima A, Cheng JH, Molina R, Long JE, Hamilton P, McNutt A, Kasman I, Nannini MA, Reslan HB, Cao TC, Ho CC, Barck KH, Carano RA, Foreman O, Eastham-Anderson J, Jubb AM, Ferrara N, Johnson L, Anti-VEGF antibody therapy does not promote metastasis in genetically engineered mouse tumour models. J Pathol. 2012 Aug;227(4):417-30
<b>Pancreatic Ductal Adenocarcinoma</b>	<b>表現型</b>	<a href="#">MGI:2687217</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Kras-LSL-G12D(NM-KI-190003) and Pdx1-cre mice.
	<b>参考文献</b>	Aguirre AJ, Bardeesy N, Sinha M, Lopez L, Tuveson DA, Horner J, Redston MS, DePinho RA, Activated Kras and Ink4a/Arf deficiency cooperate to produce metastatic pancreatic ductal adenocarcinoma. Genes Dev. 2003 Dec 15;17(24):3112-26

<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 Ctnnb1-Flox(NM-CKO-200154), 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

## 表現型データ

No data