

# Stk11-Frox

系統名	C57BL/6Smoc- <i>Stk11</i> <sup>em1(frox)Smoc</sup>
SMOC番号	NM-CKO-200251
維持形態	Embryo cryopreservation

## 遺伝子の概要

Gene Symbol Stk11	Synonyms	Lkb1; Par-4; R75140; AA408040
	NCBI ID	<a href="#">20869</a>
	MGI ID	<a href="#">1341870</a>
	Ensembl ID	<a href="#">ENSMUSG00000003068</a>
	Human Ortholog	STK11

## 説明

These mice carry rox sites flanking exon3-6 of *Stk11* gene. When crossed with a Dre recombinase-expressing strain, this strain is useful in eliminating tissue-specific conditional expression of *Stk11* gene.

\*Literature published using this strain should indicate: *Stk11*-Frox mice (Cat. NO. NM-CKO-200251) were purchased from Shanghai Model Organisms Center, Inc..

## 病気の予測

Endometrial Cancer	表現型	<a href="#">MGI:4438263</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with <i>Sprr2f-cre</i> mice.
	参考文献	Contreras CM, Akbay EA, Gallardo TD, Haynie JM, Sharma S, Tagao O, Bardeesy N, Takahashi M, Settleman J, Wong KK, Castrillon DH, Lkb1 inactivation is sufficient to drive endometrial cancers that are aggressive yet highly responsive to mTOR inhibitor monotherapy. <i>Dis Model Mech.</i> 2010 Mar-Apr;3(3-4):181-93

<b>Urinary Bladder Cancer</b>	<b>表現型</b>	<a href="#">MGI:5789953</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Pten-Flox(NM-CKO-18004) and Cyp1a1-cre/ERT mice.
	<b>参考文献</b>	Shorning BY, Griffiths D, Clarke AR, Lkb1 and Pten synergise to suppress mTOR-mediated tumorigenesis and epithelial-mesenchymal transition in the mouse bladder. PLoS One. 2011;6(1):e16209
<b>Peutz-Jeghers Syndrome</b>	<b>表現型</b>	<a href="#">MGI:3814590</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Pdx1-cre mice.
	<b>参考文献</b>	Hezel AF, Gurumurthy S, Granot Z, Swisa A, Chu GC, Bailey G, Dor Y, Bardeesy N, Depinho RA, Pancreatic LKB1 deletion leads to acinar polarity defects and cystic neoplasms. Mol Cell Biol. 2008 Apr;28(7):2414-25
<b>Peutz-Jeghers syndrome</b>	<b>表現型</b>	<a href="#">MGI:3814722</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with KRT14-cre mice.
	<b>参考文献</b>	Gurumurthy S, Hezel AF, Berger JH, Bosenberg MW, Bardeesy N, LKB1 deficiency sensitizes mice to carcinogen-induced tumorigenesis. Cancer Res. 2008 Jan 1;68(1):55-63
<b>Skin Melanoma</b>	<b>表現型</b>	<a href="#">MGI:5752239</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Cdkn2a-Flox(2)(NM-CKO-200151), Nras-Flox(NM-CKO-2100519) and Tyr-cre/ERT2 mice.
	<b>参考文献</b>	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>Peutz-Jeghers Syndrome</b>	<b>表現型</b>	<a href="#">MGI:5440238</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>	Tanwar PS, Kaneko-Tarui T, Zhang L, Teixeira JM, Altered LKB1/AMPK/TSC1/TSC2/mTOR signaling causes disruption of Sertoli cell polarity and spermatogenesis. Hum Mol Genet. 2012 Oct 15;21(20):4394-405

### 表現型データ

No data