

# Cdkn1a-KO

<b>Nomenclature</b>	C57BL/6Smoc- <i>Cdkn1a</i> <sup>em1Smoc</sup>
<b>Cat. NO.</b>	NM-KO-190774
<b>Strain State</b>	Sperm cryopreservation

## Gene Summary

<b>Gene Symbol</b> Cdkn1a	<b>Synonyms</b>	P21; CDKI; CIP1; SDI1; Waf1; mda6; CAP20; Cdkn1; p21WAF; p21Cip1
	<b>NCBI ID</b>	<a href="#">12575</a>
	<b>MGI ID</b>	<a href="#">104556</a>
	<b>Ensembl ID</b>	<a href="#">ENSMUSG00000023067</a>
	<b>Human Ortholog</b>	CDKN1A

## Model Description

Exon 2-3 of Cdkn1a gene was deleted to generate Cdkn1a knockout mice.

**Research Application:** Mice that lack this gene have the ability to regenerate damaged or missing tissue.

\*Literature published using this strain should indicate: Cdkn1a-KO mice (Cat. NO. NM-KO-190774) were purchased from Shanghai Model Organisms Center, Inc..

## Disease Connection

<b>Systemic Lupus Erythematosus</b>	<b>Phenotype(s)</b>	<a href="#">MGI:3618363</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Gadd45a-KO(NM-KO-200590) mice.
	<b>Reference(s)</b>	Salvador JM, Hollander MC, Nguyen AT, Kopp JB, Barisoni L, Moore JK, Ashwell JD, Fornace AJ, Mice Lacking the p53-Effector Gene Gadd45a Develop a Lupus-Like Syndrome. <i>Immunity</i> . 2002 Apr;16(4):499-508

<b>Hepatocellular Carcinoma</b>	<b>Phenotype(s)</b>	<a href="#">MGI:3046808</a>
	<b>Reference(s)</b>	Wang Y, Cui F, Lv Y, Li C, Xu X, Deng C, Wang D, Sun Y, Hu G, Lang Z, Huang C, Yang X, HBsAg and HBx knocked into the p21 locus causes hepatocellular carcinoma in mice. Hepatology. 2004 Feb;39(2):318-24
<b>Systemic Lupus Erythematosus</b>	<b>Phenotype(s)</b>	<a href="#">MGI:3615496</a>
	<b>Reference(s)</b>	Salvador JM, Hollander MC, Nguyen AT, Kopp JB, Barisoni L, Moore JK, Ashwell JD, Fornace AJ, Mice Lacking the p53-Effector Gene Gadd45a Develop a Lupus-Like Syndrome. Immunity. 2002 Apr;16(4):499-508

## Validation Data

No data