

Cdkn1a-KO

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

Gene Summary

Gene Symbol Cdkn1a	Synonyms	P21; CDKI; CIP1; SDI1; Waf1; mda6; CAP20; Cdkn1; p21WAF; p21Cip1
	NCBI ID	12575
	MGI ID	104556
	Ensembl ID	ENSMUSG00000023067
	Human Ortholog	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

Systemic Lupus Erythematosus	Phenotype(s)	MGI:3618363 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Gadd45a-KO(NM-KO-200590) mice.
	Reference(s)	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

Hepatocellular Carcinoma	Phenotype(s)	MGI:3046808
	Reference(s)	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
Systemic Lupus Erythematosus	Phenotype(s)	MGI:3615496
	Reference(s)	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