

Cdkal1-Flox

Nomenclature	C57BL/6Smoc- <i>Cdkal1</i> ^{em1(flox)Smoc}
Cat. NO.	NM-CKO-234794
Strain State	Developing

Gene Summary

Gene Symbol Cdkal1	Synonyms	1190005B03Rik; 6620401C13Rik
	NCBI ID	68916
	MGI ID	1921765
	Ensembl ID	ENSMUSG000000006191
	Human Ortholog	CDKAL1

Model Description

These strains carry loxP sites flanking exon 5 of *Cdkal1* gene. When crossed with a Cre recombinase-expressing strain, this strain is useful in eliminating tissue-specific conditional expression of *Cdkal1* gene.

*Literature published using this strain should indicate: *Cdkal1*-Flox mice (Cat. NO. NM-CKO-234794) were purchased from Shanghai Model Organisms Center, Inc..

Disease Connection

Type 2 Diabetes Mellitus	Phenotype(s)	MGI:5301577 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with <i>Ins2</i> -cre mice.
	Reference(s)	Wei FY, Suzuki T, Watanabe S, Kimura S, Kaitsuka T, Fujimura A, Matsui H, Atta M, Michiue H, Fontecave M, Yamagata K, Suzuki T, Tomizawa K, Deficit of tRNA(Lys) modification by <i>Cdkal1</i> causes the development of type 2 diabetes in mice. J Clin Invest. 2011 Sep 1;121(9):3598-608

Validation Data

No data
