

Lepr-KO

Nomenclature	C57BL/6Smoc- <i>Lepr</i> ^{em1Smoc}
Cat. NO.	NM-KO-190663
Strain State	Sperm cryopreservation

Gene Summary

Gene Symbol Lepr	Synonyms	db; Obr; obl; Leprb; Modb1; LEPROT; OB-RGRP; diabetes; obese-like
	NCBI ID	16847
	MGI ID	104993
	Ensembl ID	ENSMUSG00000057722
	Human Ortholog	LEPR

Model Description

Exon 5 of Lepr gene was deleted to generate Lepr knockout mice.

Research Application: obesity

*Literature published using this strain should indicate: Lepr-KO mice (Cat. NO. NM-KO-190663) were purchased from Shanghai Model Organisms Center, Inc..

Disease Connection

Type 2 Diabetes Mellitus	Phenotype(s)	MGI:5620891
	Reference(s)	Lee Y, Berglund ED, Yu X, Wang MY, Evans MR, Scherer PE, Holland WL, Charron MJ, Roth MG, Unger RH, Hyperglycemia in rodent models of type 2 diabetes requires insulin-resistant alpha cells. Proc Natl Acad Sci U S A. 2014 Sep 9;111(36):13217-22

Obesity	Phenotype(s)	MGI:3511748
	Reference(s)	McMinn JE, Liu SM, Dragatsis I, Dietrich P, Ludwig T, Eiden S, Chua SC Jr, An allelic series for the leptin receptor gene generated by CRE and FLP recombinase. Mamm Genome. 2004 Sep;15(9):677-85

Validation Data

No data