



B 6 . 1 2 9 (Sicg) ^{mt} ^{Auw} / J

Stock No: 031201 | Sirt3^{L2}

Congenic, Targeted Mutation



AVAILABLE

PLACE ORDER

Live mice available in varying quantities. Ask Customer Service for details.

Overview

Also Known As: Sirt3^{L2}

Sirt3^{L2/L2} mice possess *loxP* sites flanking exons 2-3 of the sirtuin 3 (*Sirt3*) gene. These floxed mice are useful for tissue specific deletion of *Sirt3* when studying the role of fatty acid oxidation in diabetes, cardiovascular disease, steatosis, fasting, cold exposure and life span.

Donating Investigator

Johan Auwerx, École polytechnique fédérale de Lausanne

READ MORE +

GENETIC OVERVIEW

Genetic Background Generation
N10+pN2F4
(2019-06-21 00:00:00)

Sirt3^{tm1.1Auw}

Allele Type	Gene Symbol	Gene Name
Targeted (Conditional ready (e.g. floxed), No functional change)	<i>Sirt3</i>	sirtuin 3

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools
Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$255.00 Domestic price for female 4-week

VIEW PRICE LIST

Details

Detailed Description

Sirt3^{L2/L2} mice possess *loxP* sites flanking exons 2-3 of the sirtuin 3 (*Sirt3*) gene. Sirt3 is an NAD⁺-dependent deacetylases involved in mitochondrial protein acetylation. It is localized predominantly in the mitochondria of metabolic tissues like liver, brown adipose tissue (BAT), heart, skeletal muscle and kidney. Mice that are homozygous for this allele are viable and fertile. When bred to mice that express tissue-specific Cre recombinase, resulting offspring will have exons 2-3 deleted in the *cre*-expressing tissues.

Development

Control Suggestions

Selected References

– Genetics

+ [Sirt3^{tm1.1Auw}](#)

– Disease/Phenotype

+ Disease Terms

+ Research Areas By Genotype

+ Mammalian Phenotype Terms by Genotype

+ References

– Technical Support

C H A T O  F L I N E

C O N T A C T T E C H N I C A L S U P P O R T

Genotyping Protocols

Standard PCR: [Sirt3^{tm1.1Auw}](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, homozygous mice may be bred together.

[Additional Breeding and Husbandry Support](#)

Mating System

Homozygote x Homozygote

Citation

When using the [Sirt3^{L2}](#) mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #031201 in your

Materials and Methods section.

[Facility Barrier Level Descriptions](#)

 [AX18 \(Maximum\)](#)

– Pricing & Availability



Live mice available in varying quantities. Ask Customer Service for details.

Available

Domestic **International**

Pricing effective for USA, Canada and Mexico shipping destinations

Live Mouse

AGE	SEX	GENOTYPE	PRICE
4 weeks	Female	Homozygous for Sirt3 ^{tm1.1Auw}	\$255.00
	Male	Homozygous for Sirt3 ^{tm1.1Auw}	\$255.00
5 weeks	Female	Homozygous for Sirt3 ^{tm1.1Auw}	\$255.00
	Male	Homozygous for Sirt3 ^{tm1.1Auw}	\$255.00
6 weeks	Female	Homozygous for Sirt3 ^{tm1.1Auw}	\$255.00
	Male	Homozygous for Sirt3 ^{tm1.1Auw}	\$255.00
7 weeks	Female	Homozygous for Sirt3 ^{tm1.1Auw}	\$255.00
	Male	Homozygous for Sirt3 ^{tm1.1Auw}	\$255.00
8 weeks	Female	Homozygous for Sirt3 ^{tm1.1Auw}	\$255.00
	Male	Homozygous for Sirt3 ^{tm1.1Auw}	\$255.00
9 weeks	Female	Homozygous for Sirt3 ^{tm1.1Auw}	\$255.00
	Male	Homozygous for Sirt3 ^{tm1.1Auw}	\$255.00
10 weeks	Female	Homozygous for Sirt3 ^{tm1.1Auw}	\$255.00
	Male	Homozygous for Sirt3 ^{tm1.1Auw}	\$255.00
11 weeks	Female	Homozygous for Sirt3 ^{tm1.1Auw}	\$255.00
	Male	Homozygous for Sirt3 ^{tm1.1Auw}	\$255.00
12 weeks	Female	Homozygous for Sirt3 ^{tm1.1Auw}	\$255.00
	Male	Homozygous for Sirt3 ^{tm1.1Auw}	\$255.00

Related Products and Services

Frozen Mouse Embryo	B6.129(Cg)-Sirt3 ^{tm1.1Auw} /J	\$2595.00
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