B6;129-Sirt1tm1Ygu/J

Stock No: 008041 | SirT1<sup>co</sup>  

Targeted Mutation

CRYD RECOVERY

PLACE ORDER

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

Overview

Also Known As: SirT1<sup>co</sup>

These SirT1<sup>co/co</sup> mice may be useful in generating conditional mutations for studying the role of estrogen, insulin growth factor-1 (IGF-1), and transcription factors (including NF-kappaB) in mammary gland development, breast cancer, apoptosis, and metabolic diseases.

Donating Investigator

Dr. Yansong Gu, University of Washington School of Med.
GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td><strong>Sirt1^{tm1}Ygu</strong></td>
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**Allele Type**
Targeted (Conditional ready (e.g. floxed), No functional change)

**Gene Symbol**
Sirt1

**Gene Name**
sirtuin 1

RESEARCH APPLICATIONS

- Cancer Research
- Research Tools
- Diabetes and Obesity Research
- Cell Biology Research
- Endocrine Deficiency Research

BASE PRICE
Starting at:

- $2,854.50 Domestic price Cryo Recovery

Details

**Detailed Description**

Mice homozygous for this targeted allele (Sirt1^{co/co}) are viable and fertile. A loxP-flanked neomycin cassette just upstream of exon 4 and a third loxP site downstream of exon 4 were inserted to create this targeted mutant Sirt1 allele. The floxed mutation does not affect SIRT1 protein expression in MEFs or mammary gland tissue in homozygotes. When bred to mice that express Cre recombinase, the resulting offspring have exon 4 (encoding an evolutionarily conserved Sir2 motif) deleted in cre-expressing tissue(s); (the donating investigator reports only one recombination event: complete removal of the neomycin cassette and exon 4, leaving a single loxP).

These Sirt1^{co/co} mice may be useful in generating conditional mutants for studying transcriptional regulation and the role of estrogen, insulin growth factor-1 (IGF-1), and transcription factors (including NF-kappaB) in mammary gland development, mammary cancer, apoptosis, and metabolic diseases.

**Development**
Genotyping Protocols
Standard PCR: Sirt1<sup>tm1Ygu</sup>
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 Sirt1<sup>co</sup> mouse strain in a publication, please cite the originating article(s) and include JAX stock #008041 in your Materials and Methods section.

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200

Pricing & Availability
Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

<table>
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<tr>
<th>Domestic</th>
<th>International</th>
<th>Cryorecovery - Domestic Pricing</th>
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<tbody>
<tr>
<td>SERVICE</td>
<td>GENOTYPE</td>
<td>PRICE</td>
</tr>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous for Sirt1&lt;tm1Ygu&gt;</td>
<td>$2,854.50</td>
</tr>
</tbody>
</table>

We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryorecovery to establish a Dedicated Supply for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

<table>
<thead>
<tr>
<th>Related Products and Services</th>
<th>Price</th>
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<tbody>
<tr>
<td>Frozen Mouse Embryo</td>
<td>$2,595.00</td>
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Payment Terms and Conditions
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The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. Therefore, we cannot guarantee a strain’s phenotype will meet all expectations. To ensure that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project.

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