C57BL/6-Chrm1<sup>tm1Stl</sup>/J

Stock No: 006468 | M1-

Coisogenic, Targeted Mutation

REQUEST CRYORECOVERY

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

Also Known As: M1-
These Chrm1 knock-out mice exhibit elevated dopaminergic transmission.

Donating Investigator
Dr. Susumu Tonegawa, Massachusetts Institute of Technology

READ MORE +

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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</table>

Chrm1<sup>tm1Stl</sup>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Targeted (Null/Knockout)</td>
<td>Chrm1</td>
<td>cholinergic receptor, muscarinic 1, CNS</td>
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</tbody>
</table>

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools
Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE
Starting at:

$2,595.00 Domestic price Cryo Recovery
Details

Detailed Description

Homozygotes are viable and fertile with complete absence of the wildtype allele mRNA in forebrain tissues. Mice homozygous for this M1 muscarinic acetylcholine receptor deficiency have elevated dopaminergic transmission in the striatum, significantly increased locomotor activity, increased response to the stimulatory effects of amphetamine. These mutant mice may be useful in neurological studies, including the regulation of dopaminergic transmission by the M1 receptor and M1 dysfunction in psychiatric disorders.

Development

Control Suggestions

Selected References

Genetics

Chrm1\textsuperscript{tm1St}

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

Genotyping Protocols

Standard PCR: Chrm1\textsuperscript{tm1St}

Genotyping resources and troubleshooting

Breeding Considerations

When maintaining a live colony, homozygous mice are bred.

Additional Breeding and Husbandry Support
**Citation**

When citing the VPI mouse strain in a publication, please cite the originating article(s) and include JAX stock #006468 in your Materials and Methods section.

**Facility Barrier Level Descriptions**

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

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**Pricing & Availability**

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

<table>
<thead>
<tr>
<th><strong>Cryorecovery - Domestic Pricing</strong></th>
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<tbody>
<tr>
<td><strong>SERVICE</strong></td>
</tr>
<tr>
<td>Cryo Recovery</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.

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**Related Products and Services**

| Frozen Mouse Embryo | $2,595.00 per straw or vial |

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**Payment Terms and Conditions**

Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

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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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Email: TechTran@jax.org

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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains