B6.129S4-Clock<sup>tm1Rep/J</sup>

Stock No: 010490

- Congenic, Targeted Mutation

**PLACE ORDER**

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

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**Overview**

These Clock (circadian locomotor output cycles kaput), Clock<sup>lox</sup>, mutant mice may be useful in generating conditional mutations for studying circadian rhythm and behavior.

**Donating Investigator**

David R. Weaver, Univ of Massachusetts Medical School
### Genetic Overview

**Clock**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Targeted (Conditional ready (e.g. floxed), No functional change)</td>
<td>Clock</td>
<td>circadian locomotor output cycles kaput</td>
</tr>
</tbody>
</table>

### Research Applications

- Neurobiology Research
- Research Tools

### Base Price

Starting at:

$2,854.50 Domestic price Cryo Recovery

### Details

#### Detailed Description

These mice possess loxP sites on either side of exons 5 and 6 of the targeted gene. Mice that are homozygous for this conditional allele are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. When these mutant mice are bred to mice that express Cre recombinase, resulting offspring will have exons 5 and 6 deleted in the cre-expressing tissue(s). When bred to a strain expressing Cre recombinase in the male germ line (see Stock No. 003328 for example), this mutant mouse strain may be useful in studies of circadian rhythm and behavior.

#### Development

#### Control Suggestions

#### Selected References
Genotyping Protocols
High Resolution Melting: Clock$^{\text{tm1Rep}}$
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, these mice can be bred as homozygotes.
Additional Breeding and Husbandry Support

Citation
When using the B6.129S4-Clock$^{\text{tm1Rep}}$/+ mouse strain in a publication, please cite the originating article(s) and include JAX stock #010470 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.

Pricing effective for USA, Canada and Mexico shipping destinations

Cryorecovery - Domestic Pricing
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.

**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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General Terms and Conditions

**QUESTIONS ABOUT TERMS OF USE**

**Additional Use Restrictions Apply**

Use of MICE by companies or for-profit entities requires a license prior to shipping.

**License Agreement**

Phone: 207-288-6470
Email: TechTran@jax.org

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Related Strains

- All
- By Allele
- By Gene
- By Collection

All Related Strains