B6.129-Mapk4.im1Mel/J

Stock No: 027666 | Erk4

Congenic, Targeted Mutation

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: Erk4

These Erk4 (Mapk4) GFP knockin/knockout mice exhibit depression related behavior in the forced swim test and may be useful for studying the MAP kinases and behavior.

Donating Investigator

Sylvain Meloche, Université de Montréal
GENETIC OVERVIEW

Mapk4tm1Melo

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Targeted (Reporter, Null/Knockout)</td>
<td>Mapk4</td>
<td>mitogen-activated protein kinase 4</td>
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</table>

RESEARCH APPLICATIONS

Neurobiology Research
Research Tools

BASE PRICE

Starting at:

$2,595.00 Domestic price Cryo Recovery

Details

Detailed Description

Mapk4 (Erk4) knockin/knockout mice contain a GFP/neomycin cassette in place of exon 2 of the mitogen-activated protein kinase 4 (Mapk4), abolishing gene function. MAPK4, a paralog of MAPK6, is a member of the mitogen-activated protein kinases also known as extracellular signal-regulated kinases (ERKs) that are activated in response to extracellular stimuli. Homozygous mice are viable and fertile. Behavioral testing indicates an increased immobility time in the forced-swim test, an indication of depression-related behavior. This strain may be useful for studying the MAP kinases and behavior.

Development

Expression Data

Selected References
Genotyping Protocols
MELT: Mapk4<sup>5m1Melo</sup>
Genotyping resources and troubleshooting

Breeding Considerations
While maintaining a live colony, these mice are bred as heterozygotes.
Additional Breeding and Husbandry Support

Citation
When using the Fk5<sup>4</sup> mouse strain in a publication, please cite the originating article(s) and include JAX stock #027666 in your Materials and Methods section.
Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, <sup>G200</sup>

Pricing & Availability

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

Domestic | International
Pricing effective for USA, Canada and Mexico shipping destinations

Cryorecovery - Domestic Pricing
<table>
<thead>
<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous for Mapk4&lt;tm1Melo&gt;</td>
<td>$2,595.00</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.

### Related Products and Services

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

### 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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### Terms Of Use

**Terms of Use**

[General Terms and Conditions](#)

QUESTIONS ABOUT TERMS OF USE

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

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**Related Strains**

- All
- By Allele
- By Gene
- By Collection

All Related Strains