B6.129-Mapk6<sup>tm1Melo</sup>/J

Stock No: 027186 | Erk3<sup>−/−</sup>

Congenic, Targeted Mutation

CRDY RECOVERY

PLACE ORDER

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

Also Known As: Erk3<sup>−/−</sup>

These Mapk6 (Erk3) lacZ knockin/knockout mice exhibit homozygous neonatal lethality characterized by delayed lung maturation, pulmonary hypoplasia, and intrauterine growth restriction. They may be useful for studygin fetal growth, lung maturation, neuromuscular phenotypes and immune function.

Donating Investigator

Sylvain Meloche, Université de Montréal

READ MORE +

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mapk6&lt;sup&gt;tm1Melo&lt;/sup&gt;</td>
<td></td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Targeted (Reporter, Null/Knockout)</td>
<td>Mapk6</td>
<td>mitogen-activated protein kinase 6</td>
</tr>
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</table>

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research
Developmental Biology Research
Internal/Organ Research
Research Tools

VIEW ALL RESEARCH APPLICATIONS
Details

Detailed Description

Mapk6 (Erk3) knockin/knockout mice contain a lacZ neomycin cassette in place of exons 2-4 of the mitogen-activated protein kinase 6 (Mapk6), abolishing gene function. Beta-galactosidase activity is detected in a range of developing tissues in E15.5 embryos. 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 neonates die within 24 hours; 40% within 15 minutes due to acute respiratory failure. Pups exhibit delayed lung maturation, pulmonary hypoplasia, impaired saccular development, atelectasis, defective type II pulmonary differentiation, and neuromuscular defects. Intrauterine growth is restricted resulting in reduced fetal lung, heart and liver weights. Mapk6 deficiency also results in defective thymocyte development. This strain may be useful for studying fetal growth, lung maturation, neuromuscular phenotypes and immune function.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Mapk6<sup>Cre</sup>Me<sub>lo</sub>

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support
Genotyping Protocols
MELT: Mapk6<sup>tm1Melo</sup>
Genotyping resources and troubleshooting

Breeding Considerations
While maintaining a live colony, these mice are bred as heterozygotes. Mice homozygous for the mutation are not viable.

Additional Breeding and Husbandry Support

Citation
When using the FgαS mouse strain in a publication, please cite the originating article(s) and include JAX stock #027186 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

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>Cryo Recovery</th>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domestic</td>
<td></td>
<td>Heterozygous or wildtype for Mapk6&lt;sup&gt;tm1Melo&lt;/sup&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.

Cryo recovery 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
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The Jackson Laboratory’s Genotype Promise
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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All

By Allele

By Gene

By Collection

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