Overview

These mice possess loxP sites flanking exons 4-14 of the E4F transcription factor 1 (E4f1) gene and have applications in studies related to cell cycle regulation and cell proliferation and survival.

Donating Investigator
Laurent Le Cam, INSERM
GENETIC OVERVIEW

<table>
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<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tr>
<td>E4f1&lt;sup&gt;tm1.1Lca&lt;/sup&gt;</td>
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**Allele Type**
Targeted (Conditional ready (e.g. floxed), No functional change)

**Gene Symbol**
E4f1

**Gene Name**
E4F transcription factor 1

RESEARCH APPLICATIONS
Research Tools

BASE PRICE
Starting at:

$2,595.00 Domestic price Cryo Recovery

Details

**Detailed Description**
These mice possess loxP sites on either side of exons 4 through 14, of the targeted gene. E4f1 is a multifunctional transcription factor with widespread expression and is involved in signaling pathways that regulate cell proliferation and survival, and tumorigenesis. Mice that are homozygous for this 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 4 through 14 deleted in the cre expressing tissue(s).

Development

Control Suggestions

Selected References
Genotyping Protocols
Melt Curve Analysis: E4f1<sup>tm1.Lica</sup>
Standard PCR: E4f1<sup>tm1.Lica</sup>
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-E4f1<sup>tm1.Lica</sup>/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #017568 in your Materials and Methods section.

Animal Health Reports
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.
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<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tr>
<td>Cryo Recovery</td>
<td>Heterozygous for E4f1&lt;tm1.1Lica&gt;</td>
<td>$2,595.00</td>
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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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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.

**FAQ**

**Terms Of Use**

**Terms of Use**

**General Terms and Conditions**

**Contact Information**

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

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**Related Strains**

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All Related Strains
ELLSWORTH FACILITY OFFICIALLY OPEN AND OPERATIONAL
Shipments have begun at our new facility, allowing increased access to JAX mouse models.

Leading the search for
TOMORROW'S CURES

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