B6.129S1(Cg)-Ascl3tm1.1(EGFP/cre)Dwi/J

Stock No: 021794

Congenic Targeted Mutation

CRYO RECOVERY

PLACE ORDER

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

In this targeted mutant strain, an EGFP-Cre knock-in ablates expression of the mouse Ascl3 achaete-scute complex homolog 3 (Drosophila) gene. Fluorescent labeling and Cre expression recapitulate endogenous Ascl3 expression, useful in studies of salivary gland development and maintenance.

Donating Investigator

Catherine Ovitt, University of Rochester

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ascl3&lt;sup&gt;tm1.1(EGFP/cre)Ovi&lt;/sup&gt;</td>
<td></td>
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<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Targeted (Recombinase-expressing, Reporter)</td>
<td>Ascl3</td>
<td>achaete-scute family bHLH transcription factor 3</td>
</tr>
</tbody>
</table>

RESEARCH APPLICATIONS

Research Tools

BASE PRICE

Starting at:

$2,595.00 Domestic price Cryo Recovery

Details
Detailed Description

Ascl3 (achaete-scute complex homolog 3 (Drosophila); also known as Sgn1) is a member of the mammalian achaete scute (Mash) gene family of transcription factors which have been implicated in cell fate specification and differentiation. In the mouse salivary gland, expression is restricted to a subset of duct cells which are progenitors of both acinar and ductal cell types and contribute to the maintenance of adult salivary glands. Studies of salivary gland development may enable functional restoration in patients with radiation-induced damage or autoimmune disease.

In this targeted mutant strain, an EGFP-Cre knock-in ablates expression of the mouse Ascl3 gene. Fluorescent labeling and Cre expression recapitulate endogenous Ascl3 expression. Characterization of the homozygous phenotype is ongoing, but heterozygous animals are born at predicted Mendelian frequencies and are indistinguishable in growth and fertility. Mutant mice show no signs of increased morbidity compared to their wild type littermates. Heterozygotes show no change in salivary gland function.

When crossed with a reporter strain carrying a floxed -galactosidase (LacZ) gene under the control of the ubiquitously active Gt(ROSA)26Sor promoter (e.g. Stock No. 003474), non-fluorescent progeny of cells in which Cre has been expressed can be traced through lacZ staining. In these animals, acinar cells of the submandibular, sublingual, and parotid gland stain positive for lacZ, and fluorescent cells are limited to the progenitor cells in the ducts.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Ascl3<sup>tm1.1EGFP/cre+<sup></sup>

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols
MELT: Ascl3<sup>tm1.1EGFP/cre+<sup></sup>
Genotyping resources and troubleshooting
Breeding Considerations
Heterozygotes are viable and fertile.

Additional Breeding and Husbandry Support

Citation
When using the B6.129S1[Ascl3tm1.1EGFP/creOvi/J] mouse strain in a publication, please cite the originating article(s) and include JAX stock #021794 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.

Cryorecovery - Domestic Pricing

<table>
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<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous or Wildtype for Ascl3&lt;tm1.1(EGFP/cre)Ovi&gt;</td>
<td>$2,595.00</td>
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</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

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<th>PRODUCT</th>
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<tr>
<td>Frozen Mouse Embryo</td>
<td>$2,595.00 per straw or vial</td>
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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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Phone: 207-288-6470
Email: TechTran@jax.org

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## Related Strains

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All Related Strains
Leading the search for
TOMORROW'S CURES

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Choose other country or region