Overview

Also Known As: K14-Cre

A congenic version of this strain is available as Stock No. 018964.

The K14-Cre transgene has a human keratin 14 promoter directing expression of Cre recombinase. These K14-Cre transgenic mice are a Cre-tox tool useful for deletion of floxed sequences in the ectoderm and its derivatives (including the skin, dental epithelium, and oral ectoderm).
Donating Investigator
Andrew P McMahon, University of Southern California

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tr>
<td>Tg(KRT14-cre)1Amc</td>
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Allele Type
Transgenic (Recombinase-expressing)

RESEARCH APPLICATIONS
Research Tools
Developmental Biology Research
Cancer Research

BASE PRICE
Starting at:
$2,595.00 Domestic price Cryo Recovery

Details

Detailed Description

Mice hemizygous for the K14-Cre transgene are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. These transgenic mice express Cre recombinase under the control of the human keratin 14 promoter. Cre transcript is detected in the skin. When crossed to a reporter line containing Gt(ROSA)26Sor<sup>tm1Sor</sup>, Beta-galactosidase activity is detected in the oral ectoderm at 11.75 dpc, and at 14.5 dpc activity is detected in the skin and throughout the dental epithelium. This strain represents an effective tool for generating tissue-specific targeted mutants that would be useful to study developmentally critical gene function in the ectoderm and its derivatives.

View cre expression characterization.
Genotyping Protocols
QPCR: Generic Cre Quantitative PCR
Standard PCR: Generic Cre
Standard PCR: Tg(KRT14-cre)1Amc
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining the live colony, homozygous mice may be bred together.
Additional Breeding and Husbandry Support

Mating System
Homozygote x Homozygote

Citation
If you use this strain in a publication, please cite the originating article(s) and include JAX stock #004782 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.

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

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<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tr>
<td>Cryo Recovery</td>
<td>Homozygous for Tg(KRT14-cre)1Amc, 1 pair minimum</td>
<td>$2,595.00</td>
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</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.

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<tr>
<th>Related Products and Services</th>
<th>Price</th>
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<tbody>
<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.

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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Terms of Use

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

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