B6.FVB-Tg(E1la-cre)C5379Lmgd/J

Stock No: 003724 | E2a-Cre

Congenic, Transgenic

PLACE ORDER

Live mice available in varying quantities. Ask Customer Service for details.

Overview
Also Known As: E2a-Cre
EIIa-cre mice carry a cre transgene under the control of the adenovirus EIIa promoter that targets expression of Cre recombinase to the early mouse embryo, and are useful for germ line deletion of loxP-flanked genes.

Donating Investigator
Dr. Heiner Westphal, National Institutes of Health

**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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**Tg(EIIa-cre)C5379Lmgd**

**Allele Type**
Transgenic (Recombinase-expressing)

**RESEARCH APPLICATIONS**
Research Tools
Details

Detailed Description

This line carries a cre transgene under the control of the adenovirus Ella promoter that targets expression of Cre recombinase to the early mouse embryo. Cre expression is thought to occur prior to implantation in the uterine wall. A mosaic pattern of expression is commonly observed. Cre-mediated recombination occurs in a wide range of tissues, including the germ cells that transmit the genetic alteration to progeny. These mice may be useful for breeding to other mice carrying loxP-flanked DNA sequences of interest. This would readily generate progeny in which Cre-mediated excision of the targeted sequences has occurred.

View cre expression characterization on the FVB background.

Genetics

Tg(Ella-cre)C5379Lmgd

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support
Genotyping Protocols
QPCR: Generic Cre Quantitative PCR
Standard PCR: Generic Cre
Genotyping resources and troubleshooting

Dietary Information
LabDiet® 5K52 formulation (6% fat)

Breeding Considerations
When maintaining a live colony, these mice are bred as homozygotes. Homozygotes may have slightly smaller litter sizes compared to hemizygous matings.

Additional Breeding and Husbandry Support

Mating System
Homozygote x Homozygote

Citation
When using the EiiA Cre mouse strain in a publication, please cite the originating article(s) and include JAX stock #003724 in your Materials and Methods section.

Facility Barrier Level Descriptions
Class II (Maximum)

Pricing & Availability
Live mice available in varying quantities. Ask Customer Service for details.

<table>
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<th>AGE</th>
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