Overview

CMV-Cre mice are useful for deletion of loxP-flanked genes in all tissues.

Donating Investigator

IMR Colony, The Jackson Laboratory

GENETIC OVERVIEW

Genetic Background

Generation

N11F9
(2019-06-13 00:00:00)

Tg(CMV-cre)1Cgn

Allele Type

Transgenic (Recombinase-expressing)

RESEARCH APPLICATIONS

Research Tools

BASE PRICE

Starting at:
In this transgenic strain, deletion of loxP-flanked genes occurs in all tissues, including germ cells. The cre gene in this strain is under the transcriptional control of a human cytomegalovirus minimal promoter and is likely to be expressed before implantation during early embryogenesis. It also appears that the cre gene is X-linked since transgene transmission through males is restricted to female offspring.

In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. This is the case for the strain above. It should be noted that the phenotype could vary from that originally described. We will modify the strain description if necessary as published results become available.
Genotyping Protocols
Probe: Generic Cre Probe
QPCR: Generic Cre Quantitative PCR
Standard PCR: Generic Cre
Standard PCR: Generic Cre Melt Curve Analysis
Genotyping resources and troubleshooting

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

Breeding Considerations

When maintaining a live colony, these mice are bred as homozygotes. The cre transgene appears to be X-linked since transgene transmission through males is restricted to female offspring.

Additional Breeding and Husbandry Support
Mating System
Homozygote x Hemizygote

Citation
When using the CMV-Cre mouse strain in a publication, please cite the originating article(s) and include JAX stock #006054 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

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

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