FVB-Tg(GFAP-cre)25Mes/J

Stock No: 004600

Transgenic

PLACE ORDER

2-4 week lead time for up to 4 mice at 4-8 weeks old and age requests are not accepted

Homozygotes for this transgene are not viable. Hemi-zygotes express Cre recombinase under the control of the human glial fibrillary acidic protein promoter (GFAP). When crossed with a strain containing loxP site flanked sequence of interest, Cre-mediated recombination results in tissue-specific deletion of the target, and recombination occurs primarily in the central nervous system, affecting astrocytes, oligodendroglia, ependyma and some neurons. This mutant mouse strain represents an effective tool for generating central nervous system specific-targeted mutants.

Donating Investigator

Dr. Albee Messing, University of Wisconsin-Madison

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GENETIC OVERVIEW

Genetic Background  Generation
N7-TgN31  (2018-04-11 00:00:00)

Tg(GFAP-cre)25Mes

Allele Type
Transgenic (Recombinase-expressing)

VIEW GENETICS

RESEARCH APPLICATIONS
Research Tools
Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE
Details

Detailed Description
Mice hemizygous for the transgenic insert are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. Mice that are homozygous for the transgene are not viable. This transgenic mouse strain expresses Cre recombinase under the control of the human glial fibrillary acidic protein promoter (GFAP). When crossed with a strain containing loxP site flanked sequence of interest, Cre-mediated recombination results in tissue-specific deletion of the target. Recombination occurs primarily in the central nervous system, affecting astrocytes, oligodendroglia, ependyma and some neurons. Expression activity is also present in periportal cells of the liver. Developmental onset of transgene expression occurs in the dorsal and medial regions of the telencephalon by embryonic day 13.5. In adult cerebellum, only astrocytes are immunoreactive for GFAP or Cre recombinase. This mutant mouse strain represents an effective tool for generating central nervous system specific-targeted mutants.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(GFAP-cre)25Mes

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support
Genotyping Protocols
Probe: Generic Cre Probe
Standard PCR: Tg(GFAP-cre)25Mes
Melt Curve Analysis: Tg(GFAP-cre)25Mes
MELT: Generic Cre Melt Curve Analysis
Genotyping resources and troubleshooting

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

Breeding Considerations
The strain is maintained as a hemizygote on the FVB/N background.
Additional Breeding and Husbandry Support

Mating System
Noncarrier x Hemizygote

Citation
When using the FVB: Tg(GFAP-cre)25Mes/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #004600 in your Materials and Methods section.
Facility Barrier Level Descriptions

Animal Health Reports

Pricing & Availability

Repository Live

2–4 week lead time for up to 4 mice at 4–8 weeks old and age requests are not accepted

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Breeder Pair

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