B6.Cg-Tg(Gfap-cre)77.6Mvs/2J

Stock No: 024098 | GFAP-Cre line 77.6

Congenic, Transgenic

Also Known As: GFAP-Cre line 77.6

GFAP-Cre transgenic mice from founder line 77.6 have Cre recombinase expression directed to astrocytes in the brain and spinal cord by the mouse glial fibrillary acidic protein promoter. These mice may be useful for studying astrocytes in the brain and spinal cord.

Donating Investigator

Michael V Sofroniew, University of California Los Angeles

RESEARCH APPLICATIONS

Research Tools
Neurobiology Research
Developmental Biology Research

BASE PRICE
Important Note
In 2014, The Jackson Laboratory imported correctly-expressing GFAP-Cre line 77.6 mice from Dr. Michael Sofroniew to establish Stock No. 024098. This replaces Stock No. 012887.

Detailed Description
Mice hemizygous for the Gfap-cre transgene are viable and fertile, with a mouse glial fibrillary acidic protein (mGfap) promoter sequence directing expression of Cre recombinase. Specifically, Cre recombinase activity (as defined by expression of a floxed-STOP reporter gene) is targeted to most astrocytes throughout healthy brain and spinal cord tissues, and to essentially all astrocytes following central nervous system (CNS) injury.

These GFAP-Cre line 77.6 mice (Stock No. 024098) also have Cre recombinase activity in a subpopulation of adult neural stem cells in the subventricular zone. In contrast to GFAP-Cre line 73.12 (Stock No. 012886), GFAP-Cre line 77.6 mice are reported to have no Cre recombinase activity in postnatal or adult neural stem cells (or their progeny) from the hippocampus or other brain regions. As such, GFAP-Cre line 77.6 mice are particularly useful for selective targeting of astrocytes. Additionally, the donating investigator reports GFAP-Cre lines 73.12 and 77.6 have cre expression in the male germline, and suggests breeding GFAP-Cre females with floxed males for Cre-lox experiments.

When GFAP-Cre line 77.6 mice are bred with mice containing a loxP-flanked sequence, Cre-mediated recombination is expected to result in deletion of the floxed sequences in the Cre recombinase-expressing tissues of the offspring. These GFAP-Cre line 77.6 mice may be useful for studying astrocytes in the brain and spinal cord.
Genotyping Protocols
QPCR: Generic Cre Quantitative PCR
Standard PCR: Tg(Gfap-cre)77.6Mvs
MELT: Tg(Gfap-cre)77.6Mvs
Genotyping resources and troubleshooting

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

Breeding Considerations
When maintaining a live colony, hemizygous mice may be bred to wildtype (noncarrier) mice from the colony or to C57BL/6J inbred mice (Stock No. 000664). Of note, the donating investigator reports GFAP-Cre lines 73.12 and 77.6 have cre expression in the male germline, and suggests breeding GFAP-Cre females with floxed males for Cre-lox experiments.

Additional Breeding and Husbandry Support

Mating System
Hemizygote x Noncarrier

Citation
When using the GFAP-Cre line 77.6 mouse strain in a publication, please cite the originating article(s) and include JAX stock #024098 in your Materials and Methods section.

Facility Barrier Level Descriptions

### Pricing & Availability

3–6 week lead time for most orders depending on quantity and age range requested

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<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
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<tr>
<td>Approx 4–8 weeks</td>
<td>Female</td>
<td>Hemizygous for Tg(Gfap-cre)77.6Mvs</td>
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<tr>
<td></td>
<td>Male</td>
<td>Hemizygous for Tg(Gfap-cre)77.6Mvs</td>
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