B6N.Cg-Tgfra-cre/ERT)467Dbe/J

Stock No: 018280

- Congenic, Transgenic

PLACE ORDER

3–6 week average lead time depending on quantity and age requests are not accepted

Pdgfra-creER™ transgenic mice can be used to create conditional mutations in oligodendrocyte precursor or NG2⁺ cells in the adult forebrain and spinal cord. They may have applications in studies related to CNS cell repair and replacement.

Donating Investigator
Dwight E Bergles, Johns Hopkins School of Medicine

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>9x+pN2F13</td>
<td></td>
</tr>
<tr>
<td>(2018-09-13 00:00:00)</td>
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</tbody>
</table>

Tg(Pdgfra-cre/ERT)467Dbe

Allele Type
Transgenic (Recombinase-expressing, Inducible)

VIEW GENETICS

RESEARCH APPLICATIONS

- Neurobiology Research
- Research Tools

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

$76.22 Domestic price for female
Details

Detailed Description

In Pdgfra-creER<sup>TM</sup> transgenic mice, expression is directed by the platelet derived growth factor receptor, alpha polypeptide (Pdgfra) promoter/enhancer regions within a BAC transgene. These BAC mice express Cre-ER<sup>TM</sup> protein in oligodendrocyte precursor cells (OPCs) or NG2<sup>+</sup> cells in the adult forebrain and spinal cord. The donating investigator indicates that cre activity is also observed in a subset of perivascular pericytes (not always identical to NG2<sup>+</sup> pericytes), as well as ependymal cells in the choroid plexus and lining the central canal of the spinal cord. Restricted to the cytoplasm, Cre-ER<sup>TM</sup> can only gain access to the nuclear compartment after exposure to tamoxifen. When these mice are bred with mice containing loxP-flanked sequence, tamoxifen-inducible, Cre-mediated recombination will result in deletion of the floxed sequences in the cre-expressing cells of the offspring. Mice hemizygous for the transgene are viable and fertile. These mice are useful when following the fate of NG2<sup>+</sup> cells in the central nervous system during cell replacement.

The donating investigator recommends using an appropriate Cre-reporter line in combination with this strain. R0SA26-tdTomato-based reporters may be too sensitive for some applications. For additional guidance regarding the selection of an appropriate reporter line, please see the supplementary information provided by the donating investigator.

Development

Expression Data

Control Suggestions

Genetics

Tg(Pdgfra-cre/ERT)467Dbe

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support
Genotyping Protocols
Separated PCR: Tg(Pdgfra-cre/ERT1)467Db
Standard PCR: Tg(Pdgfra-cre/ERT1)467Db
MELT: Tg(Pdgfra-cre)
Genotyping resources and troubleshooting

Dietary Information
LabDiet® 5K5Z formulation (6% fat)

Breeding Considerations
When maintaining a live colony, hemizygous mice may be bred with wildtype (noncarrier) mice from the colony or with C57BL/6NJ inbred mice (Stock No. 005304). The donating investigator has not attempted to generate homozygous mice to date (May 2012).
Additional Breeding and Husbandry Support

Mating System
Noncarrier x Hemizygote
Hemizygote x Noncarrier

Citation
When using this strain, please cite the originating article(s) and include JAX stock #018280 in your Materials and Methods section.

Facility Barrier Level Descriptions

Pricing & Availability
3–6 week average lead time depending on quantity and age requests are not accepted

Repository Live

<table>
<thead>
<tr>
<th>Live Mouse</th>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>approx 4-8 weeks</td>
<td>female</td>
<td>Hemizygous for Tg(Pdgfra-cre/ERT1)467Db</td>
<td>$255.00</td>
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<tr>
<td>approx 4-8 weeks</td>
<td>male</td>
<td>Hemizygous for Tg(Pdgfra-cre/ERT1)467Db</td>
<td>$255.00</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Breeder Pair</th>
<th>SEX</th>
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<tbody>
<tr>
<td>female</td>
<td>Noncarrier</td>
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<td>$331.22</td>
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<tr>
<td>male</td>
<td>Hemizygous for Tg(Pdgfra-cre/ERT1)467Db</td>
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- All
- By Allele
- By Gene
- By Collection

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