B6.CBA-Tg(Tbx21-cre)1Dlc/J

Stock No: 024507 | Tbet-cre

Transgenic

AVAILABLE

PLACE ORDER

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

Overview

Also Known As: Tbet-cre

These transgenic mice express Cre recombinase from the mouse Tbx21 (T-box 21; also called Tbet) promoter in mitral cells of the main and accessory olfactory bulbs.

Donating Investigator

Catherine Dulac, Harvard University, HHMI
**GENETIC OVERVIEW**

**Genetic Background**

N?/pN2F6  
(2018-01-11 00:00:00)

**Tg(Tbx21-cre)1Dlc**

**Allele Type**

Transgenic (Recombinase-expressing)

**RESEARCH APPLICATIONS**

Research Tools  
Neurobiology Research

**BASE PRICE**

Starting at:

- $278.00 Domestic price for female
- $356.51 Domestic price for breeder pair

**Details**

**Detailed Description**

These transgenic mice express Cre recombinase from the mouse Tbx21 (T-box 21; also called Tbet) promoter in mitral cells of the main and accessory olfactory bulbs. Surveys of the rest of the brain show that Cre-induced recombination is specific to the olfactory bulbs and occurs by E14.5 in the developing mitral cell layer. Cre-mediated recombination has also been demonstrated in the thymus. Homozygotes are viable and fertile, and are phenotypically normal.

Mitrail and tufted cells demonstrate lacZ staining in progeny derived from crosses with a floxed STOP lacZ reporter strain (e.g. Stock No. 003474).

Crosses with a floxed Stop hChR2(H134R)-TdTomato fluorescent reporter strain (see Stock No. 012567) enable direct optogenetic activation of mitral and tufted cells in the olfactory bulb.

**Development**

**Expression Data**
Genotyping Protocols
MELT: Tg(Tbx21-cre)1Dlc
Genotyping resources and troubleshooting

Breeding Considerations
Homozygous and hemizygous mice are viable and fertile.
Additional Breeding and Husbandry Support

Mating System
Noncarrier x Hemizygote
Hemizygote x Noncarrier

Citation
When using the Tbx21 cre mouse strain in a publication, please cite the originating article(s) and include JAX stock #024507 in your Materials and Methods section.

Animal Health Reports
AX9 (Standard)

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

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<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(Tbx21-cre)1Dlc</td>
<td>$278.00</td>
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Breeder Pair

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Related Products and Services

| Frozen Mouse Embryo | $2,595.00 per straw or vial |

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