B6N.FVB-Tg(BGLAP-cre)1Clem/J

Stock No: 019509 | OC-cre

Congenic, Transgenic

Repository Live

PLACE ORDER

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

Overview

Also Known As: HOC-cre, OC-cre line 6, OCNCre, osteocalcin-Cre, OC-cre

OC-cre transgenic mice express cre-recombinase in osteoblasts and may be useful in applications related to the study of bone and skeletal development.

Donating Investigator

Thomas Clemens, Johns Hopkins University
**GENETIC OVERVIEW**

**Genetic Background**

N17+pN3F3  
(2018-06-13 00:00:00)

**Tg(BGLAP-cre)1Clem**

**Allele Type**

Transgenic (Recombinase-expressing)

**RESEARCH APPLICATIONS**

Research Tools  
Internal/Organ Research

**BASE PRICE**

Starting at:

- $76.22 Domestic price for female
- $347.22 Domestic price for breeder pair

**Details**

**Detailed Description**

In these OC-cre transgenic mice, Cre expression is directed by the human bone gamma carboxyglutamate protein (BGLAP) promoter/enhancer. Mice hemizygous for the transgene are viable and fertile.

Osteoblasts produce a matrix that becomes mineralized during the formation of bone. When these mice are bred with mice containing loxP-flanked sequences, Cre-mediated recombination will result in deletion of the floxed sequences in the osteoblasts of the offspring.

For example, when bred to B6;129-Igf1r<sup>tm2Acre</sup> <sup>/+</sup> (Stock No. 012251), the resulting mice have abnormal skeletal morphology with decreased numbers of osteoblasts and osteoclasts.
Genotyping Protocols
MELT: Tg(BGLAP-cre)1Clem
Genotyping resources and troubleshooting

Dietary Information
LabDiet® 5K52/5K67

Breeding Considerations
When maintaining a live colony, hemizygous mice may be bred to wildtype (noncarrier) mice from the colony, or to C57BL/6NJ inbred mice (Stock No. 005304).
Additional Breeding and Husbandry Support

Mating System
Hemizygote x Noncarrier
Noncarrier x Hemizygote

Citation
When using the 01-cre mouse strain in a publication, please cite the originating article(s) and include JAX stock #019509 in your Materials and Methods section.
### Pricing & Availability

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

**Repository Live**

<table>
<thead>
<tr>
<th>Domestic</th>
<th>International</th>
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<tbody>
<tr>
<td>Pricing effective for USA, Canada and Mexico shipping destinations</td>
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</table>

#### Live Mouse

<table>
<thead>
<tr>
<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(BGLAP-cre)1Clem</td>
<td>$271.00</td>
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</table>

#### Breeder Pair

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<tr>
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