B6.Cg-Tg(Hlx9-GFP)1Tmj/J

Stock No: 005029 | Hb9:GFP

Congenic, Transgenic

AVAILABLE

PLACE ORDER

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

Overview

Also Known As: Hb9:GFP
Mice homozygous for the transgene display distinct expression of GFP in dendrites, axons and soma of spinal motor neurons at embryonic day 9.5 to postnatal day 10 aged mice. Expression mimics endogenous HLXB9 expression pattern. This mutant mouse strain represents a model that may be useful for purification and in vivo tracking of spinal motor neurons.

Donating Investigator

Thomas M. Jessell, Columbia University/HHMI
**GENETIC OVERVIEW**

**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>N8+J30</td>
<td>(2019-06-13 00:00:00)</td>
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</tbody>
</table>

**Tg(Hlxb9-GFP)1Tmj**

**Allele Type**
Transgenic (Reporter)

**RESEARCH APPLICATIONS**

Research Tools
Neurobiology Research

**BASE PRICE**

Starting at:

- *$278.00 Domestic price for female*
- *$365.51 Domestic price for breeder pair*

**Details**

**Detailed Description**

These transgenic mice express Green Fluorescent Protein (GFP) under the direction of the mouse Mnx1 (also called Hlx9) promoter. Mice homozygous for the transgenic insert are viable, fertile, do not display any gross behavioral abnormalities, but are smaller in size than wildtype littermates. Homozygous pups born to homozygous females have a high mortality rate. Transgenic mice display distinct expression of GFP in dendrites, axons and soma of spinal motor neurons, allowing identification, isolation and purification of spinal motor neurons by FACS. GFP expression mimics endogenous HLXB9 expression pattern. Fluorescence is detected in axons, dendrites and processes of spinal motor neurons at embryonic day 9.5 to postnatal day 10 aged mice. This mutant mouse strain represents a model that may be useful for purification and in vivo tracking of spinal motor neurons.

**Development**

**Expression Data**

**Control Suggestions**

**Selected References**
Genotyping Protocols
Standard PCR: Fluorescent Proteins (Generic GFP)
Genotyping resources and troubleshooting

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

Breeding Considerations
The resulting male transgenic mice were backcrossed for 8 generations on the C57BL/6J background. The strain is maintained as a hemizygote, due to high mortality of homozygous pups born to homozygous females.

Additional Breeding and Husbandry Support
Mating System
Hemizygote x Noncarrier
Noncarrier x Hemizygote

Citation
When using the HSREP mouse strain in a publication, please cite the originating article(s) and include JAX stock #005029 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions
AX11 (Maximum)

Pricing & Availability
Live mice available in varying quantities. Ask Customer Service for details.
Available
## 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(Hlx9-GFP)1Tmj</td>
<td>$278.00</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Hemizygous for Tg(Hlx9-GFP)1Tmj</td>
<td>$278.00</td>
</tr>
<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Noncarrier</td>
<td>$78.51</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Noncarrier</td>
<td>$78.51</td>
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## Breeder Pair

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<tr>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Female</td>
<td>Hemizygous for Tg(Hlx9-GFP)1Tmj</td>
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<tr>
<td>Male</td>
<td>Noncarrier</td>
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<td></td>
</tr>
</tbody>
</table>

## Related Products and Services

- Frozen Mouse Embryo: $2,595.00 per straw or vial

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Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

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Related Strains

- All
- By Allele
- By Gene