B6.Cg-Tg(Csf1r-EGFP)1Hume/J

Stock No: 018549 | MacGreen

Congenic, Transgenic

PLACE ORDER

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

Overview

Also Known As: MacGreen

These 7.2fms-EGFP transgenic mice express enhanced green fluorescent protein in macrophages and trophoblast cells. This GFP reporter transgene may be used to label mononuclear phagocyte lineage cells.

Donating Investigator

David Hume, University of Edinburgh
GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N10+oN3</td>
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<tr>
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<td>(2018-11-30 00:00:00)</td>
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</tbody>
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**Tg(Csf1r-EGFP)1Hume**

**Allele Type**
Transgenic (Reporter)

**RESEARCH APPLICATIONS**
Research Tools

**BASE PRICE**
Starting at:

- $255.00 Domestic price for female
- $333.51 Domestic price for breeder pair

**Details**

**Detailed Description**

These MacGreen transgenic mice express the EGFP, enhanced green fluorescent protein, under the control of the mouse Csf1r, colony stimulating factor 1 receptor, promoter. Transgene expression (EGFP positive cells) mimics endogenous gene expression patterns. Fluorescence is detected in peritoneal, bone marrow-derived, and broncho/alveolar lavage macrophages, as well as Langerhans cells, by FACS analysis. At embryonic day 7.5, fluorescence is detected in the ectoplacental cone area. Trophoblasts in the deciduum and trophoblastic giant cells fluoresce in embryos aged embryonic day 10.5 and 12.5. At embryonic day 9.5, yolk sac-derived embryonic phagocytes are detectable by direct fluorescence microscopy. Mice hemizygous for the transgenic insert are viable and fertile. The Donating Investigator reports that homozygous mice have compromised fertility.

**Development**

**Expression Data**

**Control Suggestions**

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

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

Breeding Considerations
When maintaining a live colony, hemizygous mice may be bred together, to wildtype siblings, or to C57BL/6NJ inbred mice (Stock No. 005304). The Donating Investigator reports that homozygous mice have compromised fertility.

Additional Breeding and Husbandry Support

Mating System
Noncarrier x Hemizygote
Hemizygote x Noncarrier

Citation
When using the MiceGuru mouse strain in a publication, please cite the originating article(s) and include JAX stock #018549 in your Materials and Methods section.

Facility Barrier Level Descriptions
FGB29 (Standard)

Pricing & Availability
Live mice available in varying quantities. Ask Customer Service for details.
### 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(Csf1r-EGFP)1Hume</td>
<td>$255.00</td>
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<tr>
<td></td>
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<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Noncarrier</td>
<td>$78.51</td>
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<tr>
<td></td>
<td>Male</td>
<td>Noncarrier</td>
<td>$78.51</td>
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### Breeder Pair

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</tbody>
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### Related Products and Services

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

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### Payment Terms and Conditions

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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**Terms of Use**

**General Terms and Conditions**

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Email: TechTran@jax.org
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Related Strains

- All
- By Allele
- By Gene
- By Collection