B6;129-Myc<sup>tm1Slek</sup>/J

Stock No: 021935 | GFP-c-Myc KI

Targeted Mutation

AVAILABLE

PLACE ORDER

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

Overview

Also Known As: GFP-c-Myc KI

These c-Myc<sup>®</sup> mice express an N-terminal fusion EGFP/MYC protein, serve as a reporter for Myc gene protein product expression and have applications in studies related to cell cycle regulation, cell proliferation and growth and lymphocyte development.

Donating Investigator

Barry P Sleckman, Washington University School of Medicine

READ MORE +

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>?&lt;sup&gt;+&lt;/sup&gt;pN2F4</td>
<td>(2019-03-01 00:00:00)</td>
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**Myc<sup>tm1Slek</sup>**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Targeted (Reporter, Hypomorph)</td>
<td>Myc</td>
<td>myelocytomatosis oncogene</td>
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</tbody>
</table>

**RESEARCH APPLICATIONS**
- Cancer Research
- Cell Biology Research
- Research Tools

**BASE PRICE**
Starting at:
- $255.00 Domestic price for female

**Details**

**Detailed Description**
Myc (myelocytomatosis oncogene) gene encodes a protein involved in cellular metabolism, cell proliferation and gene transcription regulation. These GFP-c-Myc mice carry a targeted mutation in which Enhanced Green Fluorescent Protein (EGFP) cDNA was inserted in-frame into exon 2, resulting in an N-terminal EGFP/MYC fusion protein that retains full endogenous functionality, and serve as a reporter for Myc expressing cells by flow cytometry. Expression of the mutant EGFP/Myc fusion gene is detected at levels similar to wildtype by Northern blot analysis of both resting or Con-A stimulated T cells. Western blot analysis of activated T cells reveals slightly lower level of EGFP/MYC fusion gene product. Analysis of thymocytes by flow cytometry demonstrates a heterogeneity in GFP-c-Myc expression levels, depending on development stage. The highest levels of fusion protein expression is detected in proliferating lymphocytes. GFP fluorescence is also detected in the myeloerythroid progenitor fraction of bone marrow cells by flow cytometry.

Homozygotes are viable and fertile.

**Development**

**Expression Data**

**Control Suggestions**
Genotyping Protocols
Standard PCR: Myc<sup>Im3Slk</sup>
Genotyping resources and troubleshooting

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

Breeding Considerations
When maintaining a live colony, these mice can be bred as homozygotes.

Mating System
Heterozygote x Homozygote

Citation
When using the GFP<sup>+</sup> Myc<sup>Im3Slk</sup> mouse strain in a publication, please cite the originating article(s) and include JAX stock #021935 in your Materials and Methods section.

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>Heterozygous for Myc (tm1Siek)</td>
<td>$255.00</td>
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<tr>
<td></td>
<td>Male</td>
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**Related Products and Services**

<table>
<thead>
<tr>
<th>Product</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frozen Mouse Embryo</td>
<td>$2,595.00 per straw or vial</td>
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**Payment Terms and Conditions**

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**Terms Of Use**

**Terms of Use**

**General Terms and Conditions**

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Phone: 207-288-6470
Email: TechTran@jax.org

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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains