B6;129S2-Nr4a1<sup>tm1Jmi</sup>/J

Stock No: 006187 | NGFI-B-

- Congenic, Targeted Mutation

**Overview**

**Also Known As: Nur77<sup>-</sup>, NGFI-B**

Adrenal expression of Nr4a2 is increased threefold following LPS challenge in homozygous mice of this strain. Mutant mice may be useful in studies of anti-psychotic drug/neuroleptic therapies and other neurological studies.

**Donating Investigator**

Jeffrey Milbrandt, Washington University School of Medicine, St. Louis

**PLACE ORDER**

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

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tr>
<td>Nr4a1^tm1Jmi</td>
<td>?+N1pN3F10</td>
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**Allele Type**

- Targeted (Null/Knockout)

**Gene Symbol**

- Nr4a1

**Gene Name**

- Nuclear receptor subfamily 4, group A, member 1

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**RESEARCH APPLICATIONS**

- Research Tools
- Neurobiology Research
- Internal/Organ Research

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**BASE PRICE**

- Starting at:
  - $255.00 Domestic price for female 4-week

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**Details**

**Detailed Description**

Mice homozygous for this targeted mutation are viable and fertile, with no gross anatomical or behavioral abnormalities. No transcript is detectable in thymus. Following acute neuroleptic administration with dopamine D2 receptor antagonists (haloperidol and/or raclopride), homozygous mice exhibit reduced catalepsy and disrupted neuropeptide responses in the brain. In homozygotes, adrenal expression of Nr4a2 (also called Nurr1) is increased threefold following LPS challenge. Mutant mice may be useful in studies of antipsychotic drug/neuroleptic therapies, schizophrenia, neurobiology, nuclear receptor family transcription pathways, adrenal gland, and steroidogenesis.

**Development**

**Control Suggestions**

**Selected References**

**Genetics**

- Nr4a1^tm1Jmi
Genotyping Protocols
High Resolution Melting: N_{4a}^{1tm1Jmi} Alternate1
Standard PCR: N_{4a}^{1tm1Jmi}
Genotyping resources and troubleshooting

Dietary Information
New Diet as of March 2015: Lab Diet® 5K0Q (6% fat)

Breeding Considerations
When maintaining a live colony, these mice are maintained as homozygotes.

Additional Breeding and Husbandry Support

Mating System
Homozygote x Homozygote

Citation
When using the NGE®, mouse strain in a publication, please cite the originating article(s) and include JAX stock #006187 in your Materials and Methods section.

Animal Health Reports

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

Domestic  International
Pricing effective for USA, Canada and Mexico shipping destinations

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<td>N_{4a}^{1tm1Jmi}</td>
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<tr>
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**Related Products and Services**

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

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- All
- By Allele