**Overview**

**Also Known As: Ncr1<sup>gf<sub>p</sub></sup>**

Ncr1<sup>gf<sub>p</sub></sup> mice are useful when tracking natural killer cells during infection.

**Donating Investigator**

Ofer Mandelboim, The Hebrew University of Jerusalem

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**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>N10+pN2F10</td>
<td></td>
</tr>
<tr>
<td>(2019-03-18 00:00:00)</td>
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</table>
**Ncr1^Im10man**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Targeted (Reporter, Null/Knockout)</td>
<td>Ncr1</td>
<td>natural cytotoxicity triggering receptor 1</td>
</tr>
</tbody>
</table>

**RESEARCH APPLICATIONS**
Research Tools
Immunology, Inflammation and Autoimmunity Research

**BASE PRICE**
Starting at:
$278.00 Domestic price for female 4-week

**Details**

**Detailed Description**
An internal ribosome entry site (IRES)-GFP (green fluorescent protein) fusion protein, replaces exons 5-7 of the natural cytotoxicity triggering receptor 1 (Ncr1 or NKp46), abolishing gene function. NCR1 is expressed specifically on natural killer (NK) cells and possibly on related innate lymphocytes. Homozygous mice are viable and fertile. These mice are more susceptible to influenza viral infection at the LD50 dose. The GFP reported reveals increased numbers of NK cells at sites of infection and decreased circulating NK cells during infection. This reporter also enables the identification of Interferon Producing Killer Dendritic Cells-like (IKDCs) as activated NK cells.

**Development**

**Expression Data**

**Control Suggestions**

**Selected References**

**Genetics**

**Ncr1^Im10man**
Genotyping Protocols
High Resolution Melting: Ncr1<sup>tm10man</sup>
Standard PCR: Ncr1<sup>tm10man</sup>

Genotyping resources and troubleshooting

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

Breeding Considerations
When maintaining a live colony, homozygous mice may be bred together.

Additional Breeding and Husbandry Support

Mating System
Homozygote x Homozygote

Citation
When using the Ncr1<sup>tm10man</sup> mouse strain in a publication, please cite the originating article(s) and include JAX stock #022739 in your

Animal Health Reports
Facility Barrier Level Descriptions
A<sup>+</sup> AX10 (Standard)

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

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 weeks</td>
<td>Female</td>
<td>Homozygous for Ncr1&lt;sup&gt;tm10man&lt;/sup&gt;</td>
<td>$278.00</td>
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<tr>
<td>SEX</td>
<td>5 weeks</td>
<td>6 weeks</td>
<td>7 weeks</td>
</tr>
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<td>-----</td>
<td>---------</td>
<td>---------</td>
<td>---------</td>
</tr>
<tr>
<td>Male</td>
<td>Homozygous for Ncr1&lt;sub&gt;tm10man&lt;/sub&gt;</td>
<td>Homozygous for Ncr1&lt;sub&gt;tm10man&lt;/sub&gt;</td>
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</tbody>
</table>

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Terms of Use

General Terms and Conditions

**Licensing Information**

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

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Related Strains

- All
- By Allele
- By Gene
- By Collection

All Related Strains
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TOMORROW'S CURES