B6.129S6-Il10<sup>tm1Flv</sup>/J

Stock No: 008379 | tiger

Congenic, Targeted Mutation

REPOSITORY LIVE

PLACE ORDER

3–6 week average lead time depending on quantity and age requests are not accepted

Also Known As: tiger

Green fluorescent protein of the inserted targeting vector is preferentially observed in some populations of intestinal tissue, but otherwise recapitulates normal expression patterns. This reporter strain may be used to detect and monitor cells committed to interleukin 10 (IL10) production.

Donating Investigator

Dr. Richard A. Flavell, Yale University School of Medicine

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GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td>N10×pN2F6</td>
<td>(2017-07-27 00:00:00)</td>
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<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tr>
<td>Targeted (Reporter, No functional change)</td>
<td>Il10</td>
<td>interleukin 10</td>
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</table>

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools
Immunology, Inflammation and Autoimmunity Research

VIEW ALL RESEARCH APPLICATIONS
Details

Detailed Description
This reporter strain may be used to detect and monitor cells committed to interleukin 10 production. Green fluorescent protein knocked into the gene faithfully recapitulates normal expression patterns but is preferentially observed in some populations of the intestinal tissue. Expression assayed by fluorescent-activated cell sorting (FACS) has been detected after activation in macrophages and dendritic cells as well as intraintestinal lymphocytes and lamina propria lymphocytes. Targeted allele expression is slightly reduced, as compared to wild-type. Although homozygotes have reduced IL10 expression, they are both viable and fertile.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Il10tm1Fnu

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support
Genotyping Protocols
Standard PCR: Il10^{tm1Flv}
Standard PCR: Il10 tm1Flv
Genotyping resources and troubleshooting

Breeding Considerations
When maintained as a live colony, heterozygotes or homozygotes may be bred. The donating laboratory maintained the line heterozygously; homozygotes were not used experimentally due to decreased Il10 production.

Additional Breeding and Husbandry Support

Mating System
++ sibling x Heterozygote

Citation
When using the liver mouse strain in a publication, please cite the originating article(s) and include JAX stock #008379 in your Materials and Methods section.

Facility Barrier Level Descriptions
AX12 (Maximum)

Pricing & Availability
3–6 week average lead time depending on quantity and age requests are not accepted

Repository Live

<table>
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<tr>
<th>Live Mouse</th>
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<td>AGE</td>
<td>SEX</td>
<td>GENOTYPE</td>
<td>PRICE</td>
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<tr>
<td>Approx 4–8 weeks</td>
<td>Female</td>
<td>Heterozygous for Il10^{tm1Flv}</td>
<td>$255.00</td>
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<tr>
<td>Approx 4–8 weeks</td>
<td>Male</td>
<td>Heterozygous for Il10^{tm1Flv}</td>
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<tr>
<td>Approx 4–8 weeks</td>
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<tr>
<td>Approx 4–8 weeks</td>
<td>Male</td>
<td>Wild-type for Il10^{tm1Flv}</td>
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<tr>
<td>Male</td>
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</table>

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