B6.129(Cg)-Lepr<sup>tm2(cre)Rck</sup>/J

Stock No: 008320 | ObRb-Cre

Congenic, Targeted Mutation

Also Known As: ObRb-Cre

Cre activity is demonstrable in the hypothalamus, limbic and cortical brain regions, and retrosplenial cortex of these knock-in Lepr mice. When bred with a mouse containing a loxP site-flanked sequence of interest, Cre-mediated recombination results in deletion of the flanked genome in tissues that normally express the targeted gene. This strain has been used in virus-assisted mapping of neural inputs and may be useful in studies of neural features of feeding behaviors.

Donating Investigator

Jeffrey Friedman, Rockefeller University, HHMI

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td>N11+pN3F7</td>
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<td>(2018-06-13 00:00:00)</td>
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<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Targeted (Recombinase-expressing)</td>
<td>Lepr</td>
<td>leptin receptor</td>
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Neurobiology Research
Diabetes and Obesity Research
Research Tools
Details

Detailed Description

Mice heterozygous for this targeted mutation are viable and fertile and do not display any gross physical or behavioral abnormalities. Cre activity is demonstrable in the hypothalamus (arcuate, dorsomedial (DMH), lateral (LH), and ventromedial (VMH) nuclei), limbic and cortical brain regions (basolateral amygdaloid nucleus (BLA), piriform cortex (Pir), and lateral entorhinal cortex (LEnt)), and retrospenial cortex. When bred with a mouse containing a loxP site-flanked sequence of interest, Cre-mediated recombination results in deletion of the flanked genome in tissues that normally express the gene. This strain has been used in virus-assisted mapping of neural inputs and may be useful in studies of neural features of feeding behaviors.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Lepr^{tm2(cre)Rck}

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

High Resolution Melting: Lepr^{tm2(cre)Rck} - Alternate 3
Probe: Generic Cre Probe
Standard PCR: Generic Cre
MELT: Generic Neo
MELT: Generic Cre Melt Curve Analysis
Probe: Generic Neo
Genotyping resources and troubleshooting
Dietary Information
LabDiet® 5K52 formulation (6% fat)

Breeding Considerations
When maintained as a live colony, heterozygotes may be bred.
Additional Breeding and Husbandry Support

Mating System
Homozygote x Homozygote

Citation
When using this ObPrf-Cre mouse strain in a publication, please cite the originating article(s) and include JAX stock #008320 in your Materials and Methods section.

Facility Barrier Level Descriptions

AX18 (Maximum)

Related Strains

All

By Allele

By Gene

By Collection

All Related Strains
ELLSWORTH FACILITY OFFICIALLY OPEN AND OPERATIONAL
Shipments have begun at our new facility, allowing increased access to JAX mouse models.

Leading the search for
TOMORROW'S CURES

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