B6J.Cg-Vip tm1(cre)Zjh/AreckJ

Stock No: 031628 | Vip-IRES-cre (C57BL/6J), B6J.Vip-IRES-cre

Available for pre-order

Estimated to begin distribution on: Dec 31, 2018

Also Known As: Vip-IRES-cre (C57BL/6J), B6J.Vip-IRES-cre

Vip-IRES-Cre mice have Cre recombinase expression directed to Vip-expressing cells by the endogenous promoter/enhancer elements of the vasoactive intestinal polypeptide locus. Cre activity is detected in the neocortex, hippocampus, olfactory bulb, suprachiasmatic nuclei, and other discrete midbrain and brainstem regions. These mice may be useful to study neural GABAergic circuits throughout the mammalian brain.

Stock No. 031628 is a C57BL/6J-congenic Vip-IRES-Cre knock-in mouse line, called Vip-IRES-Cre (C57BL/6J) or B6J.Vip-IRES-Cre. Of note, the same Vip-IRES-Cre knock-in allele is also available on a STOCK genetic background as Stock No. 010908.

Donating Investigator

Z. Josh Huang, Cold Spring Harbor Laboratory
Melissa R Warden, Cornell University
Andrew K Recknagel, Cornell University

READ MORE +

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td></td>
<td>N5+pN1</td>
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**Vip tm1(cre)Zjh**

<table>
<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>Vip</td>
<td>vasoactive intestinal polypeptide</td>
</tr>
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</table>

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools
Neurobiology Research
Details

Detailed Description

In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. The phenotype summarized below is for the parental line: Vip-IRESCre knock-in mice on a C57BL/6J:129S4 genetic background (Stock No. 010908). It should be noted that the phenotype of this C57BL/6J-congenic Vip-IRESCre knock-in line (Stock No. 031628: Vip-IRESCre (C57BL/6J) or B6.1Vip-IRESCre) could vary from that of the parental line from which it was derived. The phenotype below describes the parental line (Stock No. 010908).

The Vip-IRESCre allele harbors an internal ribosome entry site and Cre recombinase in the 3'UTR of the vasoactive intestinal polypeptide locus (Vip). As such, it is designed to have the endogenous Vip promoter/enhancer elements directing cre expression in the neocortex, hippocampus, olfactory bulb, suprachiasmatic nuclei, and other discrete midbrain and brainstem regions. When Vip-IRESCre mice are bred with mice containing loxP-flanked sequences, Cre-mediated recombination will result in deletion of the floxed sequences in the Vip-expressing cells in the offspring. Vip expression from the Vip-IRESCre allele has not been evaluated. Additional phenotype information described below.

In 2010, the donating investigator reported Cre recombinase activity is specific and efficient (largely recapitulates the endogenous Vip expression pattern with highly efficient recombination). They report Cre recombinase activity in some GABAergic interneurons, and did not examine cre expression in the intestine or tissues other than brain. Vip expression from the Vip-IRESCre allele was not evaluated. They also reported that homozygous mice are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities.

For characterization information, see images at the Allen Institute for Brain Science website (Vip-IRESCre images).

If the recombinase activity pattern of this allele is further characterized by the Genetic Resource Science group at The Jackson Laboratory, such findings will be reported on the Mouse Genome Informatics (MGI) Allele Detail entry (Vip<sup>tm1creD00</sup>). This same information would also be found searching the MGI Recombinase Activity database.

Development

Expression Data

Control Suggestions

Selected References
## Genotyping Protocols

High Resolution Melting: $\text{Vip}^{\text{im1(cre)Zjh}}$

Genotyping resources and troubleshooting

## Dietary Information

LabDiet® 5K52 formulation (6% fat)

## Breeding Considerations

Homozygous mice are viable and fertile. When maintaining a live colony at The Jackson Laboratory Repository, homozygous mice may be bred together.

Additional Breeding and Husbandry Support

## Mating System

Heterozygote x Heterozygote

## Citation

When using the Vip-ires-cre (B6J.Vip-IRES-cre) mouse strain in a publication, please cite the originating article(s) and include JAX stock #031628 in your Materials and Methods section.

Animal Health Reports

<table>
<thead>
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<th>Facility Barrier Level Descriptions</th>
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<td>AX11 (Maximum)</td>
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## Pricing & Availability

Estimated to begin distribution on: Dec 31, 2018

Available for Pre-order
<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
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### Breeder Pair

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Email: TechTran@jax.org

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**Related Strains**

- All
- By Allele
- By Gene
- By Collection

All Related Strains