STOCK Vip^{tm1cre}Zjh/J

Stock No: 010908 | Vip-IRES-cre

Targeted Mutation

PLACE ORDER

0–2 week average lead time for 10 or more mice with age range

Also Known As: 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.

Of note, the same Vip-IRES-Cre allele will also be available on a C57BL/6J genetic background as Stock No. 031628.

Donating Investigator

Z. Josh Huang, Cold Spring Harbor Laboratory

READ MORE +

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td></td>
<td>F7×pN1F14</td>
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<td>(2018-05-01 00:00:00)</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>
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VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools
Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS
Details

Detailed Description

The Vip-IRES-Cre 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-IRES-Cre 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-IRES-Cre 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-IRES-Cre 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-IRES-Cre 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^{tm1cre2h}). This same information would also be found searching the MGI Recombinase Activity database.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Vip^{tm1cre2h}

Disease/Phenotype

Disease Terms
Genotyping Protocols
Probe: Gr(rosa)26spor
Standard PCR: Vip
High Resolution Melling: Vip
Genotyping resources and troubleshooting

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 B6-129S7-tdTomato-FRT;FRSE1a-cre mouse strain in a publication, please cite the originating article(s) and include JAX stock #010908 in your
Facility Barrier Level Descriptions

AX11 (Maximum)

Pricing & Availability
0–2 week average lead time for 10 or more mice with age range

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
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<tr>
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<td>Female</td>
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<tr>
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<td>Male</td>
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<td>5 weeks</td>
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<td></td>
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<td>$263.00</td>
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| All |

| By Allele |

| By Gene |

| By Collection |

All Related Strains