B6.Cg-Avp^{tm1.1(cre)Hzc/J}

Stock No: 023530 | AVP-IRE2-Cre-D

Congenic, Targeted Mutation

Available

PLACE ORDER

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

Overview

Also Known As: AVP-IRE2-Cre-D

AVP-IRE2-Cre-D knockin mice have Cre recombinase expression directed to vasopressin-expressing cells (restricted populations within the hypothalamus). These mice may be useful for studying the function of antidiuretic hormone in water, glucose and salt homeostasis, as well as social behavior, sexual motivation and bonding, and maternal responses to stress.

Donating Investigator

Hongkui Zeng, Allen Institute for Brain Science
GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>N5F1×pN2F9</td>
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<tr>
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<td>(2018-09-06 00:00:00)</td>
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</table>

Avp<sup>tm1.1(cre)Hze</sup>

<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>Avp</td>
<td>arginine vasopressin</td>
</tr>
</tbody>
</table>

RESEARCH APPLICATIONS
Cell Biology Research
Neurobiology Research
Research Tools

BASE PRICE
Starting at:

- $76.22 Domestic price for female
- $347.22 Domestic price for breeder pair

Details

Detailed Description
The AVP-IRES2-Cre-D (also called AVP-IRES2-Cre- or AVP-IRES2-Cre-neo) targeted mutation has an IRES2 sequence and a Cre recombinase gene inserted downstream of the translational STOP codon of the arginine vasopressin gene (Avp). As such, AVP-IRES2-Cre-D mice have Cre recombinase expression directed to vasopressin-expressing cells by the endogenous promoter/enhancer elements of the Avp locus.

When AVP-IRES2-Cre-D mice are bred with mice containing loxP-flanked sequences, Cre-mediated recombination will result in deletion of the floxed sequences in Avp-expressing cells in the offspring. The donating investigator reports Cre recombinase expression (in situ hybridization using a Cre-specific probe) is observed in a pattern very similar to that of the endogenous Avp gene. Specifically, cre expression is observed in restricted populations within the hypothalamus. The donating investigator did not examine cre expression in tissues other than brain.
Heterozygous mice are viable and fertile with no reported gross physical or behavioral abnormalities. The donating investigator has not attempted to generate homozygous mice to date (December 2013). For characterization information, see images at the Allen Institute for Brain Science website (AVP-IRE2-Cre images).

While this AVP-IRE2-Cre-D allele was designed as a 3' knock-in allele, AVP expression from this allele was not evaluated by the donating investigator (December 2013). As such, researchers may consider using heterozygous AVP-IRE2-Cre-D mice in their studies. We will modify the allele/strain description if necessary as published results become available.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Avp<sup>tm1.lher</sup>

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols
SEPARATED MELT: Avp<sup>tm1.1lher</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, heterozygous mice may be bred to wildtype siblings or to C57BL/6J inbred mice (Stock No. 000664). The donating investigator has not attempted to generate homozygous mice to date (December 2013).

Additional Breeding and Husbandry Support
Mating System
Wild-type x Heterozygote
Heterozygote x Wild-type

Citation
When using the A/JRES2-Cre-D mouse strain in a publication, please cite the originating article(s) and include JAX stock #023530 in your Materials and Methods section.
Facility Barrier Level Descriptions
AX10 (Standard)

🌍 Pricing & Availability

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

Available

 Domestic | International
Pricing effective for USA, Canada and Mexico shipping destinations

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<tr>
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<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Heterozygous for Avp</td>
<td>$271.00</td>
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Related Products and Services

<table>
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<tr>
<th>Product</th>
<th>Price</th>
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<tbody>
<tr>
<td>Frozen Mouse Embryo</td>
<td>$2,595.00 per straw or vial</td>
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Email: TechTran@jax.org

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TOMORROW'S CURES