B6;129P2-Pvalb
tm1(cre)Arbr/J

Stock No: 008069 | PV cre

Targeted Mutation

Also Known As: PV cre

A C57BL/6J congenic version of this strain is available as Stock No. 017320.

PV-Cre knockin mice express Cre recombinase in parvalbumin-expressing neurons (such as interneurons in the brain and proprioceptive afferent sensory neurons in the dorsal root ganglia), without disrupting endogenous Pvalb expression. These mice may be useful in studying neuronal differentiation.

Donating Investigator

Silvia Arber, Friedrich Miescher Institute

REQUEST CRYORECOVERY
Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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| Pvalb
tm1(cre)Arbr      |            |

<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>Pvalb</td>
<td>parvalbumin</td>
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</tbody>
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RESEARCH APPLICATIONS
Research Tools
Neurobiology Research
BASE PRICE
Starting at:
$2,595.00 Domestic price Cryo Recovery

VIEW PRICE LIST

Details

Detailed Description
The PV-Cre knockin allele has the endogenous parvalbumin (Pvalb) promoter/enhancer elements directing Cre recombinase expression to Pvalb-expressing cells. Endogenous Pvalb expression remains intact. When crossed with a strain containing loxP site flanked sequence of interest, Cre-mediated recombination results in tissue-specific deletion of the target. Recombination occurs in more than 90% of neurons that express parvalbumin, such as interneurons in the brain and proprioceptive afferent sensory neurons in the dorsal root ganglia. This mutant mouse strain represents a model that may be useful in studies of neuronal differentiation. Of note: parvalbumin is expressed in sperm; use of male PV-Cre mice may result in unwanted germline recombination and global recombination.

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 (Pvalb<sup>tm1(cre)Arbr</sup>). This same information would also be found searching the MGI Recombinase Activity database.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Pvalb<sup>tm1(cre)Arbr</sup>

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support
Genotyping Protocols
Separated PCR: \texttt{Pvalb}^{tm1(cre)Arbr alternate2}
High Resolution Melting: \texttt{Pvalb}^{tm1(cre)Arbr alternate2}
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, these mice can be bred as homozygotes. Of note: parvalbumin is expressed in sperm; use of male PV-Cre mice may result in unwanted germline recombination and global recombination.

Additional Breeding and Husbandry Support

Mating System
Homozygote x Homozygote

Citation
When using the PV-Cre strain in a publication, please cite the originating article(s) and include JAX stock #008069 in your Materials and Methods section.

Facility Barrier Level Descriptions
Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200

Pricing & Availability

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

<table>
<thead>
<tr>
<th>Cryorecovery - Domestic Pricing</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous for Pvalb&lt;tm1(cre)Arbr&gt;</td>
<td>$2,595.00</td>
</tr>
</tbody>
</table>

We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryorecovery to establish a Dedicated Supply for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.
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All

By Allele

By Gene

By Collection

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tomorrow's cures