The PV-Cre knockin allele has the endogenous parvalbumin (Pvalb) promoter/enhancer elements directing Cre recombinase expression to Pvalb-expressing neurons in the central (cortical) and peripheral (dorsal root ganglia) regions, without disrupting endogenous Pvalb expression. These mice may be useful in studying neuronal differentiation.
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*). This same information would also be found searching the MGI Recombinase Activity database.

### Development

### Expression Data

### Control Suggestions

### Selected References

### Genetics

*Pvalb*^tm1(cre)Arbr^

### Disease/Phenotype

### Disease Terms

### Research Areas By Phenotype

### Mammalian Phenotype Terms by Genotype

### References

### Technical Support

Genotyping Protocols

* Standard PCR-*Pvalb*-Alternate2
* Standard PCR-*Pvalb*-Alternate7
* Probe-*Pvalb* Probe
* 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 mice strain in a publication, please cite the originating article(s) and include JAX stock #008069 in your Materials and Methods section.

**Animal Health Reports**

*Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200*

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**Pricing & Availability**

- **Cryo Recovery**

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

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<th>Description</th>
<th>Price</th>
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<td>Heterozygous for Pvalb&lt;tm1(cre)Arbr&gt;</td>
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**The Jackson Laboratory's Genotype Promise**

The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. Therefore, we cannot guarantee a strain's phenotype will meet all expectations. To ensure that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project. We do not guarantee breeding performance and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

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Related Strains

### All Related Strains

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<tr>
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<td>B6.Cg-Speer6-ps1&lt;sup&gt;Tg(Alb-cre)21Mgn&lt;/sup&gt;/J</td>
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