

**B6.129(SJL)-Kcnk9<sup>tm1.2Daba</sup>/J**

Stock No: **026191**

 Congenic, Targeted Mutation

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

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Donating Investigator

Doug Bayliss, University of Virginia

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## GENETIC OVERVIEW

Genetic Background

Generation

*Kcnk9<sup>tm1.2Daba</sup>*

**Alele Type**

Targeted (Conditional ready  
(e.g. floxed), No functional  
change)

**Gene Symbol**

*Kcnk9*

**Gene Name**

potassium channel, subfamily K, member 9

VIEW GENETICS

## RESEARCH APPLICATIONS

Neurobiology Research

Research Tools

Developmental Biology Research

VIEW ALL RESEARCH APPLICATIONS

## BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

V I E W   P R I C E   L I S T

### Details

#### Detailed Description

*Kcnk9<sup>ff</sup>* floxed mice possess *loxP* sites flanking exon 2 of the potassium channel, subfamily K, member 9 (*Kcnk9*) gene. *Kcnk9* is a pH-dependent, voltage-insensitive potassium channel that mediates background potassium currents responsible for setting resting membrane potential. *Kcnk9* is expressed in cerebellar granule cells, locus coeruleus, motor neurons, pontine nuclei, some cells in the neocortex, habenula, olfactory bulb granule cells, and cells in the external plexiform layer of the olfactory bulb. Mice that are homozygous for this allele are viable and fertile. Mice that are homozygous for this allele are viable and fertile. When bred to mice that express tissue-specific Cre recombinase, resulting offspring will have exon 2 deleted in the *cre*-expressing tissues.

When bred to Tg(Hsp70-1-cre)1Arge mice expressing *cre* at the 2 cells stage, *Kcnk9<sup>-/-</sup>* mice are normal. When bred to *Kcnk3<sup>ff</sup>* mice (Stock No. 026191) prior to *cre*-excision, double KO mice exhibit phenotypic similarity to the human syndrome bilateral idiopathic primary hyperaldosteronism, caused by an increase in aldosterone production by the adrenal glands that is resistant to salt suppression.

#### Development

#### Control Suggestions

#### Selected References

### Genetics

#### *Kcnk9<sup>tm1.2Daba</sup>*

### Disease/Phenotype

[+ Disease Terms](#)

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[+ Research Areas By Phenotype](#)

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[+ Mammalian Phenotype Terms by Genotype](#)

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[+ References](#)

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## [- Technical Support](#)

C O N T A C T   T E C H N I C A L   S U P P O R T

### Genotyping Protocols

Standard PCR:[Kcnk9](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

When maintaining a live colony, homozygous mice may be bred together.

[Additional Breeding and Husbandry Support](#)

### Citation

When using the B6.129(SJL)-*Kcnk9*<sup>tm1.2Daba</sup>/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #026191 in your Materials and Methods section.

### Animal Health Reports

[Facility Barrier Level Descriptions](#)

*Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, [G200](#)*

## [- Pricing & Availability](#)



Cryo  
Recovery

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

**Domestic** **International**

Pricing effective for USA, Canada and Mexico shipping destinations

## CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
<a href="#">Cryo Recovery</a>	Heterozygous or wildtype for Kcnk9<tm1.2Daba>	\$2,854.50

### PAYMENT TERMS AND CONDITIONS

Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

### 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.

## Terms Of Use

### TERMS OF USE

[General Terms and Conditions](#)

QUESTIONS ABOUT TERMS OF USE

### ADDITIONAL USE RESTRICTIONS APPLY

[Use of MICE by companies or for-profit entities requires a license prior to shipping.](#)

### LICENSING INFORMATION

Phone: 207-288-6470

Email: [TechTran@jax.org](mailto:TechTran@jax.org)

## Related Strains

All

By Allele

By Gene

By Collection



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