

**B6.129(Cg)-Kcnn2<sup>tm1.1Jpad</sup>/J**

Stock No: **009592**

 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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activated potassium (SK) channels in after-hyperpolarization and action potentials of neuronal, inner ear (cochlea), and urinary bladder tissues.

### Donating Investigator

John P Adelman, Vollum Inst. Oregon Health & Sci. Univ.

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## GENETIC OVERVIEW

Genetic Background

Generation

*Kcnn2<sup>tm1.1Jpad</sup>*

**Alele Type**

Targeted (Null/Knockout)

**Gene Symbol**

*Kcnn2*

**Gene Name**

potassium intermediate/small conductance calcium-activated channel, subfamily N, member 2

VIEW GENETICS

## RESEARCH APPLICATIONS

Neurobiology Research

Research Tools

Sensorineural Research

Cell 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

Homozygous SK2-delta (SK2-null) mice are viable but subfertile (homozygous males exhibit poor reproductive success and homozygous females are nurturing but produce small, infrequent litters). No RNA or protein expression from the targeted allele is observed in brain tissues, and no EGFP expression is reported. Homozygous mice are smaller than wild-type until approximately 5 weeks of age. SK2-deficient mice exhibit whole body tremor beginning around 10 days of age, with ataxia and impaired righting reflex when placed on their back at young ages. Homozygotes also have inner ear abnormalities (impaired exocytotic response of immature inner hair cells and impaired function/long-term survival of olivocochlear fibers and efferent synapses on cochlear outer hair cells). These SK2-delta mice may be useful in studying the role of small-conductance calcium-activated potassium (SK) channels in after-hyperpolarization and action potentials of neuronal, inner ear (cochlea), and urinary bladder tissues.

#### Development

#### Control Suggestions

#### Selected References

### Genetics

#### *Kcnn2*<sup>tm1.1Jpad</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

Separated PCR:[Kcnn2](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

When maintaining a live colony, heterozygous mice may be bred together, to wildtype siblings, or to C57BL/6J inbred mice (Stock No. [000664](#)). To enhance survival of homozygous pups, large littermates not exhibiting tremor may be removed.

[Additional Breeding and Husbandry Support](#)

### Citation

When using the B6.129(Cg)-*Kcnn2*<sup>tm1.1Jpad</sup>/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #009592 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](#)*

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## [- Pricing & Availability](#)



Cryo  
Recovery

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**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 Kcnn2<tm1.1Jpad>	\$2,854.50

RELATED PRODUCTS AND SERVICES		
<a href="#">Frozen Mouse Embryo</a>	B6.129(Cg)-Kcnn2<tm1.1Jpad>/J Frozen Embryo	\$2595.00

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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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Q U E S T I O N S   A B O U T   T E R M S   O F   U S E

### 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

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