

129S-*Iqgap2*^{tm1Vs} /J

Stock No: **025452** | *Iqgap2* null

 **Coisogenic, 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

Valentina A Schmidt, Stony Brook University

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GENETIC OVERVIEW

Genetic Background

Generation

Iqgap2^{tm1Vs}

Alele Type

Targeted (Null/Knockout)

Gene Symbol

Iqgap2

Gene Name

IQ motif containing GTPase activating protein 2

VIEW GENETICS

RESEARCH APPLICATIONS

Cancer Research

Metabolism Research

Research Tools

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

The *Iqgap2* gene encodes a Ras GTPase-activating-like scaffold protein, which interacts with the cytoskeleton, cell adhesion molecules and signaling molecules.

These mice carry a knock out mutation of the *Iqgap2* gene, in which a PGK-NEO cassette was used to disrupt a 36,241 bp genomic fragment which included exons 18 to 30. The mutation results in loss of part of the IQ2 and all of the IQ3, IQ4, and RasGAP-related domain motifs. Mice that are homozygous for the targeted mutation are viable and fertile. QRT-PCR confirmed the absence of transcript in hepatocytes and immunoblot analysis confirmed the absence of protein in liver, spleen, heart, and kidney lysates. Homozygotes develop spontaneous hepatocellular carcinoma by the age of 18-24 months. Facilitated long-chain fatty acids (LCFA) uptake is impaired, which protects from high fat diet-induced hepatic steatosis and insulin resistance. The lifespan of the null mice is shorter compared to wildtype littermates.

Development

Control Suggestions

Selected References

Genetics

Iqgap2^{tm1Vs}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

[+ Mammalian Phenotype Terms by Genotype](#)

[+ References](#)

[- 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:[Iqgap2-alternate3](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, these mice can be bred as homozygotes.

[Additional Breeding and Husbandry Support](#)

Citation

When using the Iqgap2 null mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #025452 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
Cryo Recovery	Heterozygous for Iqgap2<tm1Vs>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

129S-Iqgap2<tm1Vs>/J Frozen Embryo

\$2595.00

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[General Terms and Conditions](#)

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

Related Strains

All

By Allele

By Gene

By Collection



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