

**B6N.Cg-Kras<sup>tm4Tyj</sup>/CjDswJ**Stock No: **019104** 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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with an adenovirus encoding Cre results in a very high frequency of lung tumors and permits controlled timing of tumor initiation and tumor multiplicity. This strain may be useful in studies of cancer and development.

**Donating Investigator**

Terry Van Dyke, NIH

[R E A D M O R E +](#)**GENETIC OVERVIEW****Genetic Background****Generation***Kras<sup>tm4Tyj</sup>***Alele Type**

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

**Gene Symbol***Kras***Gene Name**

Kirsten rat sarcoma viral oncogene homolog

[V I E W G E N E T I C S](#)**RESEARCH APPLICATIONS**[V I E W A L L R E S E A R C H A P P L I C A T I O N S](#)

## 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

This strain carries a point mutation (G12D) whose expression is blocked by the presence of a loxP-flanked stop codon. Homozygotes die *in utero*. Cre-mediated recombination can excise the stop codon and permit the oncogenic protein to be expressed. Intranasal infection with an adenovirus encoding Cre results in a very high frequency of lung tumors and permits controlled timing of tumor initiation and tumor multiplicity. This strain may be useful in studies of cancer and development.

*In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. This is the case for the strain above. It should be noted that the phenotype could vary from that originally described. We will modify the strain description if necessary as published results become available.*

#### Development

#### Control Suggestions

#### Selected References

### Genetics

#### $Kras^{tm4Tyj}$

### Disease/Phenotype

#### Disease Terms

#### Research Areas By Phenotype

+ Mammalian Phenotype Terms by Genotype

+ References

## - Technical Support

### CONTACT TECHNICAL SUPPORT

#### Genotyping Protocols

Standard PCR:[Kras Alt1](#)

[Genotyping resources and troubleshooting](#)

#### Breeding Considerations

When maintained as a live colony, heterozygotes may be bred. Homozygotes are embryonic lethal.

[Additional Breeding and Husbandry Support](#)

#### Mating System

Heterozygote x Wild-type

Wild-type x Heterozygote

#### Citation

When using the B6N.Cg-Kras<sup>tm4Tyj</sup>/CjDswJ mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #019104 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 wild type for Kras<tm4Tyj>	\$2,854.50

## RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

B6N.Cg-Kras<tm4Tyj>/CjDswJ Frozen Embryo

\$2595.00

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## 🔍 Terms Of Use

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[General Terms and Conditions](#)

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[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)

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All

By Allele

By Gene

By Collection

All Related Strains





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