

## C57BL/6J-*Nek8*<sup>ick</sup> /J

Stock No: **002561** | juvenile cystic kidney

 Spontaneous Mutation

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

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These mice carry the *Nek8*<sup>ick</sup> spontaneous mutation characterized by polycystic kidney disease.

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## GENETIC OVERVIEW

Genetic Background

Generation

*Nek8*<sup>ick</sup>

Allele Type

Spontaneous

Gene Symbol

*Nek8*

Gene Name

NIMA (never in mitosis gene a)-related expressed kinase 8

VIEW GENETICS

## RESEARCH APPLICATIONS

Internal/Organ Research

Developmental Biology Research

VIEW ALL RESEARCH APPLICATIONS

## BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

## Details

### Detailed Description

Mice homozygous for the *Nek8*<sup>ick</sup> mutation develop polycystic kidney disease. Histology revealed that the kidneys of some 3 day old pups from heterozygous parents had small isolated cysts lined by cuboidal epithelial cells, and 15 day old pups had cysts lined by flattened epithelia. Disease is progressive but not evident by kidney palpation until at least 4 to 5 weeks of age. Homozygotes generally remain active until shortly before death and usually die between 20 and 25 weeks of age. Homozygous females are fertile but do not consistently care for their litters; homozygous males are fertile but decreased fertility is reported after 15 weeks of age. No histologic abnormalities were found in the liver, spleen, or pancreas. (Atala et al., 1993)

### Control Suggestions

### Selected References

## Genetics

### *Nek8*<sup>ick</sup>

## 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

Restriction Enzyme Digest: [Nek8](#)

Sanger sequencing: [Nek8](#)

End Point Analysis: [Nek8-EP](#)

[Genotyping resources and troubleshooting](#)

### Mating System

Heterozygote x Wild-type

Wild-type x Heterozygote

### Appearance

black

Related Genotype: *a/a*

### Citation

When using the juvenile cystic kidney mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #002561 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 Nek8<jck>	\$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.

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#### LICENSING INFORMATION

Phone: 207-288-6470

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

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All

By Allele

By Gene

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