

B6C3Fe *ala-bpck*/J

Stock No: 008044

 Deletion, 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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GENETIC OVERVIEW

Genetic Background

Generation

a

Allele Type

Spontaneous

Gene Symbol

a

Gene Name

nonagouti

bpck

Allele Type

Spontaneous

Gene Symbol

bpck

Gene Name

bilateral polycystic kidney deletion region

VIEW GENETICS

RESEARCH APPLICATIONS

Internal/Organ Research

Developmental Biology Research

Reproductive 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

Mice homozygous for the *bpck* deletion develop bilateral polycystic kidneys and die by 3 weeks of age. There is an increased incidence of hydrocephalus. Homozygotes can be identified by their smaller size and swollen abdomens. At 2 weeks of age elevated blood urea nitrogen is found. Ovaries and testes are smaller than normal and progression of maturing cells from spermatocytes to spermatids is disorganized at 3 weeks of age. The primary cilia on the kidney proximal tubule epithelial cells are dysmorphic and vary in length at birth and by 14 days of age cilia are significantly longer than normal. Through overlapping BAC rescues the polycystic kidney disease and hydrocephalus has been traced to the absence of the *Tmem67* gene. Although lacking some of the ancillary phenotypes associated with Meckel Syndrome Type 3 in humans, this deletion offers a model for that disease.

Development

Control Suggestions

Selected References

Genetics

a

bpck

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

QPCR:[bpck QPCR](#)

[Genotyping resources and troubleshooting](#)

Citation

When using the B6C3Fe *a/a-bpck/J* mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #008044 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 or Wild-type for bpck	\$2,854.50

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

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection



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TOMORROW'S CURES



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