

**B6C3-Npr2<sup>pwe</sup>/SacJ**

Stock No: **020812**

 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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female infertility/male subfertility. This strain may be useful for studying skeletal dysplasia (acromesomelic dysplasia Maroteaux type (AMDM)) and female infertility.

READ MORE +

## GENETIC OVERVIEW

Genetic Background

Generation

*Npr2<sup>pwe</sup>*

Alele Type

Gene Symbol

Gene Name

Spontaneous

*Npr2*

natriuretic peptide receptor 2

VIEW GENETICS

## RESEARCH APPLICATIONS

Internal/Organ Research

Developmental Biology Research

Reproductive Biology Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

V I E W P R I C E L I S T

## Details

### Detailed Description

NPR2 (natriuretic peptide receptor 2) is the primary receptor for C-type natriuretic peptide (CNP), which, when bound to ligand increases guanylyl cyclase activity. NPR2 is expressed in chondrocytes and osteoblasts. Mutations in NPR2 are associated with achondroplasia (ACH) and acromesomelic dysplasia Maroteaux type (AMDM). The spontaneous mutation peewee (*pwe*) is a 4 base pair deletion that results in a premature stop codon in the ligand binding domain. Mice homozygous for the mutation exhibit severe disproportionate dwarfism, a domed skull, short snout, and female infertility/male subfertility. Dwarfism is evident in the proximal skeleton beginning at 2 weeks of age. The femur and humerus are most affected. The skeletal defect is caused by a reduction in size of the hypertrophic and proliferative zones of the growth plate. In female mice, infertility is the result of premature oocyte meiotic resumption. This strain may be useful for studying skeletal dysplasia and female infertility.

### Development

### Control Suggestions

### Selected References

## Genetics

### *Npr2*<sup>pwe</sup>

## Disease/Phenotype

### Disease Terms

### Research Areas By Phenotype

### Mammalian Phenotype Terms by Genotype

- 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

End Point Analysis:[Npr2 End Point](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintained as a live colony, heterozygotes may be bred. Female homozygous mice are infertile and male homozygous mice are subfertile.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6C3-*Npr2<sup>dwe</sup>*/SacJ mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #020812 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 <i>Npr2</i> <pwe>	\$2,854.50

## RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

B6C3-Npr2<pwe>/SacJ

\$2595.00

## 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.

### Terms Of Use

#### TERMS OF USE

[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](mailto:TechTran@jax.org)

### Related Strains

All

By Allele

By Gene

By Collection



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