

C;STOCK *Npr2^{cn}* /J

Stock No: 003913 | achondroplasia

 Spontaneous Mutation

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applications related to the study of the molecular mechanism regulating endochondral ossification by CNP/natriuretic peptide receptor B signal.

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GENETIC OVERVIEW

Genetic Background

Generation

Npr2^{cn}

Alele Type

Spontaneous
(Null/Knockout)

Gene Symbol

Npr2

Gene Name

natriuretic peptide receptor 2

VIEW GENETICS

RESEARCH APPLICATIONS

Developmental Biology Research

VIEW ALL RESEARCH APPLICATIONS

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

Details

Detailed Description

The achondroplastic mouse is a spontaneous mutant characterized by disproportionate dwarfism with short limbs and tail due to disturbed chondrogenesis during endochondral ossification. This gene encodes a receptor for C-type natriuretic peptide (CNP) that positively regulates longitudinal bone growth by producing cGMP in response to CNP binding to the extracellular domain. Sequence analyses of the *Npr2* gene in homozygous mice revealed a T to G transversion leading to the amino acid substitution of highly conserved Leu with Arg in the guanylyl cyclase domain. The dwarf phenotype of homozygotes is thus caused by a loss-of-function mutation of the *Npr2* gene.

Development

Genetics

Npr2^{cn}

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

Sanger sequencing: [Npr2](#)

[Genotyping resources and troubleshooting](#)

Appearance

albino

Related Genotype: Tyr^f/Tyr^f

Citation

When using the achondroplasia mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #003913 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

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Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous or Homozygous for $Npr2^{cn}$, 1 pair minimum	\$2,854.50

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