

B6.129S6-*Nlrp3*^{tm1Bhk} /J

Stock No: **021302** | *Nlrp3*

 Congenic, Targeted Mutation

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Donating Investigator

Beverly H Koller, University of North Carolina at Chapel Hill

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GENETIC OVERVIEW

Genetic Background

000664 C57BL/6J

Generation

N10+pN2F8
(2021-04-01 00:00:00)

Nlrp3^{tm1Bhk}

Alele Type

Targeted (Null/Knockout)

Gene Symbol

Nlrp3

Gene Name

NLR family, pyrin domain containing 3

VIEW GENETICS

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research
Apoptosis Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$236.78 Domestic price for female 4-week

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

Details

Detailed Description

In this strain, a neo cassette replaces entire coding region of the NLR family, pyrin domain containing 3 (*Nlrp3*), abolishing expression. NLRP3 encodes the protein cryopyrin, which is a cytosolic nucleotide-binding domain and leucine-rich repeat containing (NLR) protein expressed in white blood cells and chondrocytes. Cryopyrin is involved in the formation of the inflammasome which regulates the immune system's response to injury, toxins, and infection by cleaving interleukin (IL)-1 β . NLRP3 mutations are known to cause autoinflammatory diseases known as cryopyrin-associated periodic syndromes (CAPS) such as MWS, familial cold autoinflammatory syndrome (FCAS), and neonatal onset multisystem inflammatory disease (NOMID). Homozygous *Nlrp3*-deficient mice are viable and fertile. These mice exhibit a decrease in lactate dehydrogenase (LDH) in the bronchoalveolar lavage (BAL) fluids. Bone marrow derived macrophages from these *Nlrp3*^{-/-} mice are not sensitive to the challenge by the bacteria peptidoglycan motif of muramyl dipeptide (MDP).

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. We may modify the strain description if necessary as published results become available.

Development

Control Suggestions

Selected References

Genetics

Nlrp3^{tm1Bhk}

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

Separated PCR:[Nlrp3](#)

[Genotyping resources and troubleshooting](#)

Dietary Information

LabDiet® 5K52 formulation (6% fat)

Breeding Considerations

When maintaining a live colony, homozygous mice may be bred together.

[Additional Breeding and Husbandry Support](#)

Mating System

Homozygote x Homozygote

Citation

When using the Nlrp3^{-/-} mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #021302 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX12 \(Maximum\)](#)

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AGE	SEX	GENOTYPE	PRICE
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	Male	Homozygous for Nlrp3 ^{tm1Bhk}	\$236.78
5 weeks	Female	Homozygous for Nlrp3 ^{tm1Bhk}	\$236.78
	Male	Homozygous for Nlrp3 ^{tm1Bhk}	\$236.78
6 weeks	Female	Homozygous for Nlrp3 ^{tm1Bhk}	\$236.78
	Male	Homozygous for Nlrp3 ^{tm1Bhk}	\$236.78
7 weeks	Female	Homozygous for Nlrp3 ^{tm1Bhk}	\$236.78
	Male	Homozygous for Nlrp3 ^{tm1Bhk}	\$236.78
8 weeks	Female	Homozygous for Nlrp3 ^{tm1Bhk}	\$236.78
	Male	Homozygous for Nlrp3 ^{tm1Bhk}	\$236.78

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.129S6-Nlrp3 ^{tm1Bhk} /J Frozen Embryo	\$2595.00
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LICENSING INFORMATION

Phone: 207-288-6470

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