

**B6N.129S1-*Mrgprb4*<sup>tm2.1And</sup>/J**

Stock No: **021076**

 Congenic, Targeted Mutation

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

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responsive promoter element (TRE; tetO), transcription of the gene of interest is activated in *Mrgprb4*-expressing dorsal root ganglions (DRGs). The introduction of doxycycline turns this expression off.

### Donating Investigator

David J Anderson, California Institute of Technology

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## GENETIC OVERVIEW

Genetic Background

Generation

*Mrgprb4*<sup>tm2.1And</sup>

### Alele Type

Targeted (Reporter,  
Null/Knockout)

### Gene Symbol

*Mrgprb4*

### Gene Name

MAS-related GPR, member B4

VIEW GENETICS

## RESEARCH APPLICATIONS

Neurobiology Research  
Sensorineural Research  
Research Tools

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

A rare population of unmyelinated sensory neurons express G protein-coupled receptor *Mrgprb4* (MAS-related GPR, member B4). These neurons exclusively innervate hairy skin with large terminal arborizations that resemble the receptive fields of C-tactile afferents in humans.

In these targeted knockin/knockout mice, the *Mrgprb4* promoter drives expression of a Tta-IRES-hPLAP cassette. The hPLAP marker is expressed constitutively in dorsal root ganglions (DRGs) and can be detected through histochemical methods.

Although not tested, it is anticipated that when hemizygotes are mated to a second strain carrying a gene of interest under the regulatory control of a tetracycline-responsive promoter element (TRE; tetO), expression of the target gene can be blocked by administration of the tetracycline analog, doxycycline (dox). These mice are a "Tet-Off" tool that allow the inducible expression of genes in *Mrgprb4*-expressing dorsal root ganglions (DRGs).

#### Development

#### Expression Data

#### Control Suggestions

### Genetics

#### *Mrgprb4*<sup>tm2.1And</sup>

## ⊖ Disease/Phenotype

+ Disease Terms

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+ Research Areas By Phenotype

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+ Mammalian Phenotype Terms by Genotype

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+ References

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## ⊖ 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

Standard PCR:[Mrgprb4](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

Heterozygotes are viable and fertile.

[Additional Breeding and Husbandry Support](#)

### Mating System

Heterozygote x Heterozygote

### Citation

When using the B6N.129S1-*Mrgprb4*<sup>tm2.1And</sup>/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #021076 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



Typically mice are recovered in 10-14 weeks. Contact Customer Service to

Cryo  
Recovery

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 Mrgprb4<tm2.1And>	\$2,854.50

### RELATED PRODUCTS AND SERVICES

<a href="#">Frozen Mouse Embryo</a>	B6N.129S1-Mrgprb4<tm2.1And>/J	\$2595.00
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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

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QUESTIONS ABOUT TERMS OF USE

### 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

## Related Strains

All

By Allele

By Gene

By Collection



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