The Jackson Laboratory

B6N.129(Cg)-*Pax6* ^{tm1Pgr} /J

Stock No: **027971** | Pax6-LacZ

Congenic, Targeted Mutation

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

PLACE ORDER

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box 6) gene. Mice homozygous for the mutation die shortly after birth. This strain may be useful for lineage tracing of *Pax6*$^{+}$ cells and for studying endocrine cell differentiation in early pancreatic development.

Donating Investigator

Dr. Peter Gruss, Max Planck Inst Biophysikalische Chemie

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GENETIC OVERVIEW

Genetic Background	Generation

Pax6^{tm1Pgr}

Allele Type	Gene Symbol	Gene Name
Targeted (Reporter, Null/Knockout)	*Pax6*	paired box 6

VIEW GENETICS

RESEARCH APPLICATIONS

Endocrine Deficiency Research
Neurobiology Research
Research Tools

VIEW ALL RESEARCH APPLICATIO

BASE PRICE

Starting at:

$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

Details

Detailed Description

Pax6, a member of the Pax family, encodes a homeobox and paired domain-containing protein that functions as a transcription factor and is expressed in pancreatic endocrine cells as well as the eye, nose and central nervous system. *Pax6-LacZ* KO mice contain a β-galactosidase gene that replaces the start codon and paired domain of the *Pax6* gene. β-galactosidase activity mimics endogenous *Pax6* expression and is detected in live embryos. Mice homozygous for mutation die shortly after birth and exhibit a phenotype similar to small eye mutants ($Pax6^{Sey}$); pups lack eyes and the olfactory bulb. In addition, the islets of Langerhans are disorganized and the glucagon-producing α cell lineage is eliminated. This strain may be useful for lineage tracing of $Pax6^{+}$ cells and for studying endocrine cell differentiation in early pancreatic development.

Development

Expression Data

Control Suggestions

Selected References

Genetics

$Pax6^{tm1Pgr}$

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols
Standard PCR:Pax6-Alternate 1
Genotyping resources and troubleshooting

Breeding Considerations

While maintaining a live colony, these mice are bred as heterozygotes. Mice homozygous for the mutation die shortly after birth.

Additional Breeding and Husbandry Support

Mating System
Wild-type x Heterozygote
Heterozygote x Wild-type

Citation
When using the Pax6-LacZ mouse strain in a publication, please cite the originating article(s) and include JAX stock #027971 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 wildtype for Pax6<tm1Pgr>	$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6N.129(Cg)-Pax6<tm1Pgr>/J Frozen Embryo	$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

QUESTIONS ABOUT TERMS OF USE

LICENSING INFORMATION

Phone: 207-288-6470
Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection

Choose other country or region

Did you find what you were looking for?

Yes No