

B6.129-Tulp3^{tm1Jng}/Pjn

Stock No: 005290 | Tulp3-

 Congenic, Targeted Mutation

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applications related to studies of sonic hedgehog (Shh) mediated signaling in embryonic development.

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GENETIC OVERVIEW

Genetic Background

000664 C57BL/6J

Generation

Tulp3^{tm1Jng}

Alele Type

Targeted (Reporter, Null/Knockout)

Gene Symbol

Tulp3

Gene Name

tubby-like protein 3

VIEW GENETICS

RESEARCH APPLICATIONS

Developmental Biology Research

Neurobiology 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

The tubby-like protein 3 (*Tulp3*) gene has been identified as a member of a small novel gene family that is primarily neuronally expressed, and is involved in the sonic hedgehog (Shh) and modulation of the Shh signaling pathway. Embryos homozygous for the *Tulp3*^{tm1Jng} mutant allele exhibit failure of neural tube closure, and die by embryonic day 14.5. Failure of cranial neural tube closure coincided with increased neuroepithelial apoptosis specifically in the hindbrain and the caudal neural tube. In addition, the number of betaIII-tubulin positive cells is significantly decreased in the hindbrain of *Tulp3*^{tm1Jng} (-/-) embryos. Some *Tulp3*^{tm1Jng} heterozygotes also manifest embryonic lethality with neuroepithelial cell death.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tulp3^{tm1Jng}

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
[Genotyping resources and troubleshooting](#)

Appearance
black
Related Genotype: *a/a*

Citation
When using the Tulp3- mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #005290 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



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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 Wild-type for Tulp3<tm1Jng>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.129-Tulp3<tm1Jng>/Pjn Frozen Embryos	\$2595.00
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Q U E S T I O N S A B O U T T E R M S O F U S E

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

☰ Related Strains

All

By Allele

By Gene

By Collection



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