

STOCK *Cntnap4*^{tm1Pele} /JStock No: **028636** | *Cntnap4*-eGFP 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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These mice may be useful for studying neuronal circuitry involved in some neuropsychiatric disorders.

Donating Investigator

Elior Peles, Weizmann Institute of Science

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GENETIC OVERVIEW

Genetic Background

Generation

Cntnap4^{tm1Pele}

Allele Type

Targeted (Reporter,
Null/Knockout)

Gene Symbol

Cntnap4

Gene Name

contactin associated protein-like 4

[VIEW GENETICS](#)

RESEARCH APPLICATIONS

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

The *Cntnap4-eGFP* knockin/knockout allele both abolishes contactin associated protein-like 4 (*Cntnap4*; also known as *Caspr4*) gene function and expresses enhanced green fluorescent protein, as well as a neo cassette in reverse orientation, from the *Cntnap4* promoter/enhancer elements. CASPR4 is a member of the neurexin family of neuronal cell adhesion proteins. Expressed in developing murine interneurons, this presynaptic protein is involved in both dopaminergic synaptic and GABAergic system transmission. CASPR4 has been associated with the onset of neurological disorders such as epilepsy, schizophrenia, and autism. Mice homozygous for this allele are viable and fertile. EGFP fluorescence is seen at P21 in 64% of all parvalbumin (PV)-expressing GABAergic interneurons. This increases to over 94% by P60. Loss of CASPR4 augments midbrain dopaminergic release in the nucleus accumbens, and synaptic defects in these disease-relevant neuronal populations are mirrored by elevated startle responses, abnormal pre-pulse inhibition, and over-grooming in both homozygous and heterozygous animals.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Cntnap4^{tm1Pele}

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

Standard PCR:[Cntnap4-Alternate 2](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

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

[Additional Breeding and Husbandry Support](#)

Mating System

Heterozygote x Heterozygote

Citation

When using the Cntnap4-eGFP mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #028636 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 Cntnap4<tm1Pele>	\$2,854.50

RELATED PRODUCTS AND SERVICES		
Frozen Mouse Embryo	STOCK Cntnap4<tm1Pele>/J Frozen Embryo	\$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

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[Use of MICE by companies or for-profit entities requires a license prior to shipping.](#)

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

☰ Related Strains

All

By Allele

By Gene

By Collection



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