

C57BL/6-*Efna3*^{tm1Ebp} /J

Stock No: 019108

 Coisogenic, 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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Donating Investigator

Elena Pasquale, Sanford-Burnham Medical Research Institu

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GENETIC OVERVIEW

Genetic Background

Generation

Efna3^{tm1Ebp}

Alele Type

Targeted (Reporter,
Null/Knockout)

Gene Symbol

Efna3

Gene Name

ephrin A3

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology 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

The ephrin-A3 knockout allele was designed to both abolish ephrin A3 (*Efna3*) gene function and express enhanced yellow fluorescent protein (EYFP) from the *Efna3* promoter/enhancer elements. A *fl*-flanked neo cassette is still present downstream of YFP. The DI reports that direct YFP fluorescence can not be detected. Ephrin A3 is a GPI-linked ligand for EphA receptors located in the perisynaptic processes of astrocytes. These homozygous ephrin-A3 mice are viable and fertile. They have an increase in glutamate transport in the hippocampus, as well as defects in hippocampal long term potentiation. They also contain irregular dendritic spines, and display learning and memory defects.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Efna3^{tm1Ebp}

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

QPCR: [Generic GFP/EGFP qPCR](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

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

[Additional Breeding and Husbandry Support](#)

Citation

When using the C57BL/6-*Efna3*^{tm1Ebp}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #019108 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 <i>Efna3</i> <tm1Ebp>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

C57BL/6-Efna3<tm1Ebp>/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.

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LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection



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