

B6(Cg)-*Celf6*^{tm1.2Jdd}/J
Stock No: **028389** | *Celf6*

 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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autism.

Donating Investigator

Nathaniel Heintz, The Rockefeller University

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GENETIC OVERVIEW

Genetic Background

Generation

Celf6^{tm1.2Jdd}

Alele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

Celf6

CUGBP, Elav-like family member 6

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research

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

Dysfunction of the serotonergic system is suspected in several neuropsychiatric diseases, including obsessive compulsive disorder and autism. Human data suggested polymorphisms in CUGBP Elav-like family member 6 (CEL6), an RNA binding protein expressed by serotonergic cells, may contribute to autism risk.

In this targeted mutant strain, exon 4 of *Celf6* has been excised in the germline to introduce a premature stop codon in all known isoforms of the mouse gene. As in the human mutation, this is predicted to result in a nonsense-mediated decay of mRNA.

Quantitative RT-PCR from mouse brain confirms a decrease of *Celf6* mRNA. Immunofluorescence confirms a loss of signal from cells in all regions of the brain, including raphe neurons. Germline knockout animals have deficits in autism-related behaviors including pup ultrasonic vocalization, alterations of brain serotonin levels, and alterations in reward processing (conditioned place preference). Otherwise, mice appear largely healthy, viable, and fertile with normal performance on many tasks.

Development

Control Suggestions

Selected References

Genetics

Celf6^{tm1.2Jdd}

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:[Celf6-Alternate 1](#)

Standard PCR:[Celf6-Alternate 1](#)

Standard PCR:[Celf6](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Homozygous and heterozygous mice are viable and fertile.

[Additional Breeding and Husbandry Support](#)

Citation

When using the *Celf6*⁻ mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #028389 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 Celf6<tm1.2Jdd>	\$2,854.50

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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

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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

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection



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