

B6;129S4-E2f1^{tm1Meg}/J
Stock No: **002785** | E2F-1

 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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resulting in increased proliferation and increased tumorigenesis. These mice may be useful in studies of apoptosis, cancer, thymocyte development/selection, diabetes, autoimmunity, and multiple sclerosis.

Donating Investigator

Dr. Michael E. Greenberg, Harvard Medical School

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GENETIC OVERVIEW

Genetic Background Generation

E2f1^{tm1Meg}

Allele Type	Gene Symbol	Gene Name
Targeted (Null/Knockout)	<i>E2f1</i>	E2F transcription factor 1

VIEW GENETICS

RESEARCH APPLICATIONS

Internal/Organ Research
Immunology, Inflammation and Autoimmunity Research
Cancer Research
Diabetes and Obesity Research
Apoptosis 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

Mice homozygous for defective *E2f1* are viable and fertile. They show thymocyte maturation defects due to a failure of apoptosis, eventually resulting in increased proliferation and increased tumorigenesis. As mutant mice age, they show exocrine gland dysplasia and testicular atrophy. Mutant mice develop a broad spectrum of cancers, although mammary carcinomas were not observed on this genetic background. Mutant mice are also protected from experimental autoimmune encephalomyelitis (EAE). These mice may be useful in studies of apoptosis, cancer, thymocyte development/selection, diabetes, autoimmunity, and multiple sclerosis.

Development

Control Suggestions

Selected References

Genetics

E2f1^{tm1Meg}

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:[E2f1](#)

Standard PCR:[E2f1](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

This strain is currently on a mixed C57BL/6 x 129 genetic backgrounds. Litter sizes are reported to be 5-6 pups for these mixed background mice. Homozygotes viable and fertile. Expected coat color from breeding: White Bellied Agouti

[Additional Breeding and Husbandry Support](#)

Appearance

white-bellied agouti

Related Genotype: A^W/A^W

Citation

When using the E2F-1⁻ mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #002785 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 for E2f1<tm1Meg>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6;129S4-E2f1<tm1Meg>/J Frozen Embryos	\$2595.00
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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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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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