The Jackson Laboratory

FVB-Tg(ACTA1-PABPN1*A17)1Drub/DrubJ

Stock No: **016193**

Coisogenic, Transgenic

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

PLACE ORDER

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Donating Investigator

Prof. David Rubinsztein, Cambridge Institute for Medical Research

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GENETIC OVERVIEW

Genetic Background **Generation**

Tg(ACTA1-PABPN1*A17)1Drub

Allele Type

Transgenic (Inserted expressed sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research

VIEW ALL RESEARCH APPLICATIO

BASE PRICE

Starting at:

$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

Details

Detailed Description

Mice hemizygous for the transgenic insert are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities until roughly four months of age. At four months, hemizygotes develop a progressive muscle weakness (measured by grip strength, wire maneuver and vertical gripping tests), which progresses to late onset locomoter defects around nine months of age. At nine months mice cannot lift their own body weight. They drag their pelvis when walking. There is no difference in body weight or mortality up to 15 months of age compared to controls. Hemizygotes develop KCl-insoluble inclusions containing PABPN1 in the nuclei of skeletal muscle fibers with tubulo-filamentous ultrastructures. The proportion of myocte nuclei with aggregates increases with age. Significantly elevated numbers of TUNEL-positive myocyte nuclei can be found at six and 12 months. TUNEL staining is widely used as a cell-death marker in muscle diseases in mice and humans. Muscles of hemizygotes contain increased numbers of centrally located nuclei and vacuoles compared to controls, which reflects the regenerative processes that can result from muscular dystrophy. This strain may prove useful as a model of human Oculopharyngeal Muscular Dystrophy and in Muscular Dystrophy or Codon Reiteration Disease research. This is the replacement line, obtained from the Donating Investigator, for FVB-Tg(ACTA1-PABPN1*A17)1Drub/J, Stock No. 006655.

Development

Expression Data

Control Suggestions

Genetics

Tg(ACTA1-PABPN1*A17)1Drub

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols
Standard PCR:Tg(ACTA1-PABPN1*A17)1Drub
Genotyping resources and troubleshooting

Breeding Considerations

When maintaining a live colony, these mice can be bred as hemizygotes. The Donating Investigator has not attempted to make the strain homozygous. Onset of the progressive muscle weakness and locomotor deficit phenotype is at 4 months of age in hemizygous animals.

Additional Breeding and Husbandry Support

Citation
When using the FVB-Tg(ACTA1-PABPN1*A17)1Drub/DrubJ mouse strain in a publication, please cite the originating article(s) and include JAX stock #016193 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	Hemizygous or Non carrier for Tg(ACTA1-PABPN1*A17)1Drub	$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	FVB-Tg(ACTA1-PABPN1*A17)1Drub/DrubJ 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.

Terms Of Use

TERMS OF USE

General Terms and Conditions

QUESTIONS ABOUT TERMS OF USE

LICENSING INFORMATION

Phone: 207-288-6470
Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection

Did you find what you were looking for?

Yes No