FVB/NJ

Stock No: 001800

Inbred Strain

READILY AVAILABLE

PLACE ORDER

Readily available in any quantity needed.

Overview

Also Known As: Friend Virus B NIH Jackson, FVB

FVB/NJ are a widely used multipurpose inbred strain. Due to the prominent pronuclei in their fertilized eggs and the large litter size, FVB/NJ are commonly used for transgenic injection. FVB/NJ mice are homozygous for the retinal degeneration 1 allele of Pde6b rd1, resulting in blindness by wean age.
**GENETIC OVERVIEW**

**Genetic Background**

**Generation**

Contact Technical Support
(2018-07-27 00:00:00)

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**RESEARCH APPLICATIONS**

Research Tools
Sensorineural Research
Immunology, Inflammation and Autoimmunity Research
Mouse/Human Gene Homologs

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**BASE PRICE**
Starting at:

$22.27 Domestic price for male 3-week

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**Details**

**Important Note**
This strain is homozygous for the retinal degeneration allele Pde6b<sup>rd1</sup>.

**Detailed Description**
FVB/NJ was inbred for the Fv1<sup>B</sup> allele which confers sensitivity to the Friend Leukemia virus B strain. Due to the prominent pronuclei in their fertilized eggs and the large litter size, FVB/NJ mice are commonly used for transgenic injection. Compared to many other inbred strains, FVB/NJ is highly susceptible to asthma-like airway responsiveness with significant generation of antigen-specific IgE. Despite having the H<sup>2</sup><sup>D</sup> MHC haplotype, FVB/NJ are resistant to collagen-induced arthritis. This resistance stems from coding polymorphisms in Tcra-V11.1 and a genomic deletion of some Tcrb-V genes that includes Tcrb-V8.2. FVB/NJ have higher than average activity, anxiety, and basal body temperature, low stress-induced hyperthermia, and are homozygous for the Pde6b<sup>rd1</sup> allele, which results in early onset retinal degeneration. Although FVB/N typically do not develop spontaneous tumors, they are highly susceptible to chemically induced squamous cell carcinomas with a high rate of malignant conversion from papilloma to carcinoma. For more information, please refer to Michael Festing’s Index of Inbred Strain Characteristics.

**Development**
Genotyping Protocols
Genotyping resources and troubleshooting
Inbred mouse strains are maintained through sibling (sister x brother) matings; no genotyping required.

Dietary Information
LabDiet® 5K52 formulation (6% fat)

Breeding Considerations

This strain is an exceptional breeder.

Additional Breeding and Husbandry Support

Mating System
Sibling x Sibling

Appearance
albino
Related Genotype: A/A Tyr<sup>C</sup>/Tyr<sup>C</sup>

Citation
When using the FVB/NJ mouse strain in a publication, please include JAX stock #001800 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level descriptions
- MP16 (Standard)
- RB09 (Maximum)
- EM02 (Maximum)
- MP14 (Maximum)
- RB15 (Maximum)

Pricing & Availability

Readily available in any quantity needed.

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### Volume Pricing Details

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**Volume Pricing Program**

Quantities: Volume pricing is automatically applied when a minimum quantity per strain for a shipment is reached.

Sexes: Sexes of the same strain may be combined to reach minimum quantity levels to receive the volume pricing.

Shipment: All shipping destinations qualify.

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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 is 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.

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