FVB/NJ

Stock No: 001800

Inbred Strain

READILY AVAILABLE

PLACE ORDER

Readily available in any quantity needed.

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<sup>rd1</sup>, resulting in blindness by wean age.

READ MORE +

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Technical Support</td>
<td></td>
</tr>
</tbody>
</table>
RESEARCH APPLICATIONS
Research Tools
Sensoneural Research
Immunology, Inflammation and Autoimmunity Research
Mouse/Human Gene Homologs

BASE PRICE
Starting at:

$21.62 Domestic price for male 3-week

Volume Pricing Available!
for select shipping destinations
Click for Details

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 H2<sup>d</sup> MHC haplotype, FVB/NJ are resistant to collagen-induced arthritis. This resistance stems from coding polymorphisms in Tcrα-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

Selected References
Genetics

- Bfsp2<sup>Spindee</sup>
- Gpr84<sup>del</sup>
- H<sup>c</sup>
- Disc1<sup>del</sup>
- Mx1<sup>st</sup>
- Pde6b<sup>dl</sup>
- mt-Atp8<sup>ml</sup>
- Fv1

Disease/Phenotype

- Disease Terms
- Research Areas By Genotype
- Mammalian Phenotype Terms by Genotype
- Phenotype Information
- References

Technical Support

CONTACT TECHNICAL SUPPORT

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
Animal Health Reports
When using the FVB/NJ mouse strain in a publication, please include JAX stock #001800 in your Materials and Methods section.
Facility Barrier Level Descriptions
- MP16 (Standard)
- RB09 (Minimum)
- MP14 (Maximum)
- RB15 (Maximum)

Pricing & Availability
Readily available in any quantity needed.

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<th>GENOTYPE</th>
<th>PRICE</th>
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### Volume Pricing Details

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<th>QUANTITY</th>
<th>VOLUME PRICING</th>
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### Volume Pricing Program

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

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Related Strains

- All
- By Allele
- By Gene