FVB/NJ
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.
RESEARCH APPLICATIONS

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

BASE PRICE
Starting at:
$22.27 Domestic price for male 3-week

Volume Pricing Available!
for select shipping destinations
Click for Details

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

Detailed Description
FVB/NJ was inbred for the Fv<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>I<sup>m</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

Selected References
Genetics

- Bfsp2Dundee
- Gpr84del
- Hc0
- Disc1del
- Mx1s1
- Pde6brd1
- Tyro3m1
- Cox7a2l
- mt-Atp8m1
- Fv1

Disease/Phenotype

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

Technical Support
Genotyping Protocols
Sanger sequencing: H2 rs50413633
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)
- RB15 (Maximum)
- RB09 (Maximum)
- EM02 (Maximum)

Readily Available

Pricing & Availability

Readily available in any quantity needed.

Domestic International
Pricing effective for USA, Canada and Mexico shipping destinations

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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

**Related Products and Services**

| Mouse ES Cells | FVB/NJ-PB84.3 mES cells | $695.00 |

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Terms Of Use

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

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