

**BPL/1J**

Stock No: **003006**

 **Inbred Strain**

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## GENETIC OVERVIEW

**Genetic Background**

**Generation**

F53+pF7  
(2021-04-06 00:00:00)

VIEW GENETICS

## RESEARCH APPLICATIONS

Cardiovascular Research

VIEW ALL RESEARCH APPLICATIONS

## BASE PRICE

Starting at:

\$152.00 Domestic price for female

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## Details

### Detailed Description

The hypertensive BPH/2 mice (#003005) have elevated systolic blood pressures at five weeks and by 150 days differ from the BPL/1 by 60 mmHg. The BPH/2 strain has a higher heart rate, larger hearts and kidneys, and higher hematocrits than the BPL/1. It also has lower renin, aldosterone and angiotensin I levels compared to the BPL/1 and BPN/3 (#003004). The original HBP (high blood pressures) and LBP (low blood pressure) selected lines showed a number of biochemical and physiological differences which have not been reexamined in the inbred strains. These include differences in brain catecholamines, calmodulin concentrations, heat sensitivity, alcohol preference, and longevity. The differences in longevity were striking. The hypotensive selected lines lived two to three hundred days longer, on average, than the hypertensive selected line. Biometrical genetic analysis suggested that three to five genes are responsible for the difference in blood pressure between the BPH/2 and BPL/1. A recent genome scan of an F2 from a BPH/2 x BPL/1 cross found three chromosome locations that cosegregated with blood pressure. Two of these sites were verified by candidate gene cosegregation: angiotensinogen on chromosome 8 and mouse kallikrein binding protein on chromosome 12.

### Development

### Control Suggestions

### Selected References

## Genetics

Currently there are no related genes or alleles for this strain.

## Disease/Phenotype

### Disease Terms

### Research Areas By Phenotype

### Mammalian Phenotype Terms by Genotype

### Phenotype Information

### 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

[Genotyping resources and troubleshooting](#)

### Dietary Information

LabDiet® 5K52 formulation (6% fat)

### Mating System

Sibling x Sibling

### Appearance

misty toned gray

Related Genotype: unknown

### Citation

When using the BPL/1J mouse strain in a publication, please include JAX stock #003006 in your Materials and Methods section.

### Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [FGB29 \(Standard\)](#)

## Pricing & Availability



Live mice available in varying quantities. Ask Customer Service for details.

Available

### Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

#### LIVE MOUSE

AGE	SEX	PRICE
Approx 4-8 weeks	Female	\$152.00
	Male	\$152.00

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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 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.

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#### LICENSING INFORMATION

Phone: 207-288-6470

Email: [TechTran@jax.org](mailto:TechTran@jax.org)

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By Allele

By Gene

By Collection






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