

B6.MRL-Fas^{lpr} /J

Stock No: 000482 | B6 lpr

 Congenic, Spontaneous Mutation

Sized to accommodate orders of up to 10 or more with age range. Ask Customer Service for details.

PLACE ORDER

[Email](#) [Download PDF](#) [Help](#)



Also Known As: B6-lymphoproliferation, B6 lpr

Mice homozygous for the lymphoproliferation spontaneous mutation (*Fas^{lpr}*) show systemic autoimmunity, massive lymphadenopathy associated with proliferation of aberrant T cells, arthritis, and immune complex glomerulonephrosis. These mice serve as a model for systemic lupus erythematosus-like autoimmune syndromes.

READ MORE +

GENETIC OVERVIEW

Genetic Background

000664 C57BL/6J

Generation

[Contact Technical Support](#)
(2019-05-22 00:00:00)

Fas^{lpr}

Allele Type

Spontaneous (Hypomorph)

Gene Symbol

Fas

Gene Name

Fas (TNF receptor superfamily member 6)

VIEW GENETICS

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research
Apoptosis Research
Cancer Research
Mouse/Human Gene Homologs

[VIEW ALL RESEARCH APPLICATIONS](#)

BASE PRICE

Starting at:

\$126.58 Domestic price for female 3-week

[VIEW PRICE LIST](#)

Details

Detailed Description

Mice homozygous for the lymphoproliferation spontaneous mutation (Fas^{lpr}) show systemic autoimmunity, massive lymphadenopathy associated with proliferation of aberrant T cells, arthritis, and immune complex glomerulonephrosis. Onset and severity of symptoms associated with the Fas^{lpr} allele is strain-dependent. For example, lymphoproliferation varies greatly with congenic strain C57BL/6J- Fas^{lpr}/Fas^{lpr} at a 24 fold increase over control lymph node weight, MRL/Mp- Fas^{lpr}/Fas^{lpr} at 75 fold and congenic strain C3H/HeJ- Fas^{lpr}/Fas^{lpr} highest at 116 fold increase over control lymph node weight (Morse et al 1985). Variance in renal pathology ranks from extensive in MRL/Mp- Fas^{lpr}/Fas^{lpr} at 4 to 7 months to negligible at 14 to 16 months in mice with C57BL/6J and C3H/HeJ backgrounds and homozygous for Fas^{lpr} (Kelley and Roths 1985). Spontaneous production of anti-dsDNA autoantibodies is likewise affected with percentage binding of radiolabeled dsDNA in Fas^{lpr}/Fas^{lpr} mice varying from 5 percent on C57BL/6J to 26 percent on C3H/HeJ to as high as 49 percent on MRL/Mp (Izui et al 1984). Female MRL/Mp- Fas^{lpr} mice die at an average age of 17 weeks of age and males at 22 weeks. This compares to between 42 and 52 weeks in females on the C57BL/6J or C3H/HeJ background (Roths 1987). This mouse is a model for systemic lupus erythematosus-like autoimmune syndromes.

In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. This is the case for the strain above. It should be noted that the phenotype could vary from that originally described. We will modify the strain description if necessary as published results become available.

Control Suggestions

[+ Selected References](#)

[- Genetics](#)

[+ *Fas^{lpr}*](#)

[- Disease/Phenotype](#)

[+ Disease Terms](#)

[+ Research Areas By Phenotype](#)

[+ Mammalian Phenotype Terms by Genotype](#)

[+ 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

Standard PCR:[Fas](#)

Standard PCR:[Fas MCA](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

[This strain is a good breeder.](#)

[Additional Breeding and Husbandry Support](#)

Mating System

Homozygote x Homozygote

Appearance

black

Related Genotype: *a/a*

Citation

When using the B6 lpr mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #000482 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX4 \(Standard\)](#)

🔴 Pricing & Availability



Available Now

Sized to accommodate orders of up to 10 or more with age range. Ask Customer Service for details.

Domestic **International**

Pricing effective for USA, Canada and Mexico shipping destinations

LIVE MOUSE			
AGE	SEX	GENOTYPE	PRICE
3 weeks	Female	Homozygous for Fas ^{lpr}	\$126.58
	Male	Homozygous for Fas ^{lpr}	\$126.58
4 weeks	Female	Homozygous for Fas ^{lpr}	\$126.58
	Male	Homozygous for Fas ^{lpr}	\$126.58
5 weeks	Female	Homozygous for Fas ^{lpr}	\$126.58
	Male	Homozygous for Fas ^{lpr}	\$126.58
6 weeks	Female	Homozygous for Fas ^{lpr}	\$130.23
	Male	Homozygous for Fas ^{lpr}	\$130.23
7 weeks	Female	Homozygous for Fas ^{lpr}	\$133.88
	Male	Homozygous for Fas ^{lpr}	\$133.88
8 weeks	Female	Homozygous for Fas ^{lpr}	\$137.53
	Male	Homozygous for Fas ^{lpr}	\$137.53

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](#)

Q U E S T I O N S A B O U T T E R M S O F U S E

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection





DO YOU NEED BALB/c MICE?

Rely on JAX to provide the models you need, when you need them.

[LEARN MORE](#)



CONTACT



DONATE



SUBSCRIBE

[JAX HOME](#) [CAREERS](#) [LEGAL INFORMATION](#)

[RESEARCH CENTERS](#) [MOUSE GENOME INFORMATICS](#)

[MOUSE PHENOME DATABASE](#)

Leading the search for

TOMORROW'S CURES



©2021 THE JACKSON LABORATORY

Choose other country or region

[^](#) [E](#) [E](#) [E](#) [D](#) [B](#)

Did you find what you were looking for?

Yes No