


B6129SF1/JStock No: **101043** **F1 Or F2 Hybrid**

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These F1 (first filial generation) hybrid mice are the offspring of a cross between C57BL/6J females (B6) and 129S1/SvImJ males (129S). Uses include hybrid vigor, as a background for deleterious mutations, to create or enhance expression of polygenic diseases, to determine the mode of inheritance, to provide physiological buffering (present a broader array of responses to various stresses) and as approximate controls for some genetically engineered strains.

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GENETIC OVERVIEW

Genetic Background**Generation**[VIEW GENETICS](#)

RESEARCH APPLICATIONS

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BASE PRICE

Starting at:

\$35.85 Domestic price for male 3-week

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Details

Detailed Description

These F1 (first filial generation) hybrid mice are the offspring of a cross between C57BL/6J females (B6) and 129S1/SvImJ males (129S). F1 hybrid mice are heterozygous at all loci (assuming the parental strains have different alleles), and like inbred mice they are genetically and phenotypically uniform. F1 hybrids are often used for hybrid vigor, as a background for some deleterious mutations, for tissue transplantation, to determine the mode of inheritance, to create or enhance expression of polygenic diseases, and to provide physiological buffering (present a broader array of responses to various stresses). B6129 hybrid crosses often provide approximate controls for genetically engineered strains that were generated with 129-derived embryonic stem cells and maintained on a mixed B6;129 background.

Development

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](#)

Hybrid mice are produced from breeding two different inbred strains together (F1) or the breeding of hybrids together (F2); no genotyping required.

Dietary Information

LabDiet® 5K52 formulation (6% fat)

Breeding Considerations

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

[Additional Breeding and Husbandry Support](#)

Appearance

white-bellied agouti

Related Genotype: A^W/a

Citation

When using the B6129SF1/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #101043 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [MP14 \(Maximum\)](#)

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LIVE MOUSE			
AGE	SEX	GENOTYPE	PRICE
3 weeks	Female	Not Applicable	\$36.38
	Male	Not Applicable	\$35.85
4 weeks	Female	Not Applicable	\$36.78
	Male	Not Applicable	\$36.25
5 weeks	Female	Not Applicable	\$39.15
	Male	Not Applicable	\$37.02
6 weeks	Female	Not Applicable	\$41.19
	Male	Not Applicable	\$39.76
7 weeks	Female	Not Applicable	\$43.97
	Male	Not Applicable	\$42.45
8 weeks	Female	Not Applicable	\$44.88
	Male	Not Applicable	\$44.52
9 weeks	Female	Not Applicable	\$47.60
	Male	Not Applicable	\$47.21
10 weeks	Female	Not Applicable	\$52.38
	Male	Not Applicable	\$50.55

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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.

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LICENSING INFORMATION

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Email: TechTran@jax.org

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By Allele

By Gene

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