



129S1 / SvImJ

Stock No: 002448 | 129S1

 Inbred Strain



READILY AVAILABLE

PLACE ORDER

Sized to accommodate orders of up to 100 or more. Ask Customer Service for details.

 Overview





Also Known As: 129S1

129 mice are widely used in the production of targeted mutations due to the availability of multiple embryonic stem cell lines derived from them. They also have a high incidence of spontaneous testicular teratomas.

[READ MORE +](#)

GENETIC OVERVIEW

Genetic Background

Generation

[Contact Technical Support](#)
(2019-04-23 00:00:00)

[VIEW GENETICS](#)

RESEARCH APPLICATIONS

Reproductive Biology Research
Cancer Research
Research Tools
Neurobiology Research

[VIEW ALL RESEARCH APPLICATIONS](#)

BASE PRICE

Starting at:

\$44.09 Domestic price for female 3-week

[VIEW PRICE LIST](#)

Details

Detailed Description

Historically, the 129 inbred mice are known for the high incidence of spontaneous testicular teratomas, though the incidence differs between substrains.(1-3% in 129 parental substrains; 30% in teratoma substrains.) More recently, 129 mice are widely used in the production of targeted mutations due to the availability of multiple embryonic stem cell lines derived from them. There is major genetic variation within the 129 "family", which has led to an update of the nomenclature and a division of the substrains into three major groups: parental substrains (129P), steel substrains (129S) and "teratoma" substrains (129T). Investigators using 129 substrains for targeted mutagenesis should be careful in the selection of the appropriate 129 substrain to match the embryonic stem cell line. For a complete history of the numerous 129 substrains, see Simpson, *et al.*, 1997.

This inbred strain has a nonsense mutation in *Trem2* affecting codon 148 (dbSNP ID: rs107649577 [[Ensembl GRCm38.p6](#)]).

Development

Selected References

Genetics

Disc1^{del}

Cox7a2^l

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

Phenotype Information

References

Technical Support

CHAT OFFLINE

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

End Point Analysis:[H2^b-EP](#)

Sanger sequencing:[H2^b](#)

[Genotyping resources and troubleshooting](#)

Inbred mouse strains are maintained through sibling (sister x brother) matings; no genotyping required.

Breeding Considerations

This strain is a good breeder.

[Additional Breeding and Husbandry Support](#)

Mating System

Sibling x Sibling

Appearance

white-bellied agouti

Related Genotype: A^w/A^w

Citation

When using the 129S1 mouse strain in a publication, please include JAX stock #002448 in your Materials and Methods section.

[Facility Barrier Level Descriptions](#)

 [MP14 \(Maximum\)](#)

 [RB16 \(Maximum\)](#)

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Live Mouse			
AGE	SEX	GENOTYPE	PRICE
3 weeks	Female	Not Applicable	\$44.09
	Male	Not Applicable	\$44.09
4 weeks	Female	Not Applicable	\$44.09
	Male	Not Applicable	\$44.09
5 weeks	Female	Not Applicable	\$45.85
	Male	Not Applicable	\$45.85
6 weeks	Female	Not Applicable	\$51.67
	Male	Not Applicable	\$51.67
7 weeks	Female	Not Applicable	\$51.67
	Male	Not Applicable	\$51.67
8 weeks	Female	Not Applicable	\$51.67
	Male	Not Applicable	\$51.67
9 weeks	Female	Not Applicable	\$52.96
	Male	Not Applicable	\$51.67

10 weeks	SEX	Not Applicable	\$60.68
		Not Applicable	\$60.68
11 weeks	Male	Not Applicable	\$60.68

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Phone: 207-288-6470

Email: TechTran@jax.org

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