Overview

129S1/SlmJ

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.
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.

GENETIC OVERVIEW

Genetic Background

Generation

Contact Technical Support
(2019-04-23 00:00:00)

RESEARCH APPLICATIONS

Reproductive Biology Research
Cancer Research
Research Tools
Neurobiology Research

BASE PRICE

Starting at:

$44.09 Domestic price for female 3-week
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 \textit{Trem2} affecting codon 148 (dbSNP ID: rs107649577 [Ensembl GRCm38.p6]).
Genotyping Protocols
End Point Analysis: H<sup>2</sup><sup>β</sup>-EP
Sanger sequencing: H<sup>2</sup><sup>β</sup>

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<sup>w</sup>/A<sup>w</sup>

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

Animal Health Reports

Facility Barrier Level Descriptions
- MP14 (Maximum)
- RB16 (Maximum)

Pricing & Availability

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### Live Mouse

<table>
<thead>
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<th>AGE</th>
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