129S4/SvJaeJ

Stock No: 009104

Inbred Strain

PLACE ORDER

0–2 week average lead time for 10 or more mice with age range

This substrain of 129, from the steel group of 129 substrains (129S), is a common source of embryonic stem cell lines used in development of targeted mutations. 129 inbred mice are known for the high incidence of spontaneous testicular teratomas.

Donating Investigator

Dr. Rudolf Jaenisch, Whitehead Institute (MIT)

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td></td>
<td>F1×F24</td>
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RESEARCH APPLICATIONS

Research Tools

BASE PRICE

Starting at:

$183.00 Domestic price for female 4-week

VIEW ALL RESEARCH APPLICATIONS

VIEW PRICE LIST
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.

129S4/SvJae has been used to develop multiple embryonic stem cell lines including: J1, LW1, and RF8.

Development

Control Suggestions

Genetics

Disc1<sup>del</sup>

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

Phenotype Information

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols
Genotyping resources and troubleshooting

Dietary Information
LabDiet® 5K52 formulation (6% fat)
**Mating System**
Sibling x Sibling

**Appearance**
white-bellied agouti
Related Genotype: $A^w/A^w$

**Citation**
When using the 129S6/SvJae mouse strain in a publication, please include JAX stock #009104 in your Materials and Methods section.

**Animal Health Reports**
Facility Barrier Level Descriptions
- AX10 (Standard)

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**Pricing & Availability**
0–2 week average lead time for 10 or more mice with age range

**Repository Live**

### Domestic International
Pricing effective for USA, Canada and Mexico shipping destinations

<table>
<thead>
<tr>
<th>AGE</th>
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**Related Products and Services**

| Frozen Mouse Embryo | $2,595.00 per straw or vial |

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