Overview

This is a substrain of the 129 family that does not carry the teratoma gene (Dnd1).

Reproductive Biology Research
Cancer Research
Mouse/Human Gene Homologs
Research Tools
Dermatology Research
Developmental Biology Research

BASE PRICE

Starting at:

$2,854.50 Domestic price Cryo Recovery
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).

The teratoma family of 129 sublines was derived from an outcross of the parental 129/Sv to a hybrid (WC x C57BL/6) to introduce the dominant spotting mutation (Kit<sup>W</sup>). After 8 generations of backcrossing to 129/Sv a higher incidence of testicular teratomas was observed. The subline became the 129T1/Sv-Oca2<sup>+</sup> Tyr<sup>c-ch</sup> Dnd1<sup>ter</sup> J substrain (Stock No. 000091). In 1992 E.M. Simpson selected against the ter allele to establish the present substrain which was transferred to the Jackson Laboratory in 1993.

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.
Technical Support

Genotyping Protocols
Genotyping resources and troubleshooting

Breeding Considerations

This strain is a challenging breeder.

Additional Breeding and Husbandry Support

Appearance
light-bellied agouti chinchilla
Related Genotype: $A^w/A^w\ Tyr^{ch}/Tyr^{ch}$

Citation
When using the 129T2/SvEmsJ mouse strain in a publication, please include JAX stock #002065 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, **G200**

Pricing & Availability

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

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<th>SERVICE/PRODUCT</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
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<tr>
<td>Cryo Recovery</td>
<td>Inbred, 1 pair minimum will be supplied</td>
<td>$2,854.50</td>
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Terms Of Use

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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains