Overview
Also Known As: 129T2
This is a substrain of the 129 family that does not carry the teratoma gene ($Dnd1^{Ter}$).
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\(^W\)). After 8 generations of backcrossing to 129/Sv a higher incidence of testicular teratomas was observed. The subline became the 129T1/Sv-Oca2\(^+\) Tyr\(^c-ch\) Dnd1\(^ter\)/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.
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: $A^w A^w \text{Tyr}^{c-ch} / \text{Tyr}^{c-ch}$

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

Animal Health Reports
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.

Cryorecovery - Domestic Pricing

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<tr>
<th>SERVICE</th>
<th>GENOTYPE</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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We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryorecovery to establish a Dedicated Supply for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

| Related Products and Services | 129T2/SvEmsJ Frozen Embryos | $2595.00 |

Payment Terms and Conditions

Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

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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.
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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains