Historically, the 129 inbred mice are known for the high incidence of spontaneous testicular teratomas, though the incidence differs between 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. 129P3/J is one of the parental substrains.

**GENETIC OVERVIEW**

**Genetic Background**

129P3/J is one of the parental substrains.

**CONTACT TECHNICAL SUPPORT**

(2018-07-27 00:00:00)

**RESEARCH APPLICATIONS**

**Research Tools**
- Metabolism Research
- Neurobiology Research
- Sensorineural Research
- Cancer Research
- Cardiovascular Research
- Reproductive Biology Research

**BASE PRICE**

Starting at:

$107.72 Domestic price for male 3-week

**DETAILS**

**Important Note**

This strain is homozygous for *Cdh23<sup>ahl</sup>*, the age related hearing loss 1 mutation, which on this background results in progressive hearing loss with onset prior to three months of age.

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

Dietary Information
LabDiet® 5K52 formulation (6% fat)

Breeding Considerations
This strain is a challenging breeder.

Additional Breeding and Husbandry Support

Mating System
Sibling x Sibling
Appearance
pink-eyed, light-bellied, light chinchilla
Related Genotype: $A^{w}/A^{w}$ $Oca2^{b}$ $Tyr^{c\text{-}ch}$/Oca2^{b} $Tyr^{c}$

pink-eyed, light-bellied, chinchilla
Related Genotype: $A^{w}/A^{w}$ $Oca2^{b}$ $Tyr^{c\text{-}ch}$/Oca2^{b} $Tyr^{c\text{-}ch}$

albino
Related Genotype: $A^{w}/A^{w}$ $Oca2^{b}$ $Tyr^{c}$/Oca2^{b} $Tyr^{c}$

Citation
When using the 129P3/J mouse strain in a publication, please include JAX stock #000690 in your Materials and Methods section.

Pricing & Availability
Sized to accommodate orders of up to 10 or more with age range. Ask Customer Service for details.

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All

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