

**B6.129X1-Id1<sup>tm1Xhsu</sup>/J**Stock No: **009081** **Congenetic, Targeted Mutation**

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

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fluorescent monitoring of Id1 expression in the bone marrow (granulocyte and macrophage progenitors as well as downstream myeloid lineage cells) and may be useful for studying long-term repopulating hematopoietic stem cell maintenance and myeloid-versus-lymphoid lineage decisions.

### Donating Investigator

Xiao-Hong Sun, Oklahoma Medical Research Foundation

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## GENETIC OVERVIEW

**Genetic Background****Generation***Id1<sup>tm1Xhsu</sup>***Alele Type**Targeted (Reporter,  
Null/Knockout)**Gene Symbol***Id1***Gene Name**

inhibitor of DNA binding 1

[VIEW GENETICS](#)

## RESEARCH APPLICATIONS

Developmental Biology Research

Research Tools

Hematological Research

Immunology, Inflammation and Autoimmunity Research

[VIEW ALL RESEARCH APPLICATIONS](#)

## BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

V I E W P R I C E L I S T

### Details

#### Important Note

Because the  $Id1^{GFP}$  mutation originated in 129X1-derived ES cells that harbor the agouti allele (of the nonagouti locus) nearby on chromosome 2, homozygous mutant mice will likely have agouti coat color.

#### Detailed Description

Homozygous  $Id1/GFP$  mice ( $Id1^{GFP/GFP}$ ) are viable and fertile; harboring an enhanced green fluorescent protein (EGFP) "knock-in" allele that both abolishes endogenous  $Id1$  gene function and expresses EGFP from the  $Id1$  promoter/enhancer elements. As such, EGFP fluorescence is directed to  $Mac1^+ /Ly6G^+$  myeloid lineage bone marrow cells (although rare fluorescence is reported in  $B220^+$  and/or  $CD19^+$  bone marrow cells). Homozygotes exhibit decreased long-term repopulating of hematopoietic stem cell (HSC) populations and a ~40% reduction in SLAM positive HSC. These  $Id1/GFP$  mutant mice allow fluorescent monitoring of  $Id1$  expression in the bone marrow (granulocyte and macrophage progenitors as well as downstream myeloid lineage cells) and may be useful for studying HSC maintenance and myeloid-versus-lymphoid lineage decisions.

*NOTE:: Because the  $Id1^{GFP}$  mutation originated in 129X1-derived ES cells that harbor the agouti allele (of the nonagouti locus) nearby on chromosome 2, homozygous mutant mice will likely have agouti coat color.*

#### Development

#### Expression Data

#### Control Suggestions

#### Selected References

### Genetics

#### $Id1^{tm1Xhsu}$

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## – Disease/Phenotype

+ [Disease Terms](#)

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+ [Research Areas By Phenotype](#)

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+ [Mammalian Phenotype Terms by Genotype](#)

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+ [References](#)

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## – Technical Support

C O N T A C T   T E C H N I C A L   S U P P O R T

### Genotyping Protocols

Standard PCR:[Id1 STD PCR](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

When maintaining a live colony, homozygous mice may be bred together. Because the  $Id1^{GFP}$  mutation originated in 129X1-derived ES cells that harbor the agouti allele (of the nonagouti locus) nearby on chromosome 2, homozygous mutant mice will likely have agouti coat color.

[Additional Breeding and Husbandry Support](#)

### Citation

When using the B6.129X1- $Id1^{tm1Xhsu}$ /J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #009081 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](#)*

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## – Pricing & Availability



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

## Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

### CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous for Id1<tm1Xhsu>	\$2,854.50

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