



# STOCK *tm<sup>fl</sup>(cre/ERT2)Alj* / J

Stock No: 007913 | Gli1-CreER<sup>T2</sup>

Targeted Mutation



AVAILABLE

PLACE ORDER

Live mice available in varying quantities. Ask Customer Service for details.

## Overview

### Also Known As: Gli1-CreER<sup>T2</sup>

When these Gli1-CreER<sup>T2</sup> mice are bred with mice containing a *loxP*-flanked sequence of interest, tamoxifen-inducible, Cre-mediated recombination will result in deletion of the flanked sequences in Gli1 expressing cells; making them useful for studying axis patterning, proliferation, and cell fate specification of Hedgehog responding cells at different stages of embryogenesis.

### Donating Investigator

Dr. Alexandra L Joyner, Memorial Sloan-Kettering Cancer Center

READ MORE +

## GENETIC OVERVIEW

Genetic Background      Generation  
?+pN2F8  
(2019-10-10 00:00:00)

*Gli1<sup>tm3(cre/ERT2)Alj</sup>*

Allele Type	Gene Symbol	Gene Name
Targeted (Recombinase-expressing, Inducible)	<i>Gli1</i>	GLI-Kruppel family member GLI1

VIEW GENETICS

## RESEARCH APPLICATIONS

Research Tools  
Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS

## BASE PRICE

Starting at:

\$255.00 Domestic price for female 4-week

333.51 Domestic price for breeder pair

VIEW PRICE LIST

### Details

#### Important Note

This strain is on a mixed background and produces mice with both black and albino coat colors.

#### Detailed Description

Mice homozygous for this *Gli1*-CreER<sup>T2</sup> targeted allele are viable and fertile (although homozygous males are reported to have breeding problems). Under control of the endogenous upstream promoter/enhancer elements, tamoxifen-inducible *cre* activity is observed in cells that have received positive Hedgehog/Sonic Hedgehog signaling. The Cre-ERT2 fusion protein consists of Cre recombinase fused to a triple mutant form of the human estrogen receptor which does not bind its natural ligand (17 $\beta$ -estradiol) at physiological concentrations but will bind the synthetic estrogen receptor ligands 4-hydroxytamoxifen and, with lesser sensitivity, ICI 182780. Restricted to the cytoplasm, Cre-ERT2 can only gain access to the nuclear compartment after exposure to tamoxifen. To counteract the mixed estrogen agonist effects of tamoxifen injections, which can result in late fetal abortions in pregnant mice,

progesterone may be coadministered. When these Gli1-CreER<sup>1/2</sup> mice are bred with mice containing a loxP-flanked sequence of interest, tamoxifen-inducible, Cre-mediated recombination will result in deletion of the flanked sequences in Gli1 expressing cells; making them useful for studying axis patterning, proliferation, and cell fate specification of Hedgehog responding cells at different stages of embryogenesis.

## + Development

## + Expression Data

## + Control Suggestions

## + Selected References

## - Genetics

### + *Gli1*<sup>tm3(cre/ERT2)Aj</sup>

## - Disease/Phenotype

### + Disease Terms

### + Research Areas By Genotype

### + Mammalian Phenotype Terms by Genotype

### + References

## - Technical Support

C H A T   O  F L I N E

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

Probe: [Generic Cre](#)

Standard PCR: [Gli1<sup>tm3\(cre/ERT2\)Aj</sup>](#)

Standard PCR: [Generic Cre](#)

[Genotyping resources and troubleshooting](#)

## Dietary Information

LabDiet® 5K52 formulation (6% fat)

## Breeding Considerations

When maintaining a live colony, heterozygous mice may be bred together or to wildtype mice from the colony. The donating investigator reports that homozygous males do not breed well.

[Additional Breeding and Husbandry Support](#)

## Mating System

Wild-type x Heterozygote

Heterozygote x Wild-type

## Appearance

This strain is on a mixed background and produces mice with both black and albino coat colors.

## Citation

When using the Gli1<sup>tmβ(cre/ESR1)Aij</sup> mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #007913 in your Materials and Methods section.

[Facility Barrier Level Descriptions](#)

 [AX10 \(Standard\)](#)

## ➔ Pricing & Availability



Live mice available in varying quantities. Ask Customer Service for details.

Available

## Domestic **International**

Pricing effective for USA, Canada and Mexico shipping destinations

Live Mouse			
AGE	SEX	GENOTYPE	PRICE
4 weeks	Female	Heterozygous for Gli1 <sup>tmβ(cre/ESR1)Aij</sup>	\$255.00
	Male	Heterozygous for Gli1 <sup>tmβ(cre/ESR1)Aij</sup>	\$255.00
4 weeks	Female	WILDTYPE for Gli1 <sup>tmβ(cre/ESR1)Aij</sup>	\$78.51
	Male	WILDTYPE for Gli1 <sup>tmβ(cre/ESR1)Aij</sup>	\$78.51
5 weeks	Female	Heterozygous for Gli1 <sup>tmβ(cre/ESR1)Aij</sup>	\$255.00
	Male	Heterozygous for Gli1 <sup>tmβ(cre/ESR1)Aij</sup>	\$255.00
5 weeks	Female	WILDTYPE for Gli1 <sup>tmβ(cre/ESR1)Aij</sup>	\$78.51
	Male	WILDTYPE for Gli1 <sup>tmβ(cre/ESR1)Aij</sup>	\$78.51
6 weeks	Female	Heterozygous for Gli1 <sup>tmβ(cre/ESR1)Aij</sup>	\$255.00
	Male	Heterozygous for Gli1 <sup>tmβ(cre/ESR1)Aij</sup>	\$255.00
6 weeks	Female	WILDTYPE for Gli1 <sup>tmβ(cre/ESR1)Aij</sup>	\$78.51
	Male	WILDTYPE for Gli1 <sup>tmβ(cre/ESR1)Aij</sup>	\$78.51
7 weeks	Female	Heterozygous for Gli1 <sup>tmβ(cre/ESR1)Aij</sup>	\$255.00
	Male	Heterozygous for Gli1 <sup>tmβ(cre/ESR1)Aij</sup>	\$255.00
7 weeks	Female	WILDTYPE for Gli1 <sup>tmβ(cre/ESR1)Aij</sup>	\$78.51
	Male	WILDTYPE for Gli1 <sup>tmβ(cre/ESR1)Aij</sup>	\$78.51
8 weeks	Female	Heterozygous for Gli1 <sup>tmβ(cre/ESR1)Aij</sup>	\$255.00
	Male	Heterozygous for Gli1 <sup>tmβ(cre/ESR1)Aij</sup>	\$255.00
8 weeks	Female	WILDTYPE for Gli1 <sup>tmβ(cre/ESR1)Aij</sup>	\$78.51
	Male	WILDTYPE for Gli1 <sup>tmβ(cre/ESR1)Aij</sup>	\$78.51
9 weeks	Female	Heterozygous for Gli1 <sup>tmβ(cre/ESR1)Aij</sup>	\$255.00
	Male	Heterozygous for Gli1 <sup>tmβ(cre/ESR1)Aij</sup>	\$255.00

tmβ(cre/ESR1)Aij

9 weeks	SEX	WILDTYPE for Gli1 <sup>tm3(cre/ESR1)Aij</sup>	\$78.51
10 weeks	Female	Heterozygous for Gli1 <sup>tm3(cre/ESR1)Aij</sup>	\$255.00
	Male	Heterozygous for Gli1 <sup>tm3(cre/ESR1)Aij</sup>	\$255.00
10 weeks	Female	WILDTYPE for Gli1 <sup>tm3(cre/ESR1)Aij</sup>	\$78.51
	Male	WILDTYPE for Gli1 <sup>tm3(cre/ESR1)Aij</sup>	\$78.51
11 weeks	Female	Heterozygous for Gli1 <sup>tm3(cre/ESR1)Aij</sup>	\$255.00
	Male	Heterozygous for Gli1 <sup>tm3(cre/ESR1)Aij</sup>	\$255.00
11 weeks	Female	WILDTYPE for Gli1 <sup>tm3(cre/ESR1)Aij</sup>	\$78.51
	Male	WILDTYPE for Gli1 <sup>tm3(cre/ESR1)Aij</sup>	\$78.51
12 weeks	Female	Heterozygous for Gli1 <sup>tm3(cre/ESR1)Aij</sup>	\$255.00
	Male	Heterozygous for Gli1 <sup>tm3(cre/ESR1)Aij</sup>	\$255.00
12 weeks	Female	WILDTYPE for Gli1 <sup>tm3(cre/ESR1)Aij</sup>	\$78.51
	Male	WILDTYPE for Gli1 <sup>tm3(cre/ESR1)Aij</sup>	\$78.51

Breeder Pair			PRICE
SEX	GENOTYPE		
Female	Heterozygous for Gli1 <sup>tm3(cre/ESR1)Aij</sup>		\$333.51
Male	WILDTYPE for Gli1 <sup>tm3(cre/ESR1)Aij</sup>		
Female	WILDTYPE for Gli1 <sup>tm3(cre/ESR1)Aij</sup>		\$333.51
Male	Heterozygous for Gli1 <sup>tm3(cre/ESR1)Aij</sup>		

Related Products and Services		
Frozen Mouse Embryo	<a href="#">STOCK Gli1&lt;tm3(cre/ERT2)Aij&gt;/J Frozen Embryo</a>	\$2595.00

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Email: [TechTran@jax.org](mailto:TechTran@jax.org)

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