

B6;129S-Gt(ROSA)26Sor^{tm65.1(CAG-tdTomato)Hze} /J

Stock No: **021875** | Ai65(RCFL-tdT)-D or Ai65D

 Targeted Mutation

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

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STOP cassette preventing transcription of the tdTomato fluorescent protein. After removal of the flanked STOP cassettes by FLP- and Cre-recombination, tdTomato fluorescence is expected in cells/tissues expressing both FLP recombinase and Cre recombinase.

Donating Investigator

Hongkui Zeng, Allen Institute for Brain Science

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GENETIC OVERVIEW

Genetic Background

Generation

N2+pN2F17
(2020-05-05 00:00:00)

Gt(ROSA)26Sor^{tm65.1(CAG-tdTomato)Hze}

Alele Type

Targeted (Conditional ready (e.g. floxed), No functional change)

Gene Symbol

Gt(ROSA)26Sor

Gene Name

gene trap ROSA 26, Philippe Soriano

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

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

Details

Detailed Description

Ai65(RCFL-tdT) Δ neo mice (also called Ai65(RCFL-tdT)-D, Ai65 Δ neo, or Ai65D) harbor the Rosa-CAG-FrtSTOPFrt-LoxSTOPLox-tdTomato::deltaNeo conditional allele designed with both an *frt*-flanked STOP cassette and a *loxP*-flanked STOP cassette preventing transcription of the tdTomato fluorescent protein. Although under control of the endogenous *Gt(ROSA)26Sor* promoter/enhancer regions and the CAG hybrid promoter, widespread expression of tdTomato is prevented by both STOP cassettes. After removal of both flanked STOP cassettes via *Flp*- and *cre*-mediated recombination, expression of tdTomato is expected in cells/tissues where the expression patterns of the individual promoters driving FLP recombinase and Cre recombinase overlap.

Specifically, the donating investigator reports that Ai65(RCFL-tdT) Δ neo mice have no tdTomato expression prior to introduction of both Flp and Cre recombinase. Fluorescence is observed in cells expressing recombinase (via breeding recombinase-expressing or via recombinant adeno-associated virus injections [AAV-synapsin promoter-Cre and AAV-synapsin promoter-Flp expression plasmids]). tdTomato expression is presumably also detectable by mRNA [*in situ* hybridization] and antibody staining/immunohistochemistry. The donating investigator also reports that order in which the flanked STOP cassettes are removed is arbitrary. Heterozygous mice are viable and fertile with no reported gross physical or behavioral abnormalities. The donating investigator has not attempted to generate homozygous mice to date (April 2013).

For characterization information, see images at the Allen Institute for Brain Science website ([Ai65\(RCFL-tdT\) images](#)).

Development

Control Suggestions

Selected References

Genetics

[+](#) *Gt(ROSA)26Sor^{tm65.1(CAG-tdTomato)Hze}*

– Disease/Phenotype

+ Disease Terms

+ Research Areas By Phenotype

+ Mammalian Phenotype Terms by Genotype

+ References

– 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:[Gt\(ROSA\)26Sor\(tdTomato-WPRE\)](#)

Standard PCR:[Gt\(ROSA\)26Sor](#)

[Genotyping resources and troubleshooting](#)

Dietary Information

LabDiet® 5K52 formulation (6% fat)

Breeding Considerations

When maintaining a live colony, heterozygous mice may be bred to wildtype mice from the colony. The donating investigator has not attempted to generate homozygous mice to date (April 2013).

[Additional Breeding and Husbandry Support](#)

Mating System

Heterozygote x Wild-type

Wild-type x Heterozygote

Citation

When using the Ai65(RCFL-tdT)-D or Ai65D mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #021875 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX18 \(Maximum\)](#)

– Pricing & Availability



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

Available

Domestic Internatio

Pricing effective for USA, Canada and Mexico shipping destinations

Live Mouse

AGE	SEX	GENOTYPE	PRICE
4 weeks	Female	Heterozygous for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}	\$255.00
	Male	Heterozygous for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}	\$255.00
4 weeks	Female	Wild-type for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}	\$78.51
	Male	Wild-type for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}	\$78.51
5 weeks	Female	Heterozygous for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}	\$255.00
	Male	Heterozygous for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}	\$255.00
5 weeks	Female	Wild-type for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}	\$78.51
	Male	Wild-type for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}	\$78.51
6 weeks	Female	Heterozygous for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}	\$255.00
	Male	Heterozygous for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}	\$255.00
6 weeks	Female	Wild-type for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}	\$78.51
	Male	Wild-type for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}	\$78.51
7 weeks	Female	Heterozygous for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}	\$255.00
	Male	Heterozygous for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}	\$255.00
7 weeks	Female	Wild-type for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}	\$78.51
	Male	Wild-type for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}	\$78.51
8 weeks	Female	Heterozygous for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}	\$255.00
	Male	Heterozygous for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}	\$255.00
8 weeks	Female	Wild-type for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}	\$78.51
	Male	Wild-type for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}	\$78.51
9 weeks	Female	Heterozygous for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}	\$255.00
	Male	Heterozygous for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}	\$255.00
9 weeks	Female	Wild-type for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}	\$78.51
	Male	Wild-type for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}	\$78.51
10 weeks	Female	Heterozygous for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}	\$255.00
	Male	Heterozygous for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}	\$255.00
10 weeks	Female	Wild-type for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}	\$78.51
	Male	Wild-type for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}	\$78.51
11 weeks	Female	Heterozygous for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}	\$255.00
	Male	Heterozygous for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}	\$255.00

11 weeks	SEX	Wild-type for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}	\$78.51
	Male	Wild-type for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}	\$78.51
12 weeks	Female	Heterozygous for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}	\$255.00
	Male	Heterozygous for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}	\$255.00
12 weeks	Female	Wild-type for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}	\$78.51
	Male	Wild-type for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}	\$78.51

Breeder Pair			
SEX	GENOTYPE		PRICE
Female	Heterozygous for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}		\$333.51
Male	Wild-type for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}		
Female	Wild-type for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}		\$333.51
Male	Heterozygous for Gt(ROSA)26Sor ^{tm65.1(CAG-tdTomato)Hze}		

Related Products and Services		
Frozen Mouse Embryo	B6;129S-Gt(ROSA)26Sor<tm65.1(CAG-tdTomato)Hze>/J Frozen Embr	\$2595.00

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