

C57BL/6-Gt(ROSA)26Sor^{tm1(HBEGF)Awai} /J

Stock No: **007900** | ROSA26iDTR

 Coisogenic, Targeted Mutation

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

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Also Known As: B6-iDTR, ROSA26iDTR

The Cre-inducible expression of DTR in these iDTR knock-in mice render cells susceptible to ablation following Diphtheria toxin administration.

Donating Investigator

Ari Waisman, Johannes Gutenberg University of Mainz

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GENETIC OVERVIEW

Genetic Background

Generation

N?+pN2F15
(2021-03-31 00:00:00)

Gt(ROSA)26Sor^{tm1(HBEGF)Awai}

Alele Type

Gene Symbol

Gene Name

Targeted (Conditional ready)

Gt(ROSA)26Sor

gene trap ROSA 26, Philippe Soriano

(e.g. floxed), Inserted
expressed sequence)

V I E W G E N E T I C S

RESEARCH APPLICATIONS

Neurobiology Research
Research Tools

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

BASE PRICE

Starting at:

\$255.00 Domestic price for female 4-week

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

Details

Detailed Description

Mice homozygous for this iDTR mutation are viable and fertile. These mice have the simian diphtheria toxin receptor (DTR; from simian *Hbegf*) inserted into the *Gt(ROSA)26Sor* (*ROSA26*) locus. Widespread expression of DTR is blocked by an upstream *loxP*-flanked STOP sequence. Of note, it has been the experience of The Jackson Laboratory that mice homozygous for the DTR, in the absence of Cre, are undersized at 3 weeks of age. We therefore recommend weaning these mice at ~4 weeks of age.

When bred to Cre recombinase-expressing mice, the STOP sequence is deleted in tissues where Cre is present, permitting DTR expression. Cells expressing DTR are rendered susceptible to ablation following Diphtheria toxin administration.

For example, when bred to a strain with a *Cd19* null allele and expressing Cre recombinase during the B lymphocyte development (Stock No. [006785](#)), this mutant mouse strain may be useful in studies of lymphocyte cell ablation.

When crossed to a strain expressing Cre recombinase in oocytes (see Stock No. [011062](#)), this mutant mouse strain may be useful in studies of ovarian development.

When crossed to a strain expressing Cre recombinase in the pituitary and, at lower levels, in the testes (see Stock No. [011069](#)), this mutant mouse strain may be useful in studies of metabolic dysfunction.

Of note, *iDTR* mice are also available on a *BALB/cBy* congenic background (as Stock No. [008040](#)) and a *NOD* congenic background (as Stock No. [016603](#)).

Of note, The Jackson Laboratory Repository also distributes RC::L-DTA mice (Stock No. [026944](#)), which have Cre recombinase-dependent inverted *tox176* attenuated diphtheria toxin subunit alpha gene (DTA*G128D), as well as widespread eGFP fluorescence in the absence of Cre recombinase.

+ Development

+ Expression Data

+ Control Suggestions

+ Selected References

- Genetics

+ *Gt(ROSA)26Sor^{tm1(HBEGF)Awai}*

- 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

Probe: [Gt\(rosa\)26sor Probe](#)

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

Separated MCA: [Gt\(ROSA\)26Sor STD](#)

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

[Genotyping resources and troubleshooting](#)

Dietary Information

LabDiet® 5K52 formulation (6% fat)

Breeding Considerations

When maintaining a live colony, homozygous mice may be bred.

Homozygotes are typically undersized at 3 weeks of age. We therefore recommend weaning these mice at ~4 weeks of age.

[Additional Breeding and Husbandry Support](#)

Mating System

Homozygote x Homozygote

Citation

When using the ROSA26iDTR mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #007900 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX11 \(Maximum\)](#)

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	Homozygous for Gt(ROSA)26Sor ^{tm1(HBEGF)Awai}	\$255.00
	Male	Homozygous for Gt(ROSA)26Sor ^{tm1(HBEGF)Awai}	\$255.00
5 weeks	Female	Homozygous for Gt(ROSA)26Sor ^{tm1(HBEGF)Awai}	\$255.00
	Male	Homozygous for Gt(ROSA)26Sor ^{tm1(HBEGF)Awai}	\$255.00
6 weeks	Female	Homozygous for Gt(ROSA)26Sor ^{tm1(HBEGF)Awai}	\$255.00
	Male	Homozygous for Gt(ROSA)26Sor ^{tm1(HBEGF)Awai}	\$255.00
7 weeks	Female	Homozygous for Gt(ROSA)26Sor ^{tm1(HBEGF)Awai}	\$255.00
	Male	Homozygous for Gt(ROSA)26Sor ^{tm1(HBEGF)Awai}	\$255.00

8 weeks	SEX	Homozygous for Gt(ROSA)26Sor ^{tm1(HBEGF)Awai}	\$255.00
	Male	Homozygous for Gt(ROSA)26Sor ^{tm1(HBEGF)Awai}	\$255.00
9 weeks	Female	Homozygous for Gt(ROSA)26Sor ^{tm1(HBEGF)Awai}	\$255.00
	Male	Homozygous for Gt(ROSA)26Sor ^{tm1(HBEGF)Awai}	\$255.00
10 weeks	Female	Homozygous for Gt(ROSA)26Sor ^{tm1(HBEGF)Awai}	\$255.00
	Male	Homozygous for Gt(ROSA)26Sor ^{tm1(HBEGF)Awai}	\$255.00
11 weeks	Female	Homozygous for Gt(ROSA)26Sor ^{tm1(HBEGF)Awai}	\$255.00
	Male	Homozygous for Gt(ROSA)26Sor ^{tm1(HBEGF)Awai}	\$255.00
12 weeks	Female	Homozygous for Gt(ROSA)26Sor ^{tm1(HBEGF)Awai}	\$255.00
	Male	Homozygous for Gt(ROSA)26Sor ^{tm1(HBEGF)Awai}	\$255.00

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	C57BL/6-Gt(ROSA)26Sor ^{tm1(HBEGF)Awai} /J Frozen Embryos	\$2595.00
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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. We do not guarantee [breeding performance](#) and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

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Q U E S T I O N S A B O U T T E R M S O F U S E

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

☰ Related Strains

All

By Allele

By Gene

By Collection



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Yes No