



B 6 . CgJ-(R O S A) 2 6 S 6 r / J

Stock No: 007914 | Ai14 , Ai14D or Ai14(RCL-tdT)-D

Congenic, Gene Trap, Targeted Mutation



AVAILABLE NOW

PLACE ORDER

Sized to accommodate orders of up to 50 or more. Ask Customer Service for details.

Overview



Also Known As: Ai14 , Ai14D or Ai14(RCL-tdT)-D

Ai14 is a Cre reporter allele designed to have a *loxP*-flanked STOP cassette preventing transcription of a CAG promoter-driven red fluorescent protein variant (tdTomato) - all inserted into the *Gt(ROSA)26Sor* locus. Ai14 mice express robust tdTomato fluorescence following Cre-mediated recombination. This strain is congenic on the C57BL/6J genetic background.

Donating Investigator

Hongkui Zeng, Allen Institute for Brain Science

READ MORE +

GENETIC OVERVIEW

Genetic Background

Generation

[N5+F10pN1F7](#)
(2019-08-28 00:00:00)

[Gt\(ROSA\)26Sor^{tm14\(CAG-tdTomato\)}Hze](#)

Allele Type

Gene Symbol

Gene Name

Targeted (Conditional ready (e.g. floxed), Reporter)

Gt(ROSA)26Sor

gene trap ROSA 26, Philippe Soriano

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

RESEARCH APPLICATIONS

Research Tools

Neurobiology Research

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:

\$236.78 Domestic price for female 4-week

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

Details

Detailed Description

Ai14 mice homozygous for this Rosa-CAG-LSL-tdTomato-WPRE conditional allele (also called Ai14D, Ai14(RCL-tdT)-D or Rosa-CAG-LSL-tdTomato-WPRE::ΔNeo) are viable and fertile. A *loxP*-flanked STOP cassette is designed to prevent transcription of the red fluorescent protein variant tdTomato (see below). When bred to mice that express Cre recombinase, the resulting offspring will have the STOP cassette deleted in the *cre*-expressing tissue(s) - resulting in robust tdTomato fluorescence. Because this CAG promoter-driven reporter construct is inserted into the *Gt(ROSA)26Sor* locus, robust tdTomato expression is determined by which tissue(s) express Cre recombinase. These Ai14 mice are useful as a Cre reporter strain - expressing tdTomato fluorescence following Cre-mediated recombination.

Importantly, the donating investigator reports that very low levels of tdTomato expression may be present prior to introduction of Cre recombinase - but the tdTomato expression levels after Cre recombination are significantly greater than those baseline levels. As such, it is recommended that researchers include Cre-negative Ai14 controls to establish the baseline tdTomato levels in their experiments.

For characterization information, see images at the Allen Institute for Brain Science website ([Ai14 images](#)).

The Allen Institute for Brain Science website has specific characterization information for several Cre Driver and Cre Reporter lines. Please see their website for images of [Allen Institute for Brain Science experiments performed with all lines](#).

Of note, Ai14 mice may also be available on the original B6;129S6 mixed genetic background (see Stock No. [007908](#)).

The Ai9 and Ai14 alleles are very similar in design - differing only in the presence or absence of an *att* site-flanked selection cassette at the 3' end of the targeted allele. Specifically, the Ai9 allele (*Gt(ROSA)26Sor^{tm9(CAG-tdTomato)Hze}*; Stock Nos. [007905/007909](#)) is designed as Rosa26::CAG::*frt*::*loxP*-STOP-*loxP*::tdTomato::WPRE::polyA::*attB*-PGK-*frt*-neo-polyA-*attP*, whereas the Ai14 allele (*Gt(ROSA)26Sor^{tm14(CAG-tdTomato)Hze}*; Stock Nos. [007908/007914](#)) is designed as Rosa26::CAG::*frt*::*loxP*-STOP-*loxP*::tdTomato::WPRE::polyA::*attL*.

+ Development

+ Expression Data

+ Control Suggestions

+ Selected References

- Genetics

+ *Gt(ROSA)26Sor^{tm14(CAG-tdTomato)Hze}*

- 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

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

[Genotyping resources and troubleshooting](#)

Dietary Information

LabDiet® 5K52 formulation (6% fat)

Breeding Considerations

Mutant mice were bred to C57BL/6J mice for many generations to establish this congenic strain. When maintaining the live congenic colony, homozygous mice may be bred together.

[Additional Breeding and Husbandry Support](#)

Mating System

Homozygote x Homozygote

Citation

When using the Ai14, Ai14D, or Ai14(RCL-tdT)-D mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #007914 in your Materials and Methods section.

[Facility Barrier Level Descriptions](#)

 [AX10 \(Standard\)](#)

➔ Pricing & Availability



Available Now

Sized to accommodate orders of up to 50 or more. Ask Customer Service for details.

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 ^{tm14(CAG-tdTomato)} Hze	\$236.78
	Male	Homozygous for Gt(ROSA)26Sor ^{tm14(CAG-tdTomato)} Hze	\$236.78
5 weeks	Female	Homozygous for Gt(ROSA)26Sor ^{tm14(CAG-tdTomato)} Hze	\$236.78
	Male	Homozygous for Gt(ROSA)26Sor ^{tm14(CAG-tdTomato)} Hze	\$236.78
6 weeks	Female	Homozygous for Gt(ROSA)26Sor ^{tm14(CAG-tdTomato)} Hze	\$236.78
	Male	Homozygous for Gt(ROSA)26Sor ^{tm14(CAG-tdTomato)} Hze	\$236.78
7 weeks	Female	Homozygous for Gt(ROSA)26Sor ^{tm14(CAG-tdTomato)} Hze	\$236.78
	Male	Homozygous for Gt(ROSA)26Sor ^{tm14(CAG-tdTomato)} Hze	\$236.78
8 weeks	Female	Homozygous for Gt(ROSA)26Sor ^{tm14(CAG-tdTomato)} Hze	\$236.78
	Male	Homozygous for Gt(ROSA)26Sor ^{tm14(CAG-tdTomato)} Hze	\$236.78

Related Products and Services

Frozen Mouse Embryo	B6.Cg-Gt(ROSA)26Sor ^{<tm14(CAG-tdTomato)} Hze>/J Frozen Embryo	\$2595.00
---------------------	----------------------------------------------------------------------------	-----------

Payment Terms and Conditions

Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

The Jackson Laboratory's Genotype Promise

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.

➔ Terms Of Use

Terms of Use

Licensing Information

Phone: 207-288-6470

Email: TechTran@jax.org

JAX® Mice, Products & Services Conditions of Use

"MICE" means mouse strains, their progeny derived by inbreeding or crossbreeding, unmodified derivatives from mouse strains or their progeny supplied by The Jackson Laboratory ("JACKSON"). "PRODUCT(S)" means biological materials supplied by JACKSON, and their derivatives. "SERVICES" means projects conducted by JACKSON for other parties that may include but are not limited to the use of MICE or PRODUCTS. "RECIPIENT" means each recipient of MICE, PRODUCTS, or SERVICES provided by JACKSON including each institution, its employees and other researchers under its control. MICE or PRODUCTS shall not be: (i) used for any purpose other than internal research, (ii) sold or otherwise provided to any third party for any use, or (iii) provided to any agent or other third party to provide breeding or other services. Acceptance of MICE, PRODUCTS or SERVICES from JACKSON shall be deemed as agreement by RECIPIENT to these conditions, and departure from these conditions requires JACKSON's prior written authorization.

No Warranty

MICE, PRODUCTS AND SERVICES ARE PROVIDED "AS IS". JACKSON EXTENDS NO WARRANTIES OF ANY KIND, EITHER EXPRESS, IMPLIED, OR STATUTORY, WITH RESPECT TO MICE, PRODUCTS OR SERVICES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ANY WARRANTY OF NON-INFRINGEMENT OF ANY PATENT, TRADEMARK, OR OTHER INTELLECTUAL PROPERTY RIGHTS.

Credit for PRODUCTS or SERVICES

In case of dissatisfaction for a valid reason and claimed in writing by a purchaser within ninety (90) days of receipt of, PRODUCTS or SERVICES, JACKSON will, at its option, provide credit or replacement for the PRODUCT received or the SERVICES provided; JACKSON makes no other representations and this shall be the exclusive remedy of the purchaser. [Please note specific policy for live mice.](#)

Animal Care and Use for SERVICES

Consistent with the requirement for a written understanding regarding animal care and use, the JACKSON Animal Care and Use Committee will review the animal care and use protocol(s) associated with any SERVICES to be performed at JACKSON, and JACKSON shall have ultimate responsibility and authority for the care of animals while on site or in JACKSON custody.

No Liability

In no event shall JACKSON, its trustees, directors, officers, employees, and affiliates be liable for any causes of action or damages, including any direct, indirect, special, or consequential damages, arising out of the provision of MICE, PRODUCTS, or SERVICES, including economic damage or injury to property and lost profits, and including any damage arising from acts or negligence on the part of JACKSON, its agents or employees. Unless prohibited by law, in purchasing or receiving MICE, PRODUCTS, or SERVICES from JACKSON, purchaser or recipient, or any party claiming by or through them, expressly releases and discharges JACKSON from all such causes of action or damages, and further agrees to defend and indemnify JACKSON from any costs or damages arising out of any third party claims.

MICE, PRODUCTS or SERVICES are to be used in a safe manner and in accordance with all applicable governmental rules and regulations.

The foregoing represents the General Terms and Conditions applicable to JACKSON's MICE, PRODUCTS or SERVICES. In addition, special terms and conditions of sale of certain MICE, PRODUCTS, or SERVICES may be set forth separately in JACKSON web pages, catalogs, price lists, contracts, and/or other documents, and these special terms and conditions shall also govern the sale of these MICE, PRODUCTS and SERVICES by JACKSON, and by its licensees and distributors.

Acceptance of delivery of MICE, PRODUCTS or SERVICES shall be deemed agreement to these terms and conditions. No purchase order or other document transmitted by purchaser or recipient that may modify the terms and conditions hereof, shall be in any way binding on JACKSON, and instead the terms and conditions set forth herein, including any special terms and conditions set forth separately, shall govern the sale of MICE, PRODUCTS or SERVICES by JACKSON.

All

By Allele

By Gene

By Collection

All Related Strains



JAX

IT'S WHERE THE MICE ARE.
DONATE YOURS.



[LEARN MORE](#)



CONTACT



DONATE



SUBSCRIBE

[JAX HOME](#) [CAREERS](#) [PRIVACY POLICY](#) [TERMS OF USE](#)

[SEND FEEDBACK](#)

[RESEARCH CENTERS](#) [MOUSE GENOME INFORMATICS](#)

[MOUSE PHENOME DATABASE](#)

Leading the search for

TOMORROW'S CURES

Choose other country or region 