B6.Cg-Gt(ROSA)26Sor I mpFl(CAG-tdTomato)Hze/J

Stock No: 007909 | Ai9 or Ai9(RCL-tdT)

• Congenic, Gene Trap, Targeted Mutation

PLACE ORDER

0–2 week average lead time for 10 or more mice with age range

Also Known As: Ai9 or Ai9(RCL-tdT)

Ai9 is a Cre reporter allele that has 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. Ai9 mice express robust td Tomato fluorescence following Cre-mediated recombination. This strain is congenic on the C57BL/6J genetic background.

Donating Investigator

Hongkui Zeng, Allen Institute for Brain Science

GENETIC OVERVIEW

Genetic Background: N6F11
**Gt(Rosa)26Sor^{lm9(CAG-tdTomato)Hze**

**Allele Type**
Targeted (Conditional ready (e.g. floxed), Reporter)

**Gene Symbol**
Gt(Rosa)26Sor

**Gene Name**
gene trap ROSA 26, Philippe Soriano

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**RESEARCH APPLICATIONS**
Neurobiology Research
Research Tools

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**BASE PRICE**
Starting at:

$231.00 Domestic price for female 5-week

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**Details**

**Detailed Description**

Ai9 mice homozygous for this Rosa-CAG-LSL-tdTomato-WPRE conditional allele 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 Ai9 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 Ai9 controls to establish the baseline tdTomato levels in their experiments.

Of note, the FRT sites flanking the mutation allow for additional targeted replacement of the reporter sequences through Flp-mediated recombination if so desired. Similarly, the attB/attP-flanked selection cassette may be removed by introduction of the site-specific bacteriophage PhiC31 integrase if so desired.

For characterization information, see images at the Allen Institute for Brain Science website (Ai9 images).

The Allen Institute for Brain Science website has specific characterization information for several Cre Driver and Cre Reporter lines.
Of note, A19 mice may also be available on the original B6.129S6 mixed genetic background (see Stock No. 007905).

The A19 and A14 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 A19 allele (Gt(ROSA)26Sor<sup>tm9(CAG-tdTomato)Hz</sup> <sub>ąc</sub>; Stock Nos. 007905/007909) is designed as Rosa26::CAG::fRT::loxP-STOP-loxP::tdTomato::WPRE::polyA::<sup>attP</sup>-PGK-fRT-neo-polyA-<sup>attP</sup>, whereas the A14 allele (Gt(ROSA)26Sor<sup>tm14(CAG-tdTomato)Hz</sup><sub>ąc</sub>; Stock Nos. 007908/007914) is designed as Rosa26::CAG::fRT::loxP-STOP-loxP::tdTomato::WPRE::polyA::<sup>attP</sup>.

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**Development**

**Expression Data**

**Control Suggestions**

**Selected References**

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**Genetics**

- Gt(ROSA)26Sor<sup>tm9(CAG-tdTomato)Hz</sup>\( \text{ąc} \)

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**Disease/Phenotype**

**Disease Terms**

**Research Areas By Genotype**

**Mammalian Phenotype Terms by Genotype**

**References**

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**Technical Support**

CONTACT TECHNICAL SUPPORT

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**Genotyping Protocols**

MELT: Gt(ROSA)26Sor(tdTomato-WPRE)
Genotyping resources and troubleshooting

**Breeding Considerations**

Mutant mice were bred to C57BL/6J inbred 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 A/J or A/J(RC1-tdT) mouse strain in a publication, please cite the originating article(s) and include JAX stock #007909 in your Materials and Methods section.

Animal Health Reports

Facility Barrier Level Descriptions

 AX12 (Maximum)

Pricing & Availability

0–2 week average lead time for 10 or more mice with age range

Repository Live

Domestic | International

Pricing effective for USA, Canada and Mexico shipping destinations

Live Mouse

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
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| 5 weeks | Female | Homozygous for Gt(ROSA)265or

| 6 weeks | Female | Homozygous for Gt(ROSA)265or

| 7 weeks | Female | Homozygous for Gt(ROSA)265or

| 8 weeks | Female | Homozygous for Gt(ROSA)265or

| 9 weeks | Female | Homozygous for Gt(ROSA)265or

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