

# Lrat-2A-Cre

<b>Nomenclature</b>	C57BL/6Smoc- <i>Lrat</i> <sup>em1(2A-Cre)Smoc</sup>
<b>Cat. NO.</b>	NM-KI-190097
<b>Strain State</b>	Repository Live

## Gene Summary

<b>Gene Symbol</b> Lrat	<b>Synonyms</b>	AI449251; 1300010A18Rik
	<b>NCBI ID</b>	<a href="#">79235</a>
	<b>MGI ID</b>	<a href="#">1891259</a>
	<b>Ensembl ID</b>	<a href="#">ENSMUSG00000028003</a>
	<b>Human Ortholog</b>	LRAT

## Model Description

A 2A-Cre expression cassette was knocked into the Lrat gene stop codon site.

**Research Application:** Cre recombinase tool

\*Literature published using this strain should indicate: Lrat-2A-Cre mice (Cat. NO. NM-KI-190097) were purchased from Shanghai Model Organisms Center, Inc..

## Validation Data

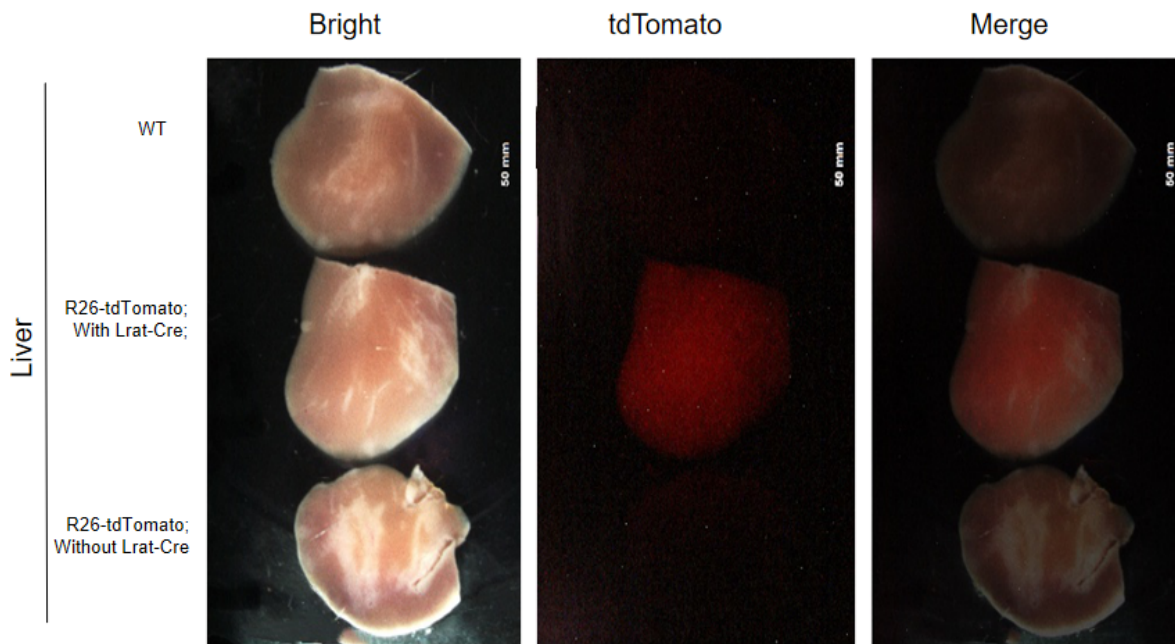


Fig1. Expression Pattern of tdTomato in  $Lrat^{Cre/+}$  ;  $Rosa26^{tdTomato/+}$  mice.

Cre mediated recombination in liver nonparenchymal cells of  $Lrat^{Cre/+}$  ;  $Rosa26^{tdTomato/+}$  mice. This strain represents an effective tool for generating liver nonparenchymal cells specific targeted mutants.

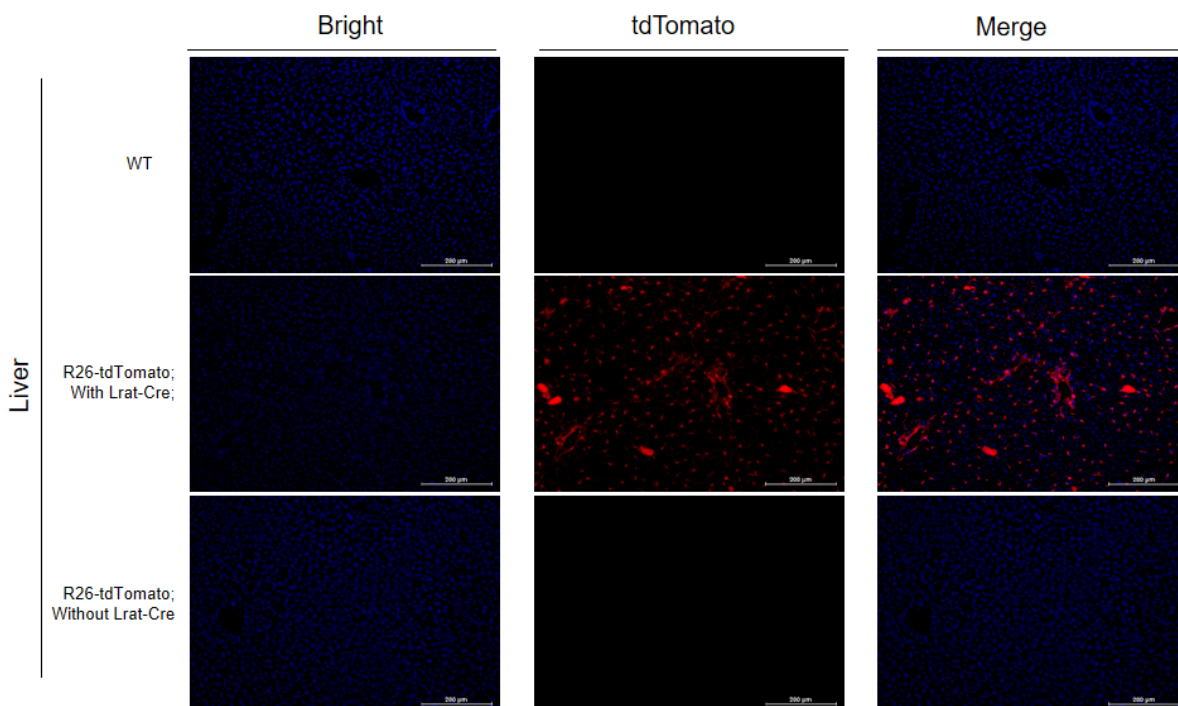


Fig2. Validation of tdTomato expression by fluorescence assay.

The liver nonparenchymal cells of  $Lrat-Cre$  mice were detected by fluorescence.

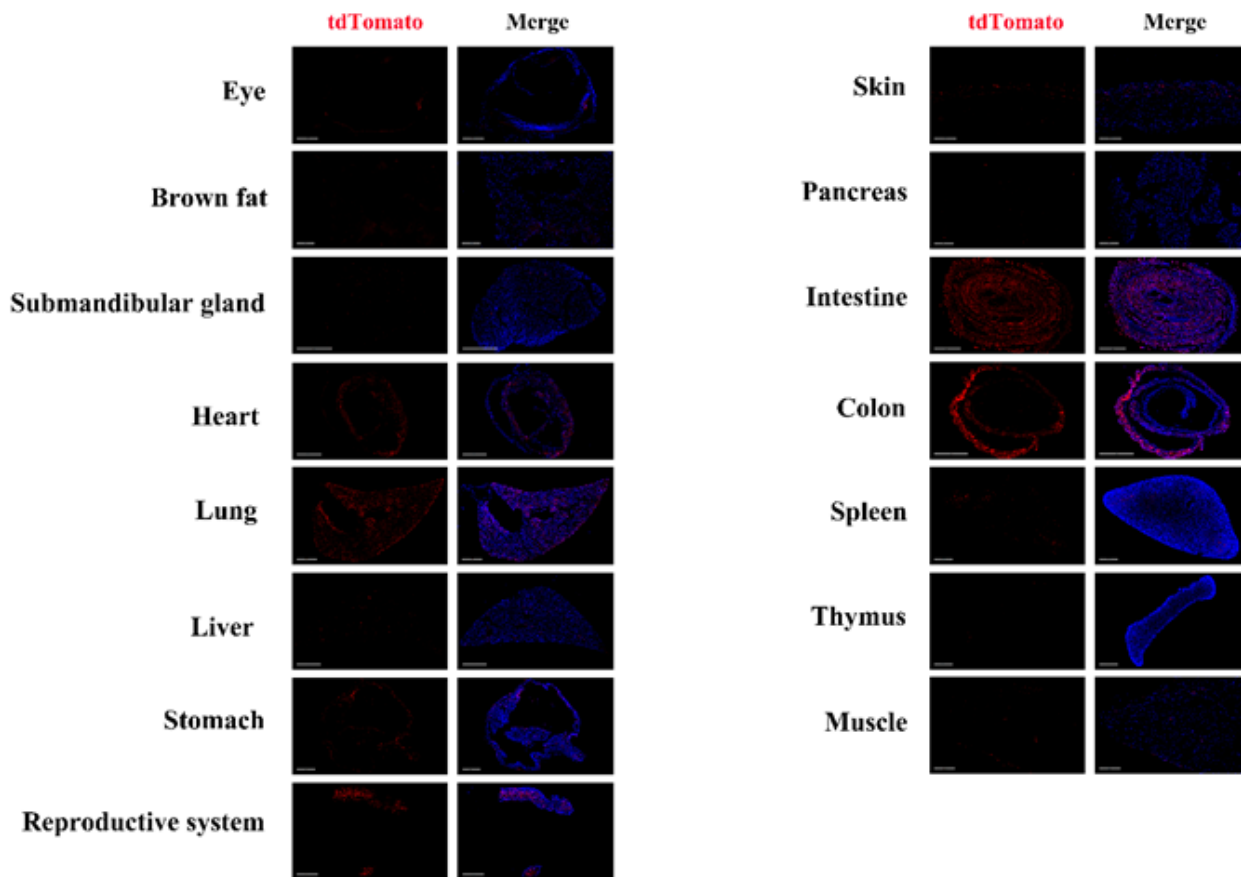


Fig. 3 Detection of tdTomato(red) in various tissues of  $Lrat^{Cre/+}; Rosa26^{tdTomato/+}$  mice. Cre-mediated recombination can be detected in some cells of the heart, liver, lung, stomach, uterus, colon, intestine, muscle and spleen. Tdtomato can not be detected in the retina, brown fat, submandibular gland or thymus. (For more detailed information please contact our technical advisor.)

## Publications

[Aberrant iron distribution via hepatocyte-stellate cell axis drives liver lipogenesis and fibrosis](#)

References: Cell Metabolism