

Lrat-2A-Cre

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

Gene Summary

Gene Symbol Lrat	Synonyms	AI449251; 1300010A18Rik
	NCBI ID	79235
	MGI ID	1891259
	Ensembl ID	ENSMUSG00000028003
	Human Ortholog	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

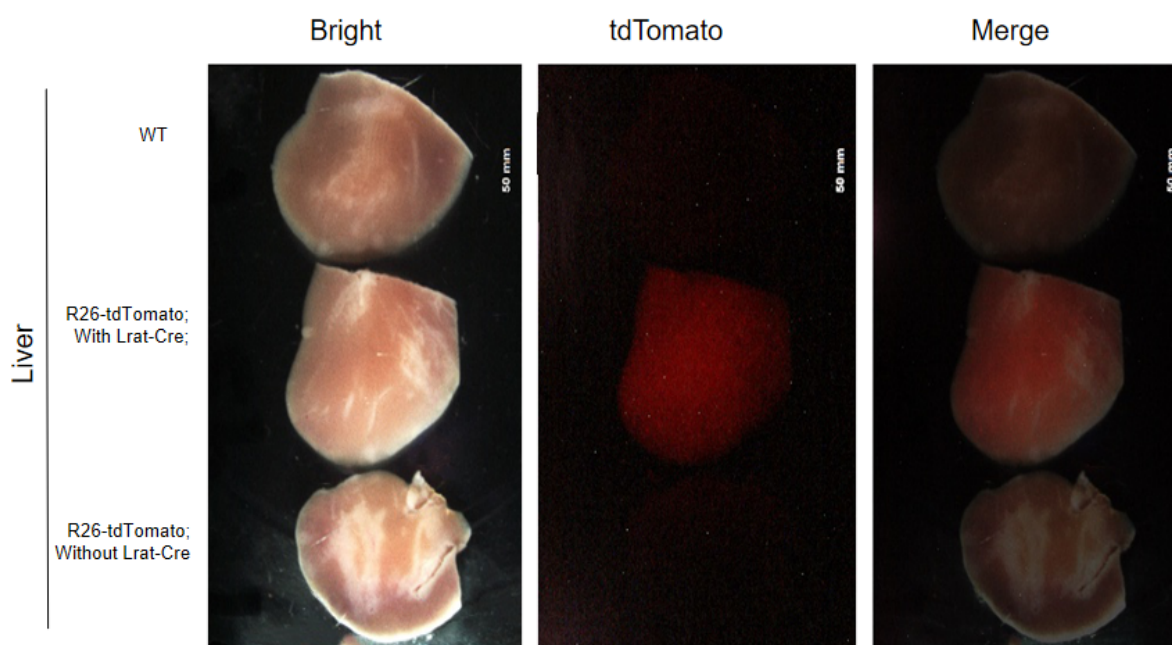


Fig1. Expression Pattern of tdTomato in LratCre/+ ; Rosa26tdTomato/+ mice.

Cre mediated recombination in liver nonparenchymal cells of LratCre/+ ; Rosa26tdTomato/+ mice. This strain represents an effective tool for generating liver nonparenchymal cells specific targeted mutants.

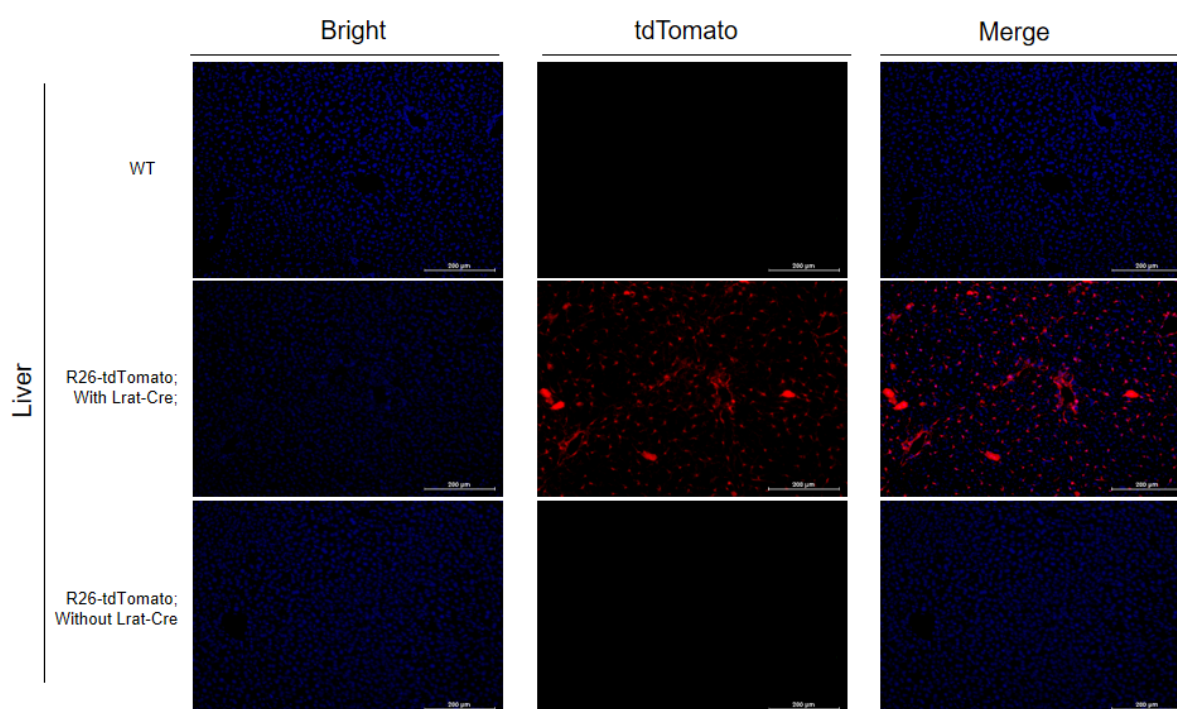


Fig2. Validation of tdTomato expression by fluorescence assay.

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

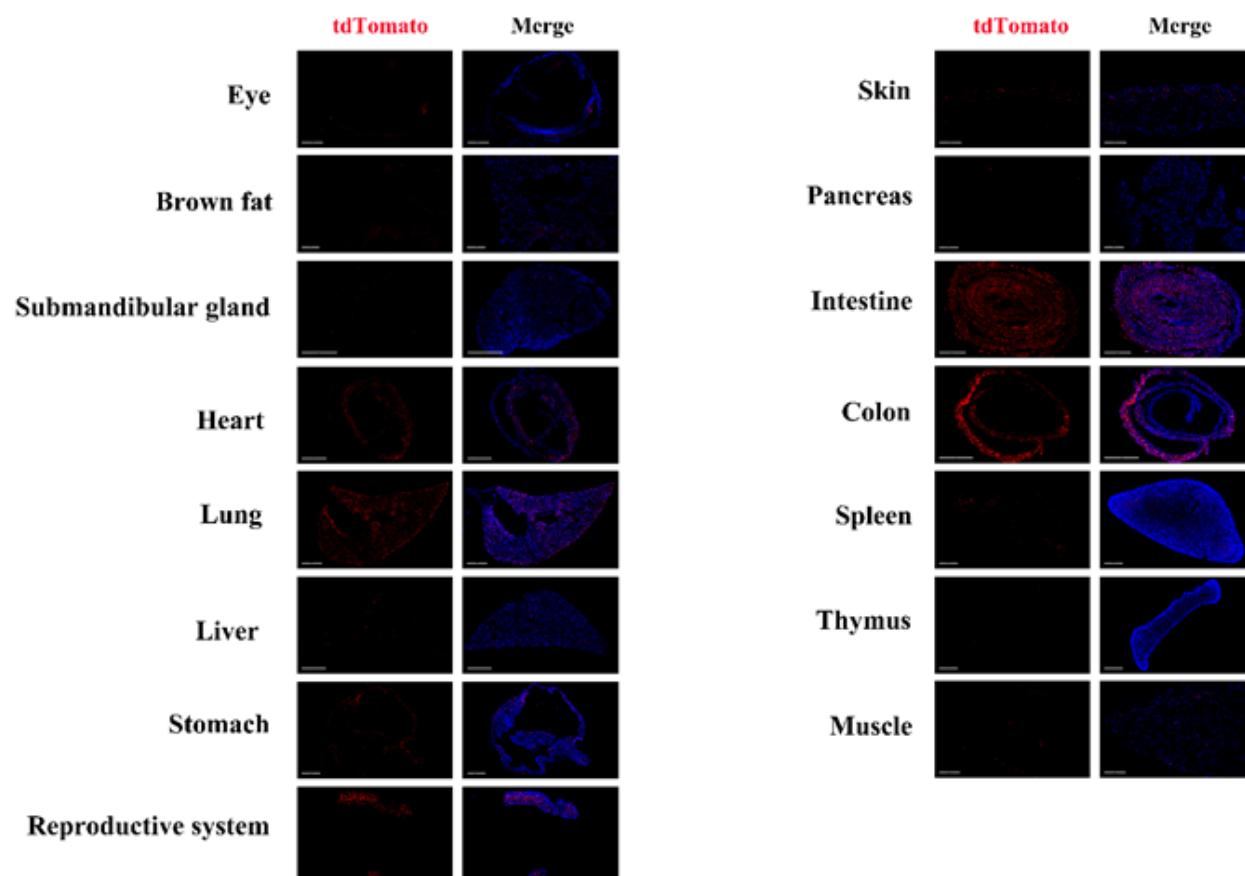


Fig. 3 Detection of tdTomato(red) in various tissues of $Lrat^{Cre/+}; Rosa26^{tdTomato/+}$ mice. Cre-mediated recombination can be detected in some cells of the heart, liver, lung, stomach, uterus, colon, intestine, muscle and spleen. Tdtomato can not be detected in the retina, brown fat, submandibular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