

# Plin1-2A-DreERT2

|                     |                                                          |
|---------------------|----------------------------------------------------------|
| <b>Nomenclature</b> | C57BL/6Smoc- <i>Plin1</i> <sup>em1(2A-DreERT2)Smoc</sup> |
| <b>Cat. NO.</b>     | NM-KI-190034                                             |
| <b>Strain State</b> | Sperm cryopreservation                                   |

## Gene Summary

|                                    |                       |                                     |
|------------------------------------|-----------------------|-------------------------------------|
| <b>Gene Symbol</b><br><b>Plin1</b> | <b>Synonyms</b>       | Peri; Plin; 6030432J05Rik           |
|                                    | <b>NCBI ID</b>        | <a href="#">103968</a>              |
|                                    | <b>MGI ID</b>         | <a href="#">1890505</a>             |
|                                    | <b>Ensembl ID</b>     | <a href="#">ENSMUSG000000030546</a> |
|                                    | <b>Human Ortholog</b> | PLIN1                               |

## Model Description

A 2A-DreERT2 expression cassette was knocked into the Plin1 gene stop codon site.

**Research Application:** Dre recombinase tool

\*Literature published using this strain should indicate: Plin1-2A-DreERT2 mice (Cat. NO. NM-KI-190034) were purchased from Shanghai Model Organisms Center, Inc..

## Validation Data

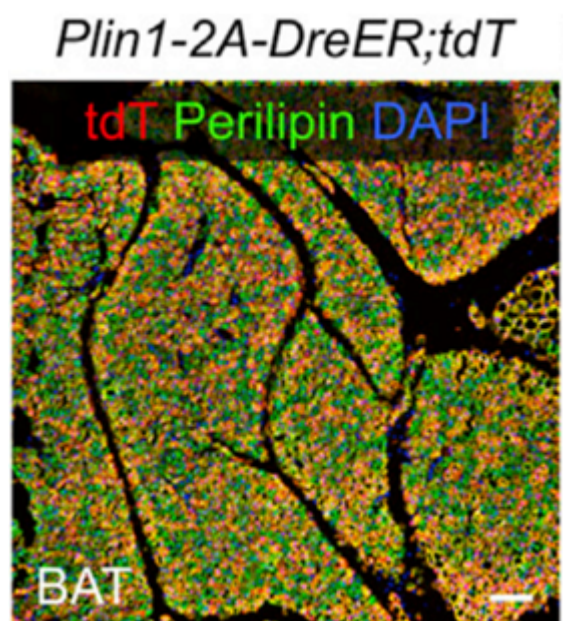


Fig.1 DreERT2-mediated recombination in the brown adipose tissue of  $Plin1^{DreERT2/+}$ ;  $R26^{tdTomato/+}$  mouse. TdTomato (red) expression can be detected in the brown adipose tissue after tamoxifen treatment. Perilipin (green) are phosphoproteins that are localized to the surface of triacylglycerol droplets within adipocytes. (Documented in the following reference.)

## Publications

[A Suite of New Dre-recombinase Drivers Markedly Expands the Ability to Perform Intersectional Genetic Targeting](#)

References: CELL STEM CELL