

# Calb1-2A-GFPCre

|        |   |
|--------|---|
| 系統名    | C57BL/6Smoc- <i>Calb1</i> <sup>em1(2A-EGFP-Cre)Smoc</sup> |
| SMOC番号 | NM-KI-200141  |
| 維持形態   | Sperm cryopreservation                                    |

## 遺伝子の概要

|                      |                |                                    |
|----------------------|----------------|------------------------------------|
| Gene Symbol<br>Calb1 | Synonyms       | CB; Calb; Calb-1; Brain-2          |
|                      | NCBI ID        | <a href="#">12307</a>              |
|                      | MGI ID         | <a href="#">88248</a>              |
|                      | Ensembl ID     | <a href="#">ENSMUSG00000028222</a> |
|                      | Human Ortholog | CALB1                              |

## 説明

A 2A-EGFP-Cre expression cassette was knocked into the *Calb1* gene stop codon site. *Calb1* is highly expressed in the brain. When crossed with a strain carrying a gene flanked by loxP sites, the flanked gene will be removed in cells expressing Cre. This strain is useful in studying many neurobehavioral diseases such as spatial learning and circadian rhythm interference. It has been reported that the incidence of many diseases may be different between genders.

**応用分野:** Cre recombinase tool

\*Literature published using this strain should indicate: *Calb1*-2A-GFPCre mice (Cat. NO. NM-KI-200141) were purchased from Shanghai Model Organisms Center, Inc..

## 表現型データ

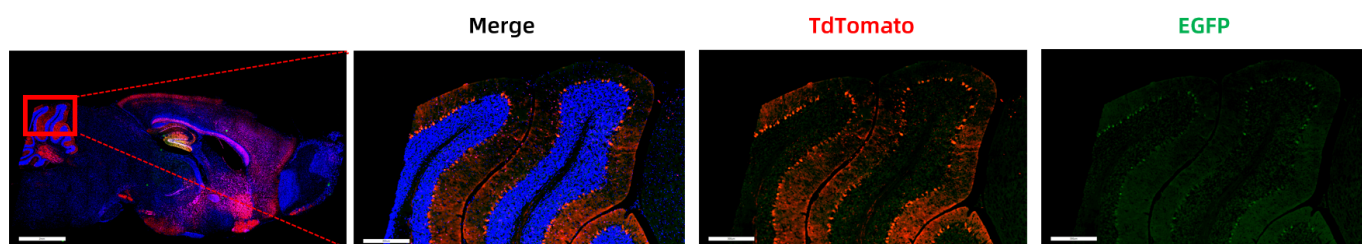


Fig. 1 Cre-mediated recombination in the brain of *Calb1*<sup>GFPCre/+</sup>; *Rosa26*<sup>tdTomato/+</sup> mouse. TdTomato(red) and EGFP(green) expression can be detected in the cerebellar purkinje cells of *Calb1*<sup>GFPCre/+</sup>; *Rosa26*<sup>tdTomato/+</sup> mouse.

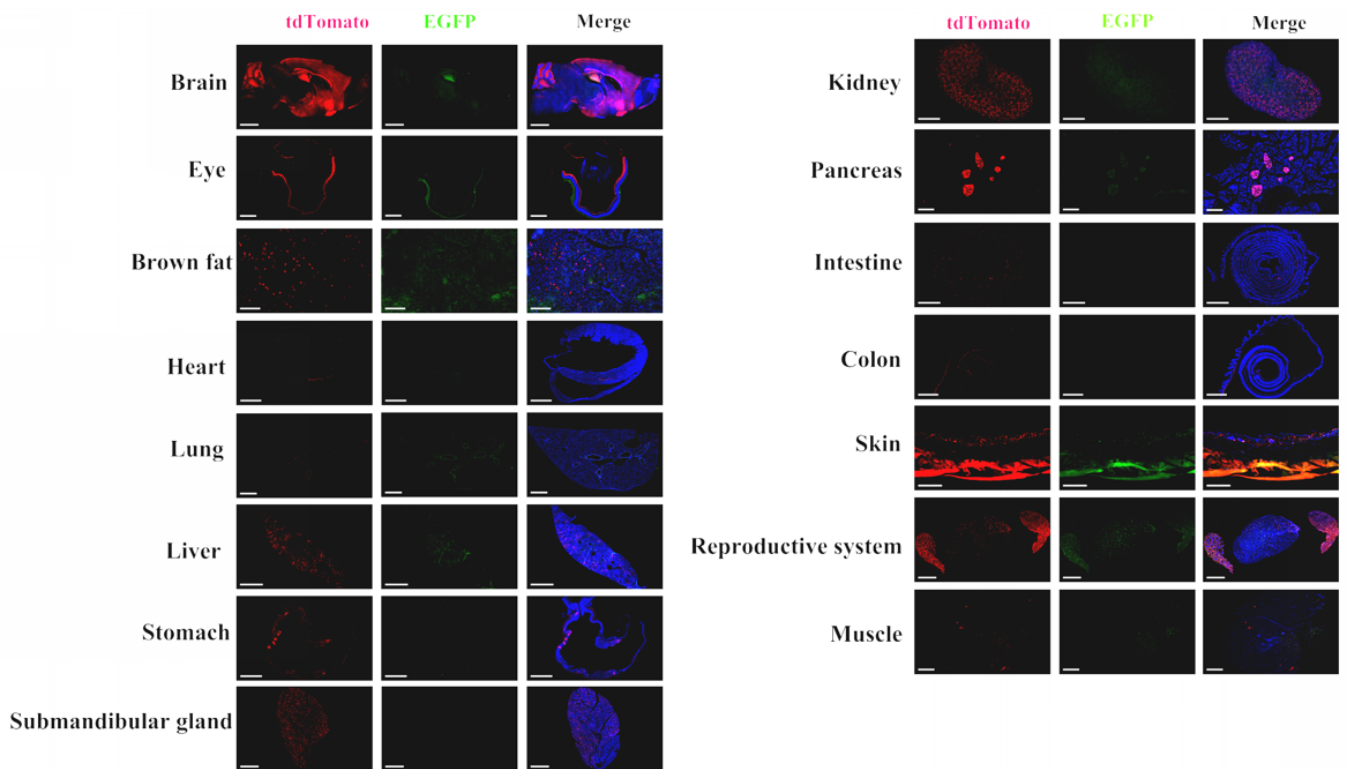


Fig. 2 Detection of tdTomato(red) and EGFP(green) in various tissues of  $Calb1^{GFP^{Cre/+}}; Rosa26^{tdTomato/+}$  mice. Tdtomato and EGFP expression can be detected in the brain, eyes, salivary gland, liver, kidney, pancreas, testis, epididymis, bronchi, brown fat, skin, stomach, heart, muscle, intestine and colon. (For more detailed information please contact our technical advisor.)