Calb1-2A-GFPCre

Nomenclature	C57BL/6Smoc-*Calb1*$^{em1(2A-EGFP-Cre)Smoc}$
Cat. NO.	NM-KI-200141
Strain State	Sperm cryopreservation

Gene Summary

Gene Symbol Calb1	**Synonyms**	CB; Calb; Calb-1; Brain-2
	NCBI ID	12307
	MGI ID	88248
	Ensembl ID	ENSMUSG00000028222
	Human Ortholog	CALB1

Model Description

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.

Research Application: 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..

Validation Data

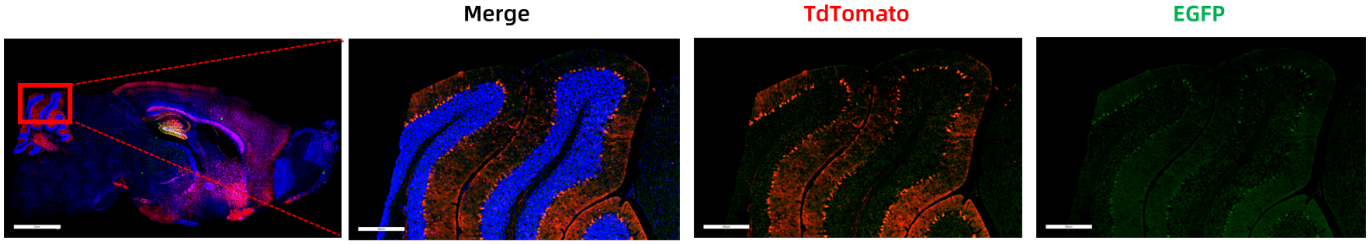

Fig. 1 Cre-mediated recombination in the brain of Calb1$^{GFPCre/+}$; Rosa26$^{tdTomato/+}$ mouse. TdTomato(red) and EGFP(green) expression can be detected in the cerebellar purkinje cells of Calb1$^{GFPCre/+}$; Rosa26$^{tdTomato/+}$ mouse.

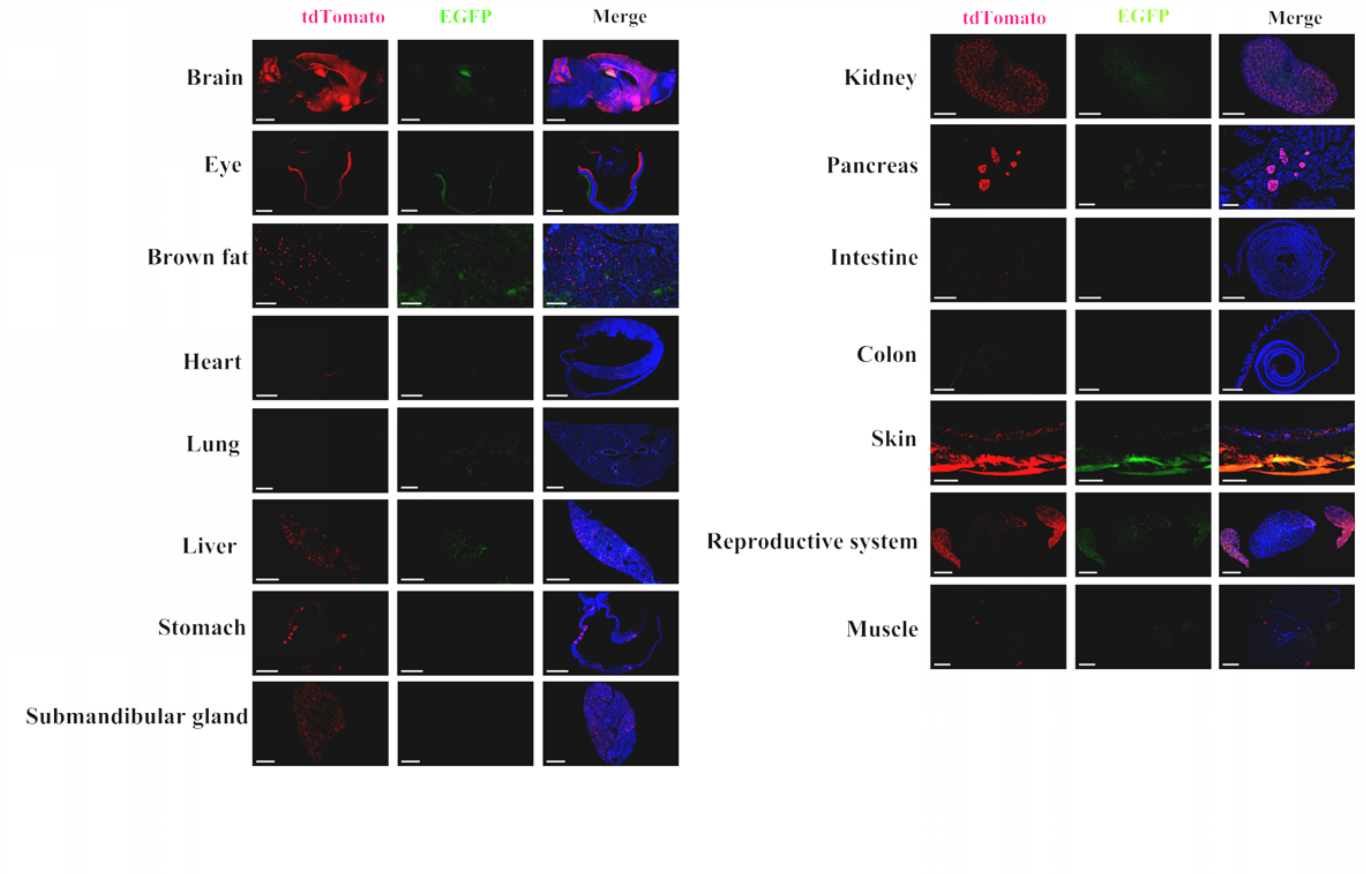

Fig. 2 Detection of tdTomato(red) and EGFP(green) in various tissues of Calb1$^{GFPCre/+}$; Rosa26$^{tdTomato/+}$ mice. Tdtomato and EGFP expression can be detected in the brain, eyes, salivary gland, liver, kidney, pancreas, testis, epididymis, bronchi, brown fat, skin, stomach, heart, muscle, intestine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