

Calb2-IRES-Cre

Nomenclature	C57BL/6Smoc- <i>Calb2</i> ^{em1(IRES-iCre-SV40-pA)Smoc}
Cat. NO.	NM-KI-200102
Strain State	Repository Live

Gene Summary

Gene Symbol Calb2	Synonyms	CR
	NCBI ID	12308
	MGI ID	101914
	Ensembl ID	ENSMUSG00000003657
	Human Ortholog	CALB2

Model Description

A IRES-iCre expression cassette was knocked into the Calb2 gene stop codon site. Calb2 gene encodes calbindin 2. When crossed with a strain carrying a gene flanked by loxP sites, the flanked gene will be removed in cells expressing cre. The protein plays a key role in the nervous system.

Research Application: Cre recombinase tool

*Literature published using this strain should indicate: Calb2-IRES-Cre mice (Cat. NO. NM-KI-200102) were purchased from Shanghai Model Organisms Center, Inc..

Validation Data

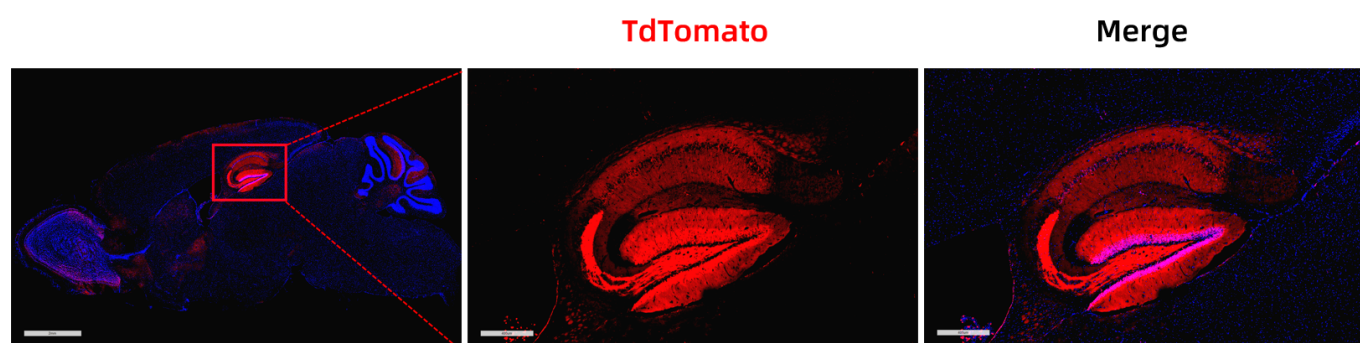


Fig. 1 Cre-mediated recombination in the pituitary gland of Calb2^{Cre/+}; Rosa26^{tdTomato/+} mouse. TdTomato(red) expression can be detected in the hippocampus, cortex, olfactory bulb and

cerebellar purkinje cells of Calb2^{Cre/+}; Rosa26^{tdTomato/+} mouse.

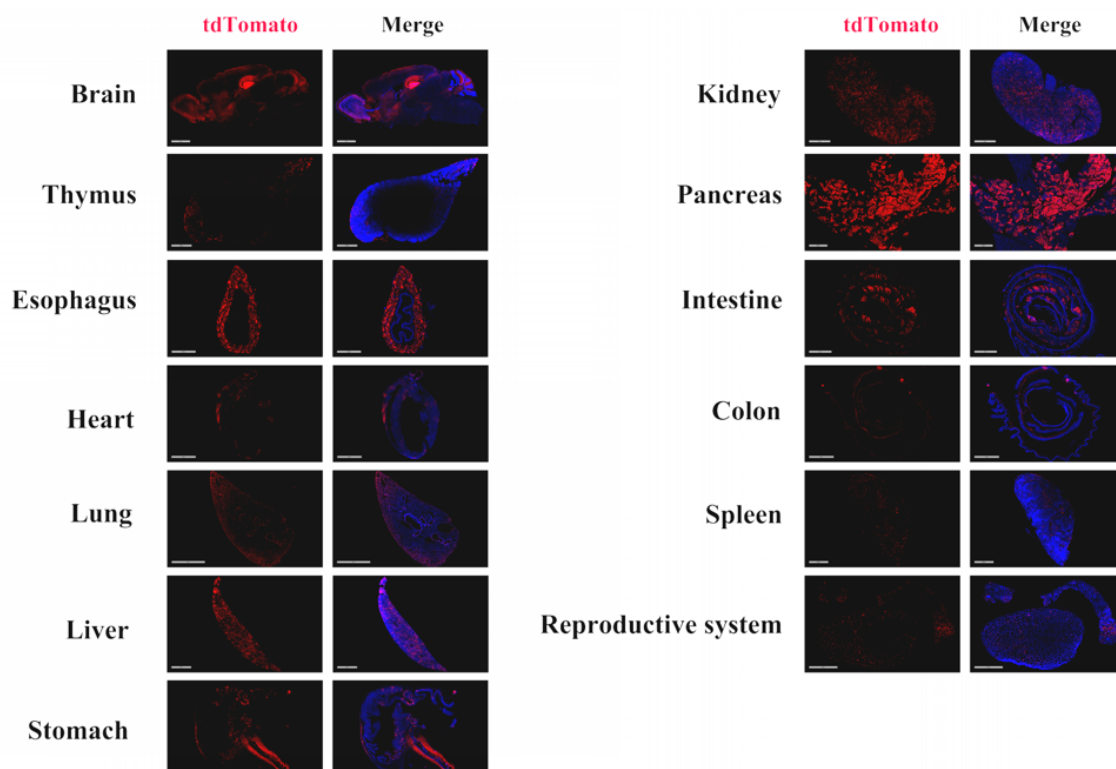


Fig. 2 Detection of tdTomato(red) in various tissues of Calb2^{Cre/+}; Rosa26^{tdTomato/+} mice. Tdtomato expression can be detected in the brain, heart, lung, liver, stomach, kidney, pancreas, intestine, testis, epididymis, spleen, esophagus, thymus and colon. (For more detailed information please contact our technical advisor.)