

# Oxt-IRES-Cre

系統名	C57BL/6Smoc- <i>Oxt</i> <sup>em1(IRES-iCre)Smoc</sup>
SMOC番号	NM-KI-200090
維持形態	Repository Live

## 遺伝子の概要

Gene Symbol Oxt	Synonyms	OT; Oxy
	NCBI ID	<a href="#">18429</a>
	MGI ID	<a href="#">97453</a>
	Ensembl ID	<a href="#">ENSMUSG00000027301</a>
	Human Ortholog	OXT

## 説明

A IRES-iCre expression cassette was knocked into the *Oxt* gene stop codon site.

**応用分野:** Cre recombinase tool; *Oxt*-IRES-Cre mice express Cre recombinase under the control of the endogenous oxytocin (*Oxt*) promoter. Cre recombinase is expressed in the brain. When crossed with a strain carrying a gene flanked by loxP sites, the flanked gene will be removed in neurons expressing oxytocin.

\*Literature published using this strain should indicate: *Oxt*-IRES-Cre mice (Cat. NO. NM-KI-200090) were purchased from Shanghai Model Organisms Center, Inc..

## 表現型データ

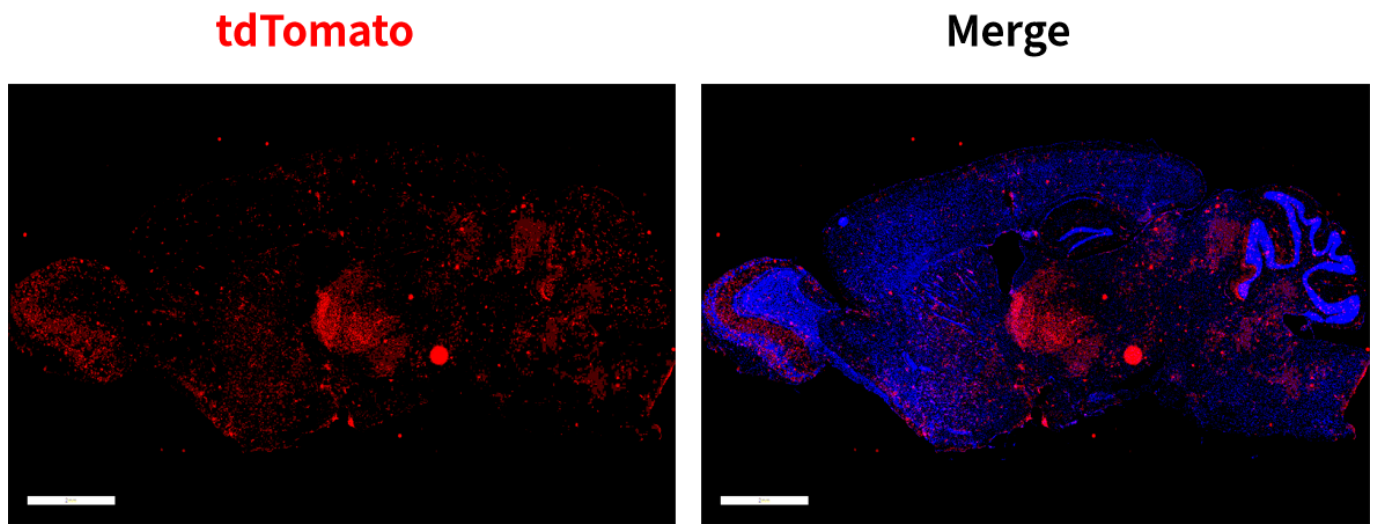


Fig. 1 Cre-mediated recombination in the brain of  $Oxt^{Cre/+}; Rosa26^{tdTomato/+}$  mouse. TdTomato(red) expression can be detected in the olfactory bulb, cortex, thalamus and cerebellum derived from  $Oxt^{Cre/+}; Rosa26^{tdTomato/+}$  mouse.

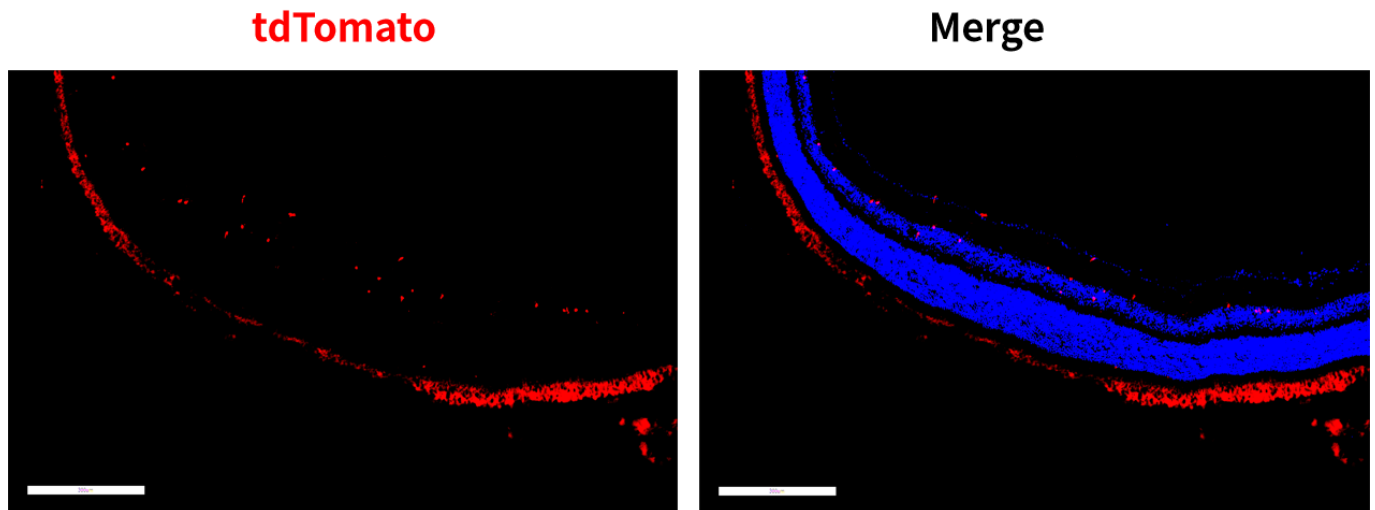


Fig. 2 Cre-mediated recombination in the eyes of  $Oxt^{Cre/+}; Rosa26^{tdTomato/+}$  mouse. TdTomato(red) expression can be detected in the retinal inner nuclear layer and ganglion cell layer derived from  $Oxt^{Cre/+}; Rosa26^{tdTomato/+}$  mouse.

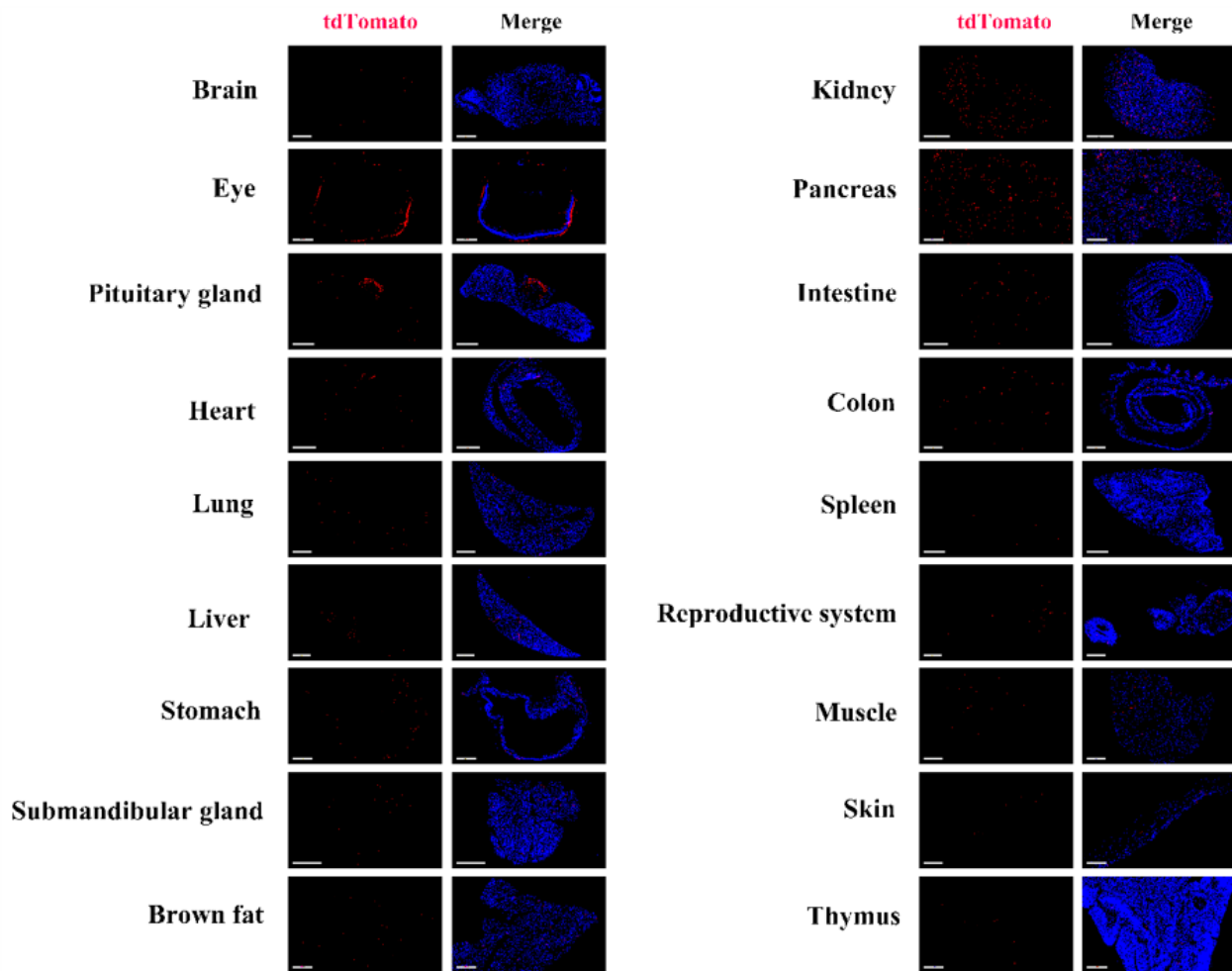


Fig. 3 Detection of tdTomato(red) in various tissues of  $Oxt^{Cre/+}; Rosa26^{tdTomato/+}$  mice. Cre mediated recombination can be detected in some cells of the brain, retina, pituitary gland, heart, lung, liver, salivary gland, brown fat, kidney, pancreas, intestine, colon, spleen, ovary, skeletal muscle, skin and thymus. (For more detailed information please contact our technical advisor.)