

# Slc17a6-IRES-Cre

系統名	C57BL/6Smoc- <i>Slc17a6</i> <sup>em1(IRES-iCre)Smoc</sup>
SMOC番号	NM-KI-200087
維持形態	Repository Live

## 遺伝子の概要

Gene Symbol Slc17a6	Synonyms	DNPI; VGLUT2; 2900073D12Rik
	NCBI ID	<a href="#">140919</a>
	MGI ID	<a href="#">2156052</a>
	Ensembl ID	<a href="#">ENSMUSG00000030500</a>
	Human Ortholog	SLC17A6

## 説明

A IRES-iCre expression cassette was knocked into the *Slc17a6* gene stop codon site.

**応用分野:** Cre recombinase tool; The glutamate transporter 2 gene (*Vglut2/Slc17a6*) is expressed in multiple brain regions. When crossed with a strain carrying a gene flanked by loxP sites, the flanked gene will be removed in cells expressing cre.

\*Literature published using this strain should indicate: *Slc17a6*-IRES-Cre mice (Cat. NO. NM-KI-200087) were purchased from Shanghai Model Organisms Center, Inc..

## 表現型データ

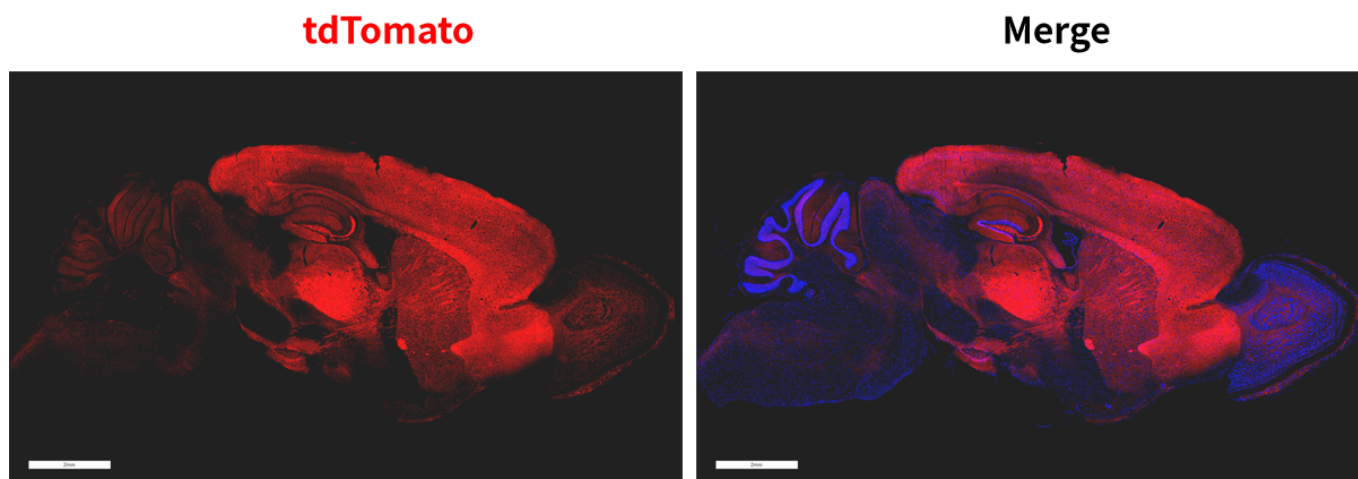


Fig. 1 Cre-mediated recombination in the brain of  $Slc17a6^{Cre/+}; Rosa26^{tdTomato/+}$  mouse. TdTomato(red) expression can be detected in the cortex, hippocampus and thalamus derived from  $Slc17a6^{Cre/+}; Rosa26^{tdTomato/+}$  mouse.

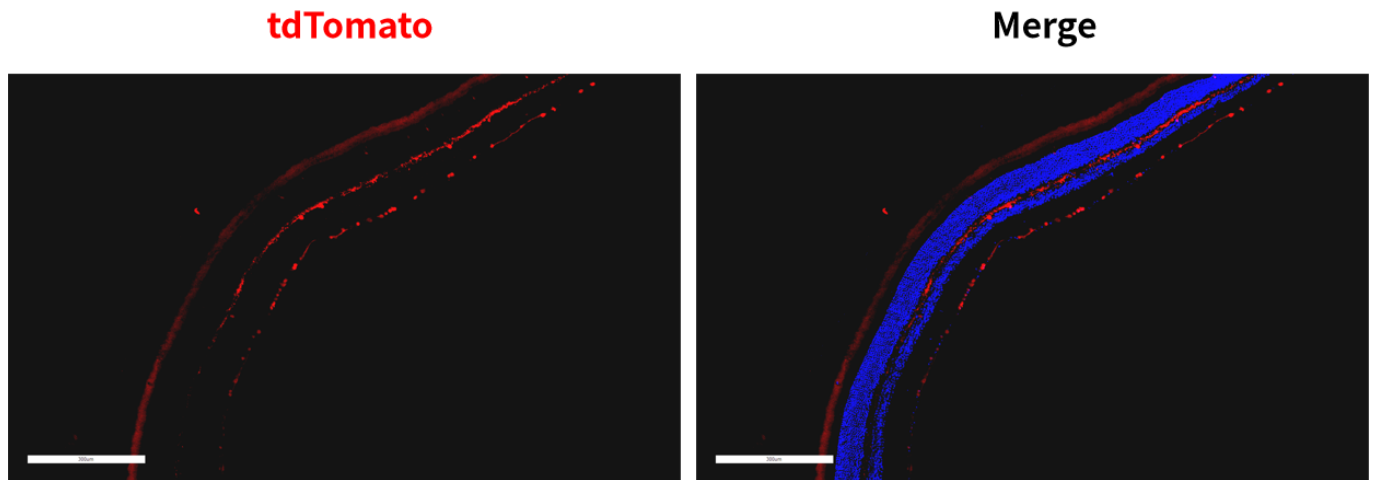


Fig. 2 Cre-mediated recombination in the retina of  $Slc17a6^{Cre/+}; Rosa26^{tdTomato/+}$  mouse. TdTomato(red) expression can be detected in the retinal ganglion cell layer derived from  $Slc17a6^{Cre/+}; Rosa26^{tdTomato/+}$  mouse.

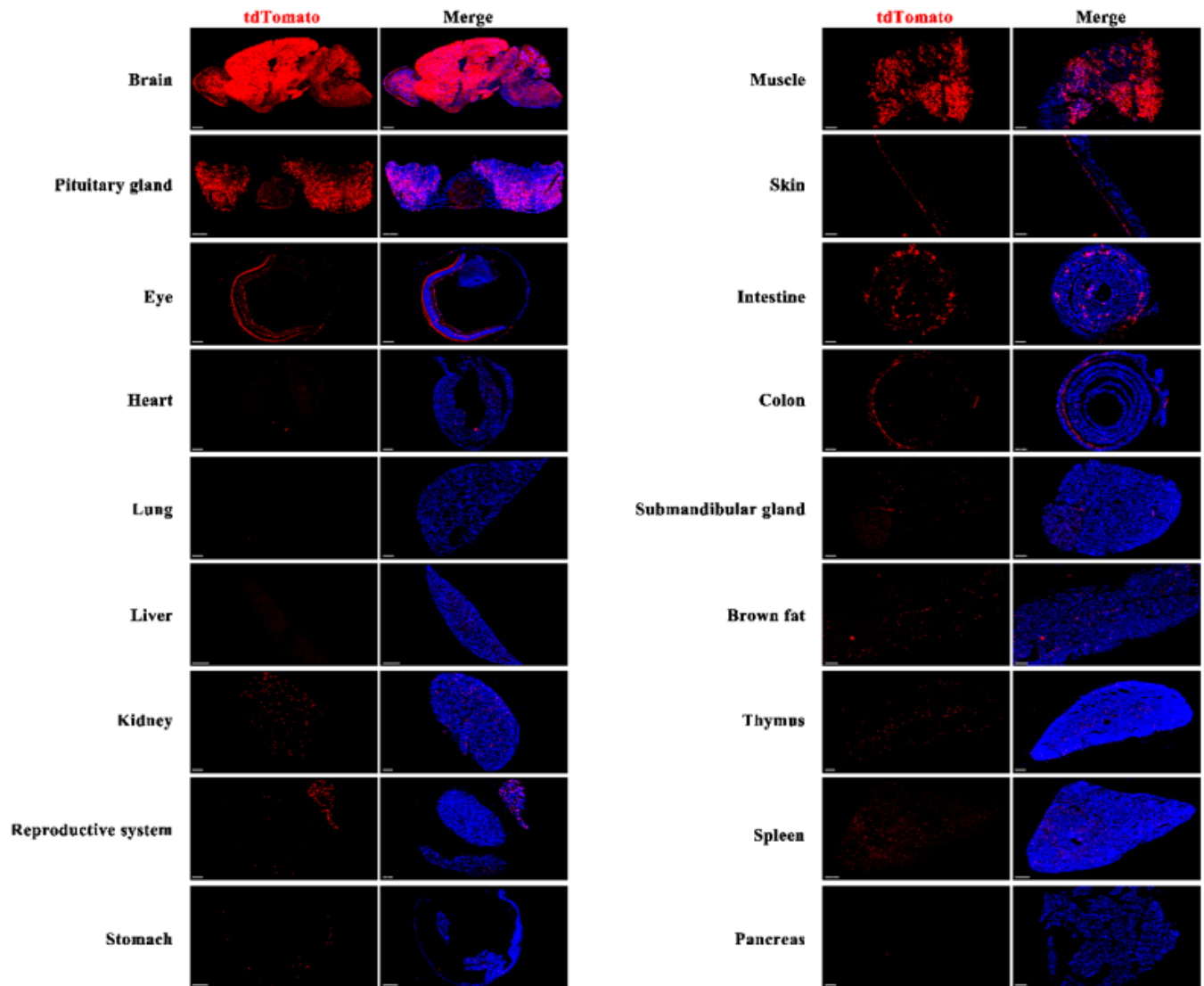


Fig. 3 Detection of tdTomato(red) in various tissues of  $Slc17a6^{Cre/+}; Rosa26^{tdTomato/+}$  mice. Cre mediated recombination can be detected in the cortex, hippocampus, striatum and thalamus. TdTomato can also be detected in individual cells of the retinal ganglion cell layer and extranet layer, pituitary gland, heart, kidney, testis, epididymis, brown fat, thymus, spleen, stomach, skeletal muscle, intestine, colon, salivary gland and pancreas islet. Tdtomato expression can not be observed in the lung, liver or skin. (For more detailed information please contact our technical advisor.)

## 出版物

[Ameliorating parkinsonian motor dysfunction by targeting histamine receptors in entopeduncular nucleus-thalamus circuitry](#)

References: PNAS