

# Oprk1-2A-Cre

系統名	C57BL/6Smoc- <i>Oprk1</i> <sup>em1(2A-Cre)Smoc</sup>
SMOC番号	NM-KI-200299
維持形態	Sperm cryopreservation

## 遺伝子の概要

Gene Symbol Oprk1	Synonyms	KOR; R21; KOR-1; MSL-1; Oprk2; K-OR-1
	NCBI ID	<a href="#">18387</a>
	MGI ID	<a href="#">97439</a>
	Ensembl ID	<a href="#">ENSMUSG00000025905</a>
	Human Ortholog	OPRK1

## 説明

2A-Cre expression cassette was knocked into the Oprk1 gene stop codon site. Oprk1 (opioid receptor, kappa 1) encodes opioid receptor which was 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. This opioid receptor plays a role in the perception of pain and mediating the hypolocomotor, analgesic and aversive actions of synthetic opioids.

**応用分野:** Cre recombinase tool; Neuroscience

\*Literature published using this strain should indicate: Oprk1-2A-Cre mice (Cat. NO. NM-KI-200299) were purchased from Shanghai Model Organisms Center, Inc..

## 表現型データ

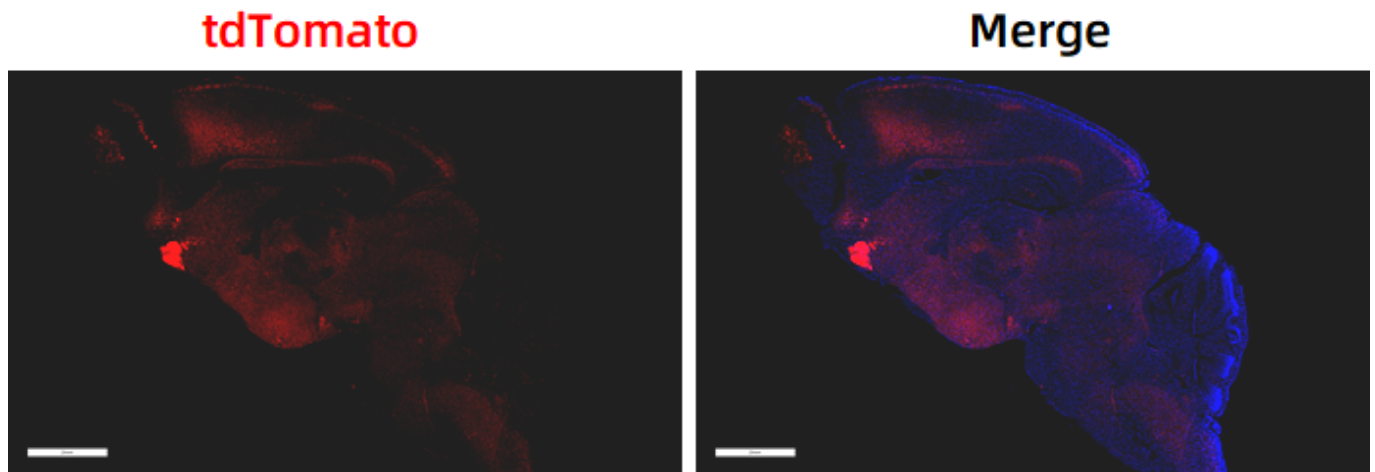


Fig. 1 Cre-mediated recombination in the brain of  $Oprk1^{Cre/+}; Rosa26^{tdTomato/+}$  mouse. TdTomato(red) expression can be detected in the brain of  $Oprk1^{Cre/+}; Rosa26^{tdTomato/+}$  mouse.

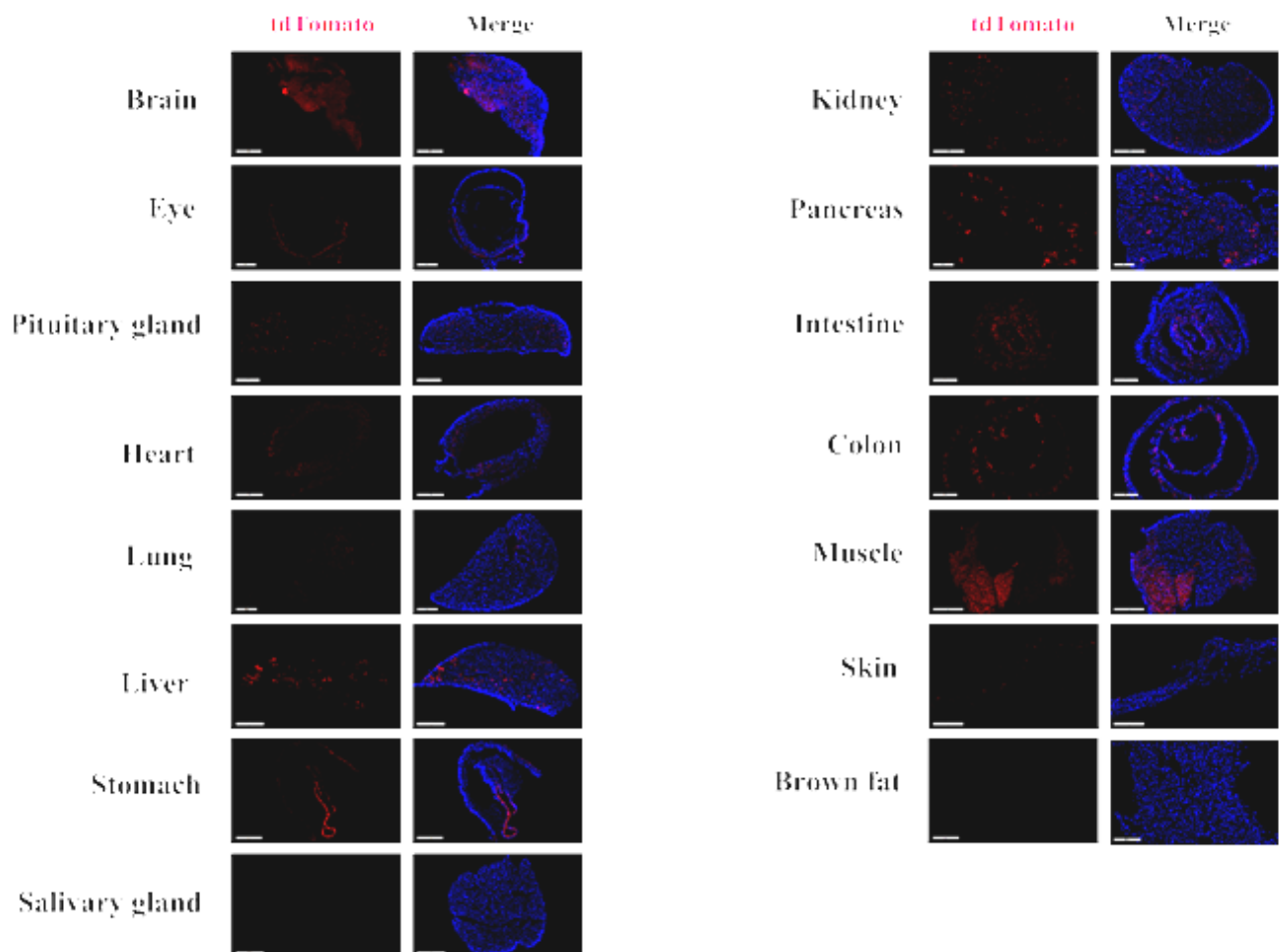


Fig. 2 Detection of tdTomato(red) in various tissues of  $Oprk1^{Cre/+}; Rosa26^{tdTomato/+}$  mice. Tdtomato was also expressed in some cells of the liver, stomach, intestine, colon, muscle, eyes, heart, spleen and lung. Tdtomato expression can not be observed in the salivary gland, brown fat and skin.(For more detailed information please contact our technical advisor.)

