

# Wnt1-Dre

系統名	C57BL/6Smoc- <i>Wnt1</i> <sup>em1(Dre-Wpre-polyA)Smoc</sup>
SMOC番号	NM-KI-200176
維持形態	Sperm cryopreservation

## 遺伝子の概要

Gene Symbol Wnt1	<b>Synonyms</b>	sw; Int-1; Wnt-1; swaying
	<b>NCBI ID</b>	<a href="#">22408</a>
	<b>MGI ID</b>	<a href="#">98953</a>
	<b>Ensembl ID</b>	<a href="#">ENSMUSG00000022997</a>
	<b>Human Ortholog</b>	WNT1

## 説明

A Dre-Wpre-polyA expression cassette was knocked into the Wnt1 gene start codon site. Wnt1 gene is involved in stem cell poliferation in multiple systems, including the hematopoietic system and the embryonic nervous system. This strain may be useful for studying central nervous system development. When crossed with a strain carrying a gene flanked by rox sites, the flanked gene will be removed in cells expressing dre.

**応用分野:** Dre recombinase tool; Neurosciences

\*Literature published using this strain should indicate: Wnt1-Dre mice (Cat. NO. NM-KI-200176) were purchased from Shanghai Model Organisms Center, Inc..

## 表現型データ

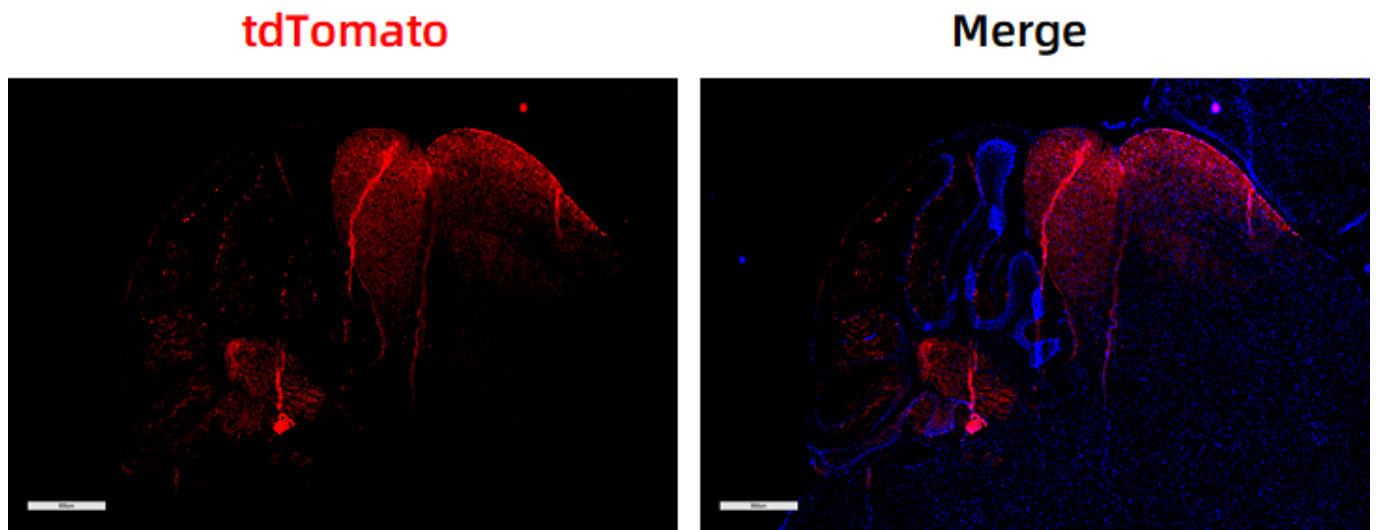


Fig. 1 Dre-mediated recombination in the brain of  $Wnt1^{Dre/+}$ ;  $Rosa26^{tdTomato/+}$  mouse. TdTomato(red) expression can be detected in the cerebellar purkinje cells and epithalamus cells of  $Wnt1^{Dre/+}$ ;  $Rosa26^{tdTomato/+}$  mouse.

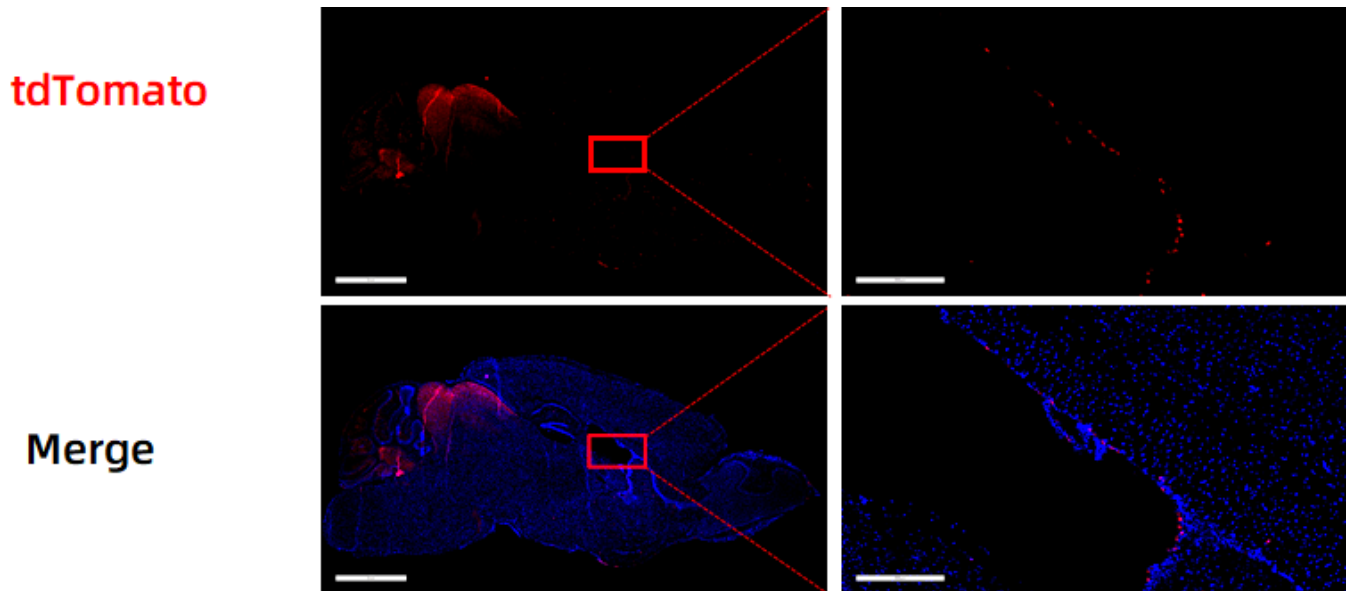


Fig. 2 Dre-mediated recombination in the brain of  $Wnt1^{Dre/+}$ ;  $Rosa26^{tdTomato/+}$  mouse. TdTomato(red) expression can be detected in some cells of the ventricle of  $Wnt1^{Dre/+}$ ;  $Rosa26^{tdTomato/+}$  mouse.

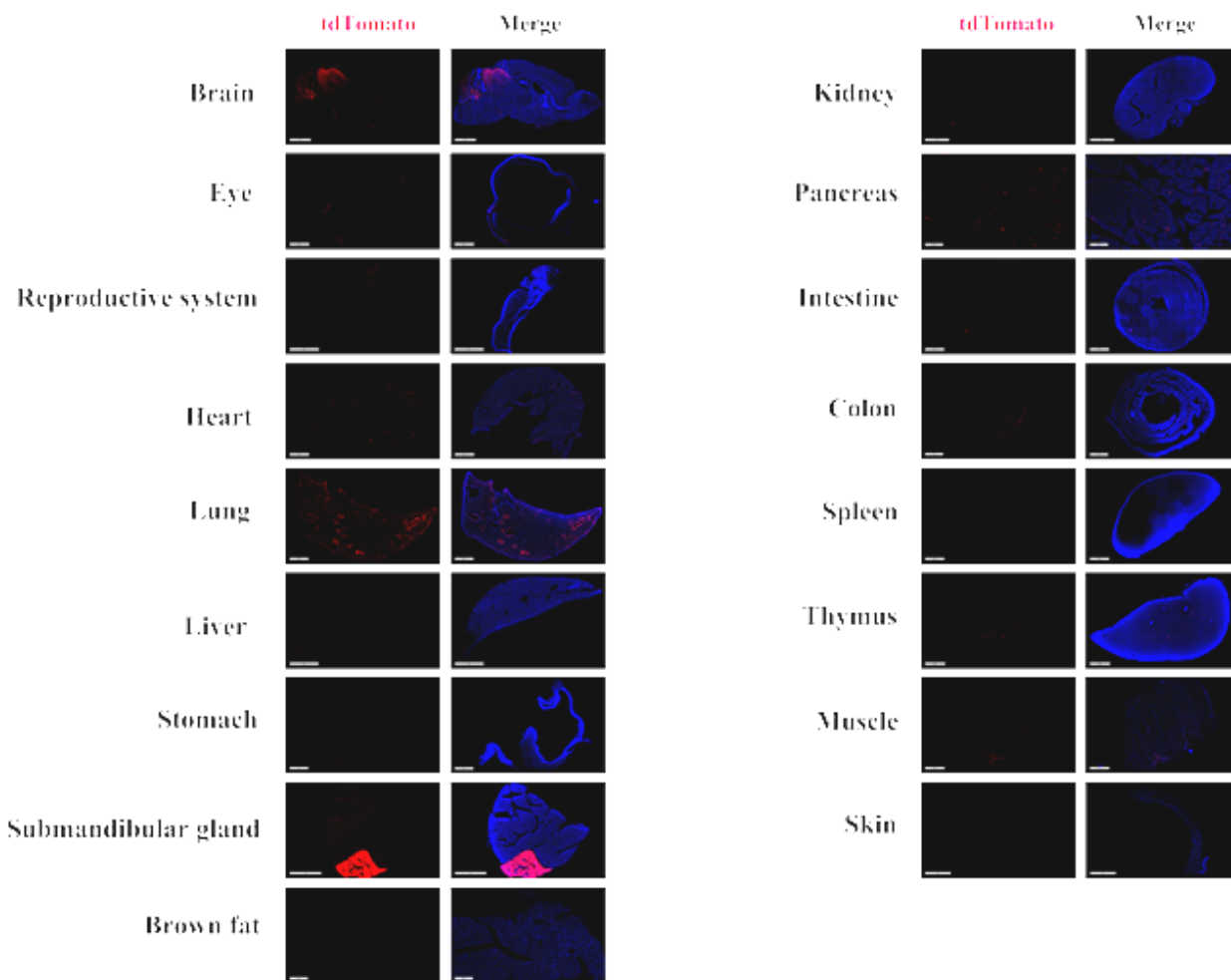


Fig. 3 Detection of tdTomato(red) in various tissues of  $Wnt1^{Dre/+}; Rosa26^{tdTomato/+}$  mice. Dre mediated recombination can be detected in some cells of the lung, salivary gland, brain, eyes, stomach, thymus, colon, intestinal crypt, ovary, liver and pancreas. Tdtomato expression can not be observed in the brown fat, heart, kidney, spleen or muscle. (For more detailed information please contact our technical advisor.)