

# Prox1-IRES-CreERT2

<b>Nomenclature</b>	C57BL/6Smoc- <i>Prox1</i> <sup>em1(IRES-CreERT2-pA)Smoc</sup>
<b>Cat. NO.</b>	NM-KI-200119
<b>Strain State</b>	Repository Live

## Gene Summary

<b>Gene Symbol</b> Prox1	<b>Synonyms</b>	A230003G05Rik
	<b>NCBI ID</b>	<a href="#">19130</a>
	<b>MGI ID</b>	<a href="#">97772</a>
	<b>Ensembl ID</b>	<a href="#">ENSMUSG00000010175</a>
	<b>Human Ortholog</b>	PROX1

## Model Description

A IRES-CreERT2-pA expression cassette was knocked into the Prox1 gene stop codon site. Prox1 encodes a transcription factor (prospero-related homeobox 1) that is necessary for the formation and maintenance of lymphatic vessels. When Prox1-IRES-CreERT2 mice are bred with mice containing loxP-flanked sequence, tamoxifen-inducible Cre-mediated recombination will result in deletion of the floxed sequences in PROX1 positive cells.

**Research Application:** Cre recombinase tool; Neuroscience

\*Literature published using this strain should indicate: Prox1-IRES-CreERT2 mice (Cat. NO. NM-KI-200119) were purchased from Shanghai Model Organisms Center, Inc..

## Validation Data

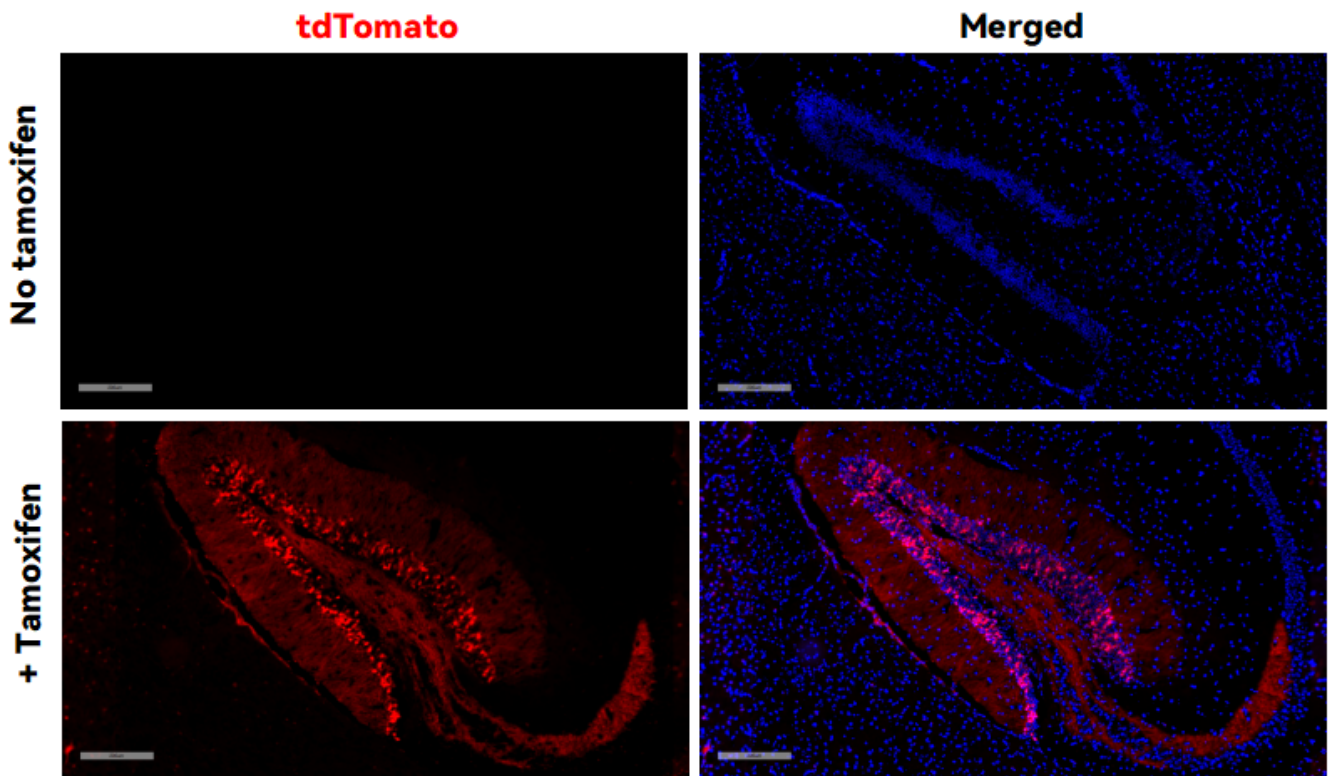


Fig1. CreERT2-mediated recombination in Dentate Gyrus of  $Prox1^{CreERT2/+}; Rosa26^{tdTomato/+}$  mouse.

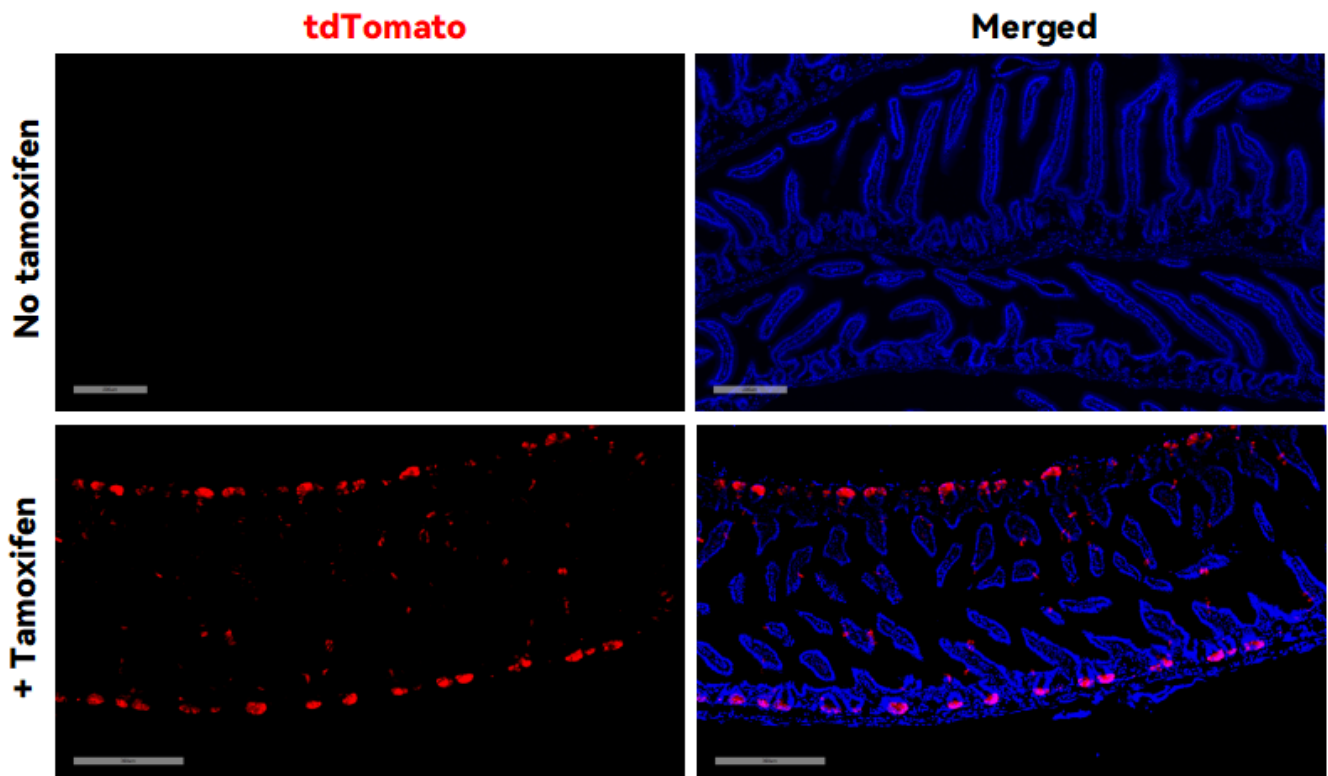


Fig2. CreERT2-mediated recombination in Small intestine of  $Prox1^{CreERT2/+}; Rosa26^{tdTomato/+}$  mouse.

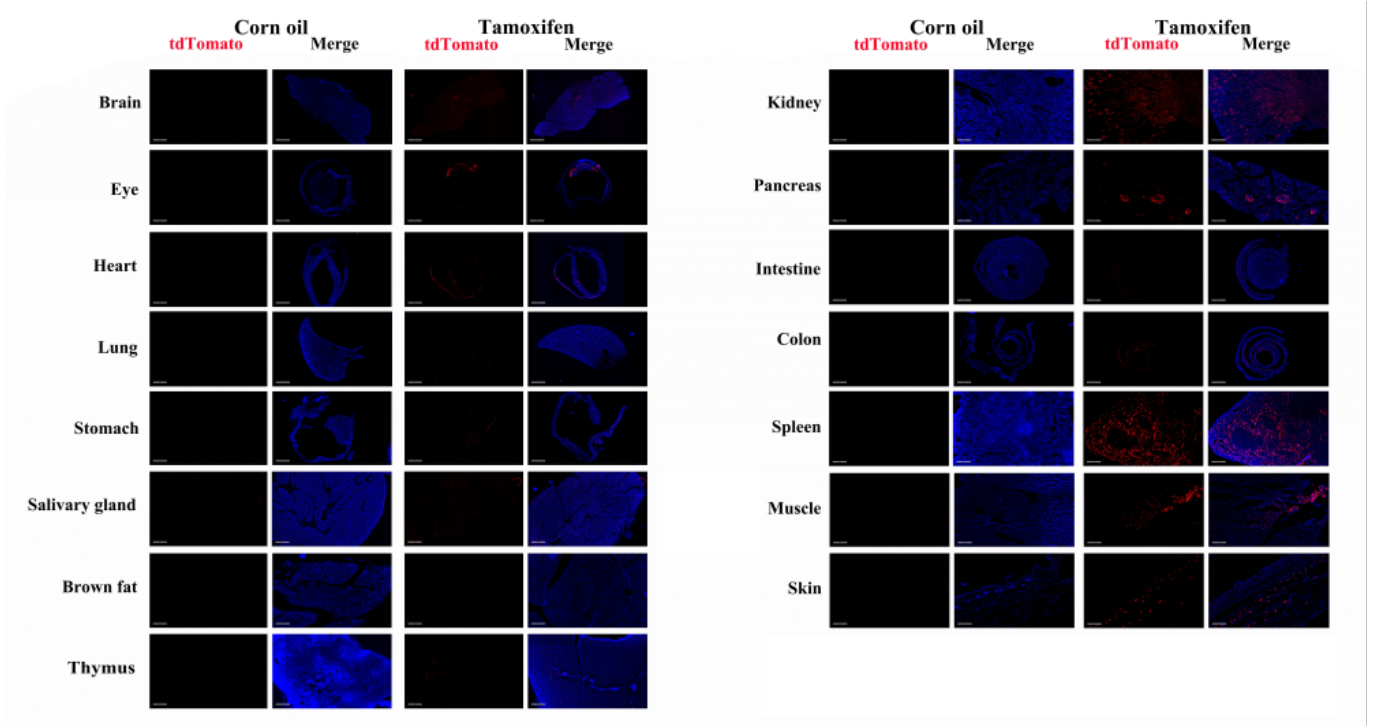


Fig3. Detection of tdTomato(red) in various tissues of Prox1CreERT2/+;Rosa26tdTomato/+ mice. Labeling was also observed in pituitary gland, retina, heart, thymus, stomach, lung, submandibular gland, muscle, ovary, spleen, pancreas and kidney. (For more information please contact: 400-728-0660.)