

# Trpv1-IRES-Cre

<b>Nomenclature</b>	C57BL/6Smoc- <i>Trpv1</i> <sup>em1(Myc-IRES-Cre)Smoc</sup>
<b>Cat. NO.</b>	NM-KI-200139
<b>Strain State</b>	Repository Live

## Gene Summary

<b>Gene Symbol</b> Trpv1	<b>Synonyms</b>	Vr1; VR-1; OTRPC1; TRPV1beta; TRPV1alpha
	<b>NCBI ID</b>	<a href="#">193034</a>
	<b>MGI ID</b>	<a href="#">1341787</a>
	<b>Ensembl ID</b>	<a href="#">ENSMUSG00000005952</a>
	<b>Human Ortholog</b>	TRPV1

## Model Description

A Myc-IRES-Cre expression cassette was knocked into the Trpv1 gene stop codon site. Trpv1 is known as transient receptor potential cation channel, subfamily V, member 1. When crossed with a strain carrying a gene flanked by loxP sites, the flanked gene will be removed in cells expressing cre. This strain may be useful for studying the pain caused by heat and capsaicin.

**Research Application:** Cre recombinase tool

\*Literature published using this strain should indicate: Trpv1-IRES-Cre mice (Cat. NO. NM-KI-200139) were purchased from Shanghai Model Organisms Center, Inc..

## Validation Data

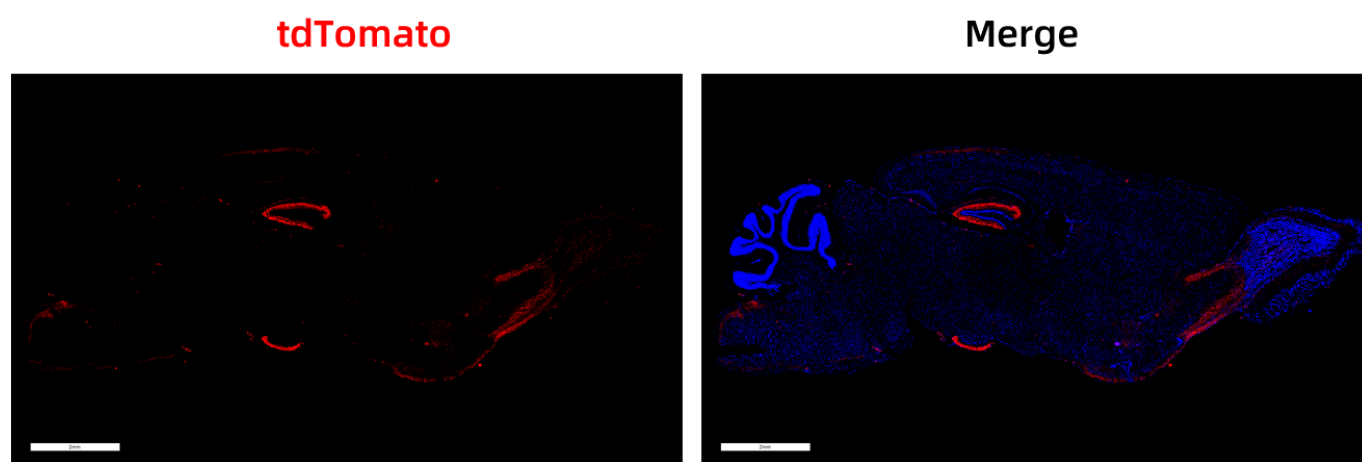


Fig. 1 Cre-mediated recombination in the brain of  $Trpv1^{Cre/+}; Rosa26^{tdTomato/+}$  mouse. TdTomato(red) expression can be detected in the dentate gyrus of  $Trpv1^{Cre/+}; Rosa26^{tdTomato/+}$  mouse.

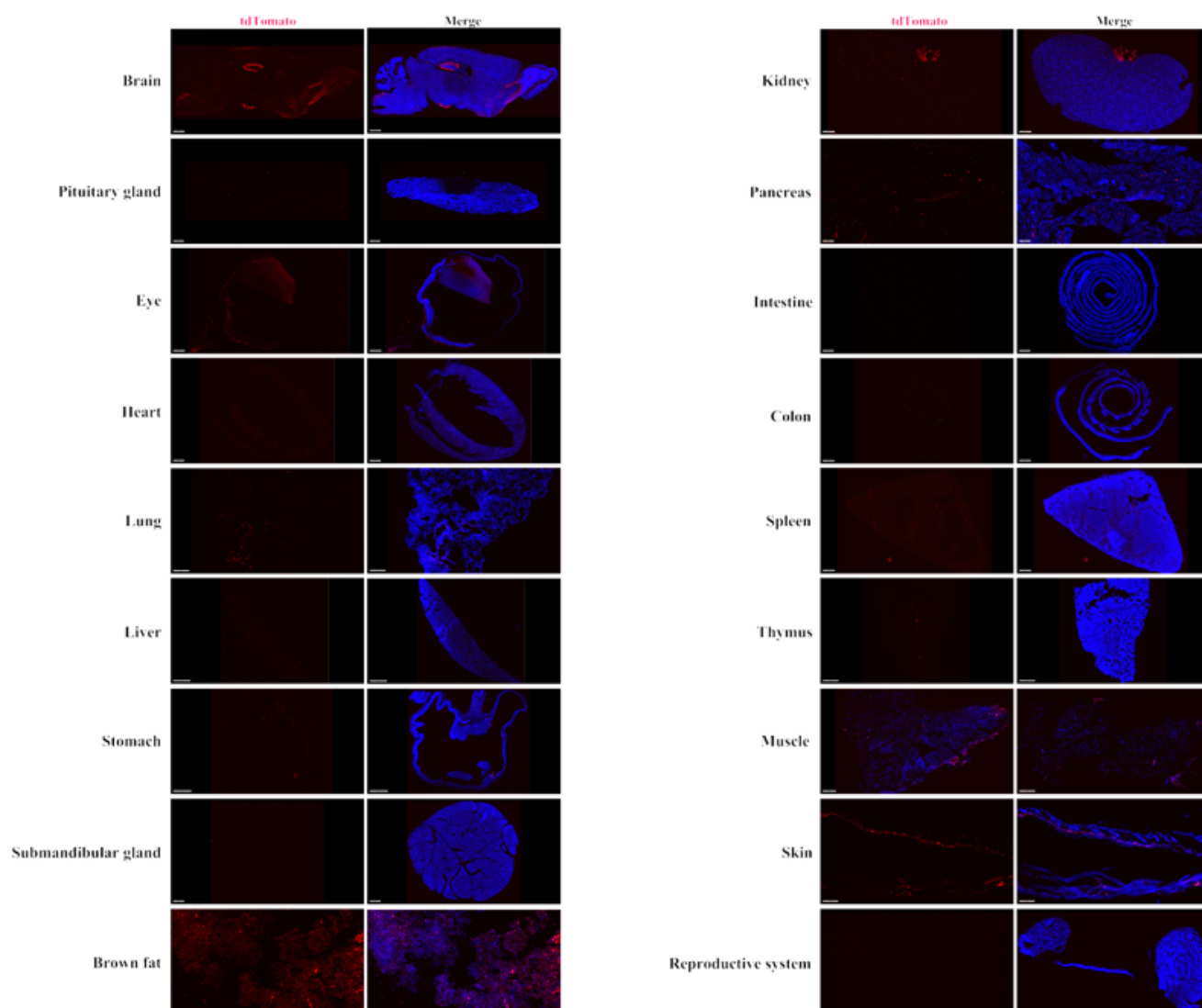


Fig. 2 Detection of tdTomato(red) in various tissues of  $Trpv1^{Cre/+}; Rosa26^{tdTomato/+}$  mice. Tdtomato is expressed in the brown fat, pancreas, kidney, retina, brain, pituitary gland, heart, lung, liver, stomach, salivary gland and skin. Tdtomato expression can also be observed in individual cells of the testis, epididymis, muscle, spleen, thymus, intestine and colon. (For more detailed

information please contact our technical advisor.)

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