Trpv1-IRES-Cre

Nomenclature	C57BL/6Smoc-*Trpv1*$^{em1(Myc\text{-}IRES\text{-}Cre)Smoc}$
Cat. NO.	NM-KI-200139
Strain State	Repository Live

Gene Summary

Gene Symbol **Trpv1**	**Synonyms**	Vr1; VR-1; OTRPC1; TRPV1beta; TRPV1alpha
	NCBI ID	193034
	MGI ID	1341787
	Ensembl ID	ENSMUSG00000005952
	Human Ortholog	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

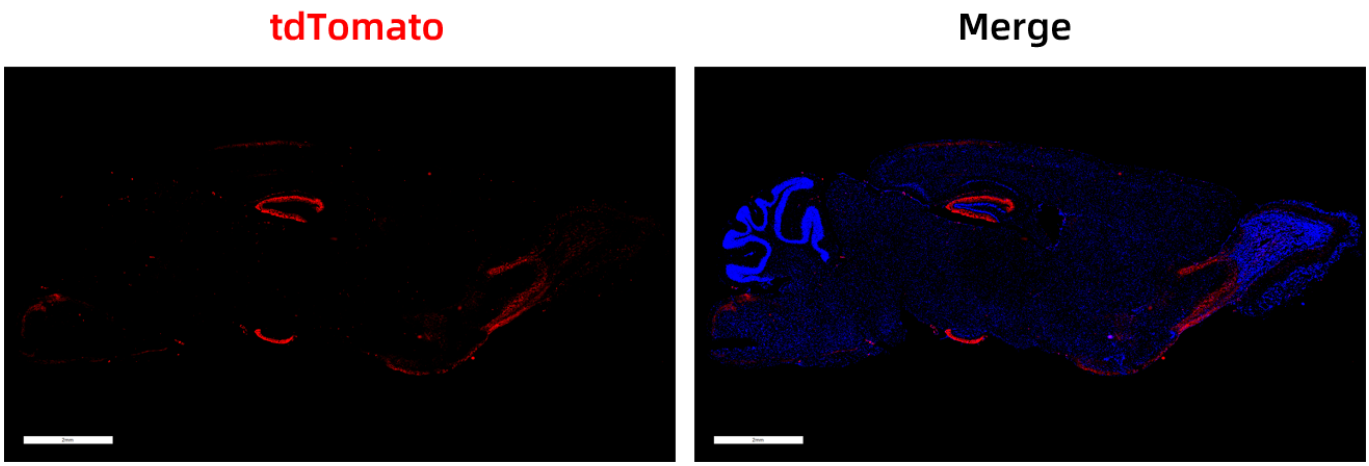

Fig. 1 Cre-mediated recombination in the brain of Trpv1$^{Cre/+}$; Rosa26$^{tdTomato/+}$ mouse. TdTomato(red) expression can be detected in the dentate gyrus of Trpv1$^{Cre/+}$; Rosa26$^{tdTomato/+}$ mouse.

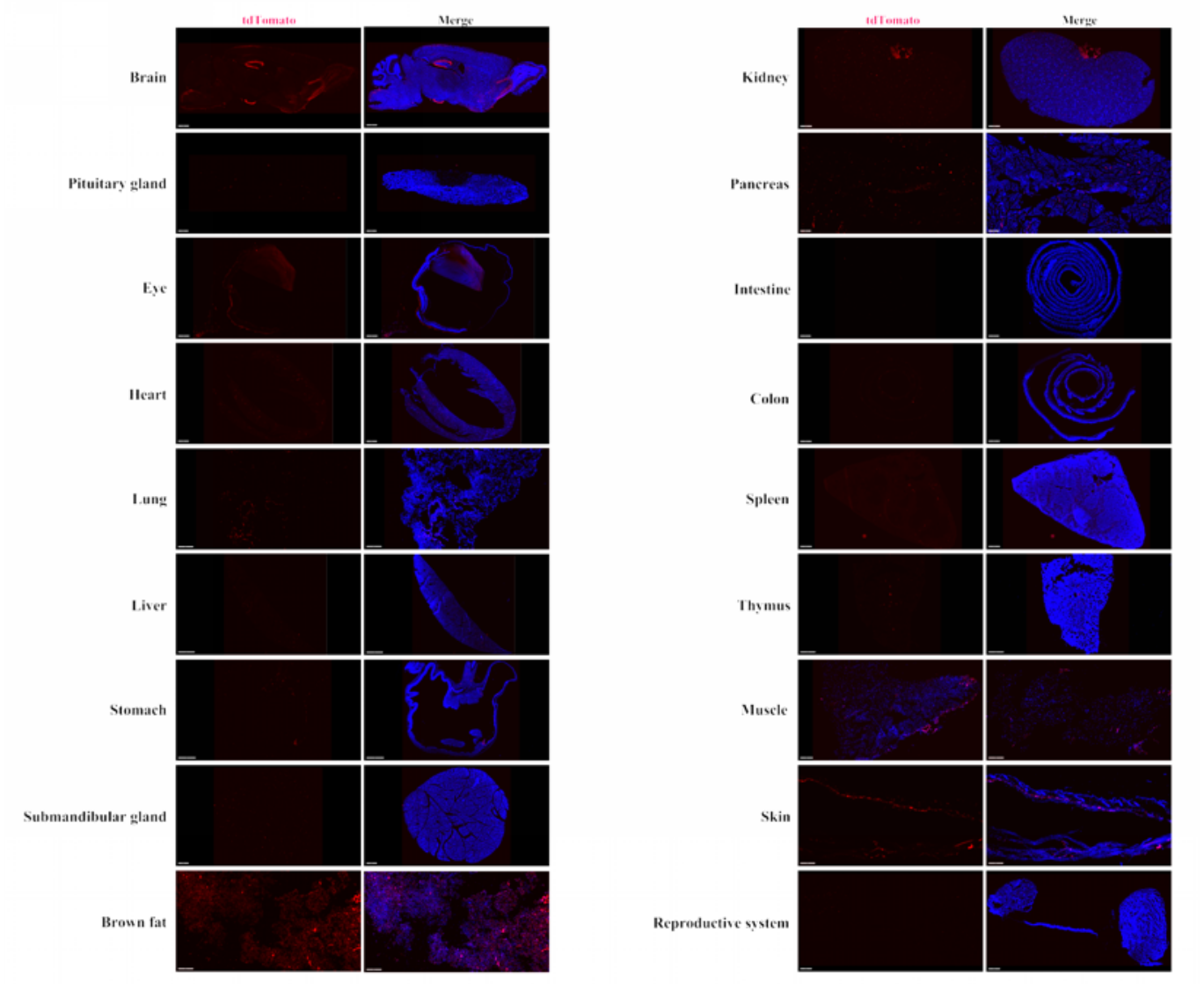

Fig. 2 Detection of tdTomato(red) in various tissues of Trpv1$^{Cre/+}$; Rosa26$^{tdTomato/+}$ mice. Tdtomato is expressed in the brown fat, pancreas, kidney, retina, brain, pituitary gland, heart, lung, liver, stomach, salivary gland and skin. Tdtomato expression can also be observed in individual cells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

information please contact our technical advisor.)