

# Ntrk2-CreERT2

<b>Nomenclature</b>	C57BL/6Smoc- <i>Ntrk2</i> <sup>em1(CreERT2-WPRE-polyA)Smoc</sup>
<b>Cat. NO.</b>	NM-KI-200146
<b>Strain State</b>	Sperm cryopreservation

## Gene Summary

<b>Gene Symbol</b> Ntrk2	<b>Synonyms</b>	Tkrb; trkB; trk-B; GP145-TrkB/GP95-TrkB
	<b>NCBI ID</b>	<a href="#">18212</a>
	<b>MGI ID</b>	<a href="#">97384</a>
	<b>Ensembl ID</b>	<a href="#">ENSMUSG00000055254</a>
	<b>Human Ortholog</b>	NTRK2

## Model Description

A CreERT2-WPRE-polyA expression cassette was knocked into the Ntrk2 gene start codon site. Ntrk2 encodes the tropomyosin receptor kinase B (TrkB), transmission through which neurotrophic factors modify differentiation, plasticity, and synaptic transmission. When these Ntrk2-CreERT2 mice are bred with mice containing a loxP-flanked sequence of interest, tamoxifen-inducible, Cre-mediated recombination will result in deletion of the flanked sequences in Ntrk2 expressing cells.

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

\*Literature published using this strain should indicate: Ntrk2-CreERT2 mice (Cat. NO. NM-KI-200146) were purchased from Shanghai Model Organisms Center, Inc..

## Validation Data

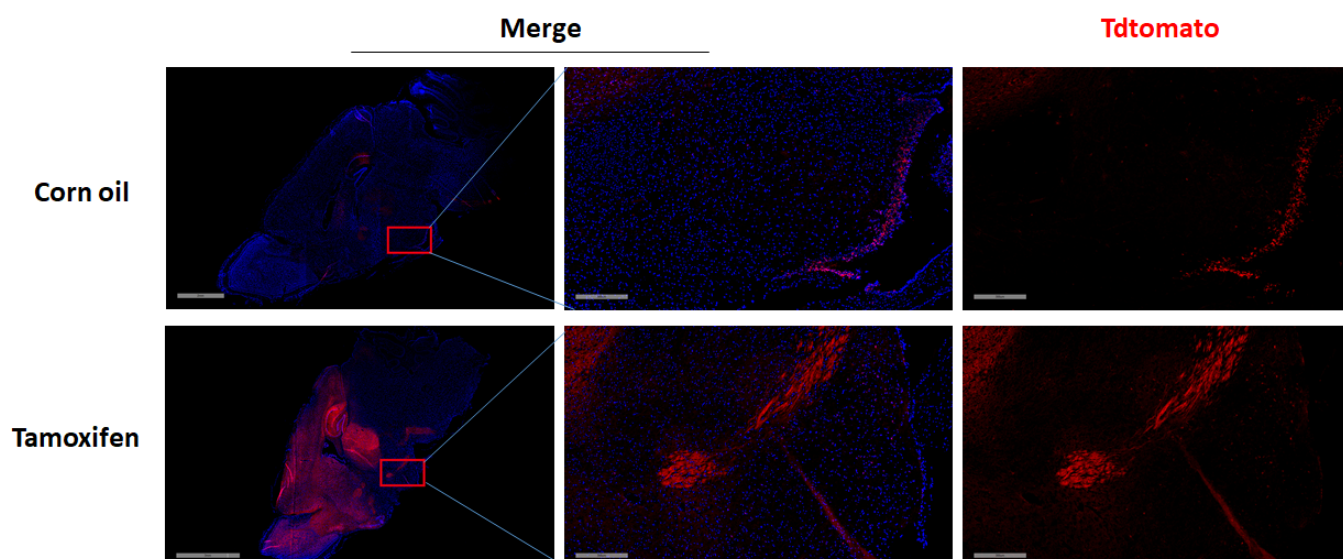


Fig. 1 CreERT2-mediated recombination in the multiple brain regions of Ntrk2-CreERT2; Rosa26-tdTomato mice after tamoxifen treatment.

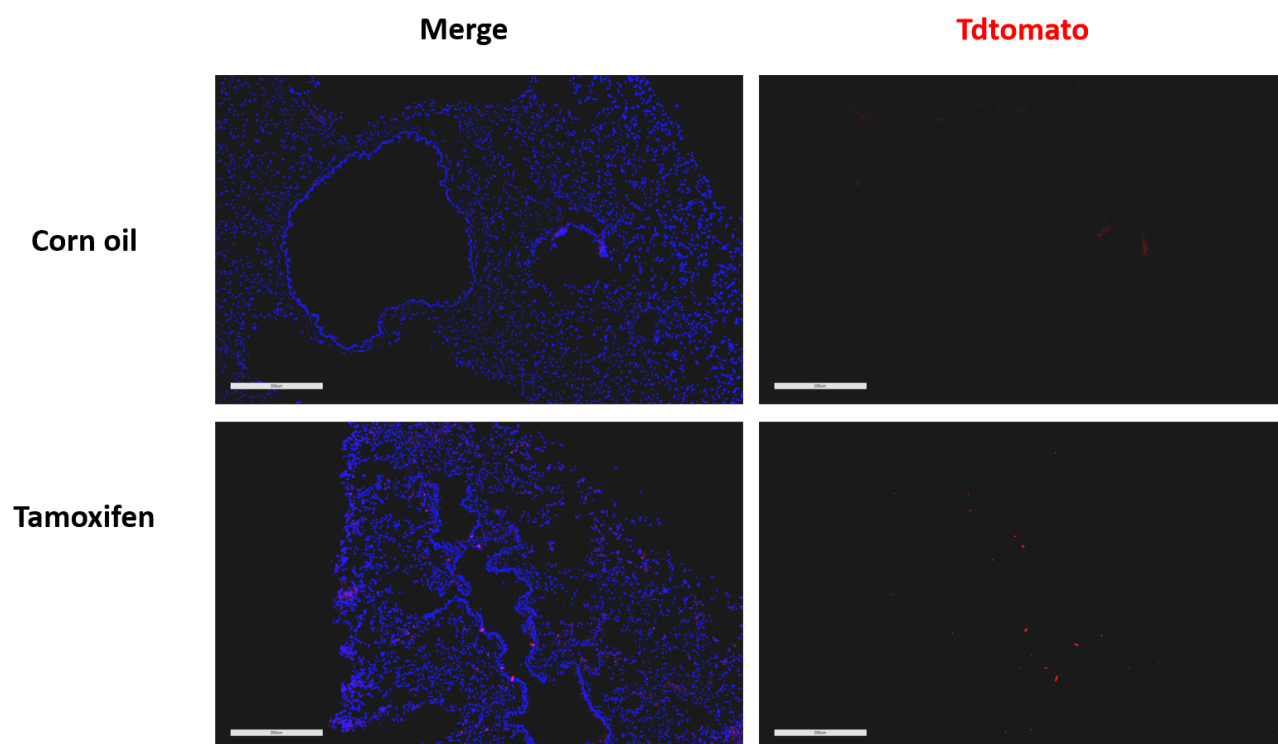


Fig. 2 CreERT2-mediated recombination in individual cells in the lungs of Ntrk2-CreERT2; Rosa26-tdTomato mice after tamoxifen treatment.

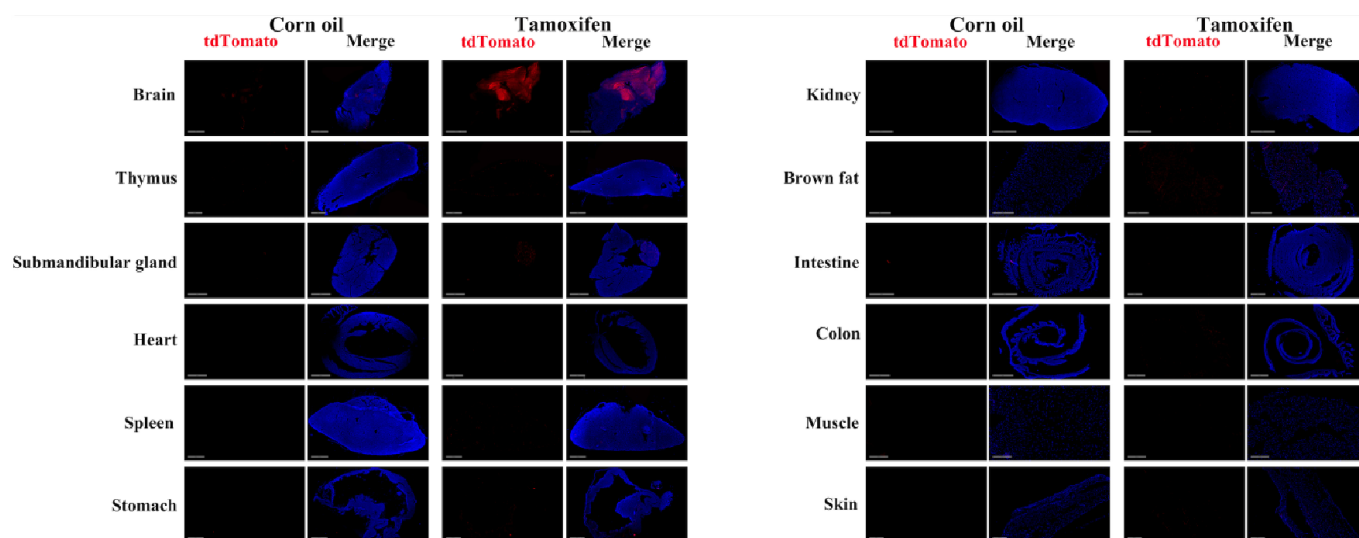


Fig. 3 Tdtomato was also abundantly expressed in brown fat, and expressed in thymus, salivary gland, spleen, large intestine, stomach and skin. There was a small amount of expression in kidney, and no expression in the heart, small intestine and muscle. (For more information please contact: 400-728-0660.)