

# Nkx3-1-IRES-CreERT2

<b>Nomenclature</b>	C57BL/6Smoc- <i>Nkx3</i> -1 <sup>em1(IRES-CreERT2)</sup> Smoc
<b>Cat. NO.</b>	NM-KI-200071
<b>Strain State</b>	Embryo cryopreservation

## Gene Summary

<b>Gene Symbol</b> Nkx3-1	<b>Synonyms</b>	Bax; NKX3A; NKX3.1; Nkx-3.1; bagpipe
	<b>NCBI ID</b>	<a href="#">18095</a>
	<b>MGI ID</b>	<a href="#">97352</a>
	<b>Ensembl ID</b>	<a href="#">ENSMUSG00000022061</a>
	<b>Human Ortholog</b>	NKX3-1

## Model Description

A IRES-CreERT2 expression cassette was knocked into the Nkx3-1 gene stop codon site.

**Research Application:** This gene encodes a homeobox-containing transcription factor. This transcription factor functions as a negative regulator of epithelial cell growth in prostate tissue. This strain is useful in studying prostate.

\*Literature published using this strain should indicate: Nkx3-1-IRES-CreERT2 mice (Cat. NO. NM-KI-200071) were purchased from Shanghai Model Organisms Center, Inc..

## Validation Data

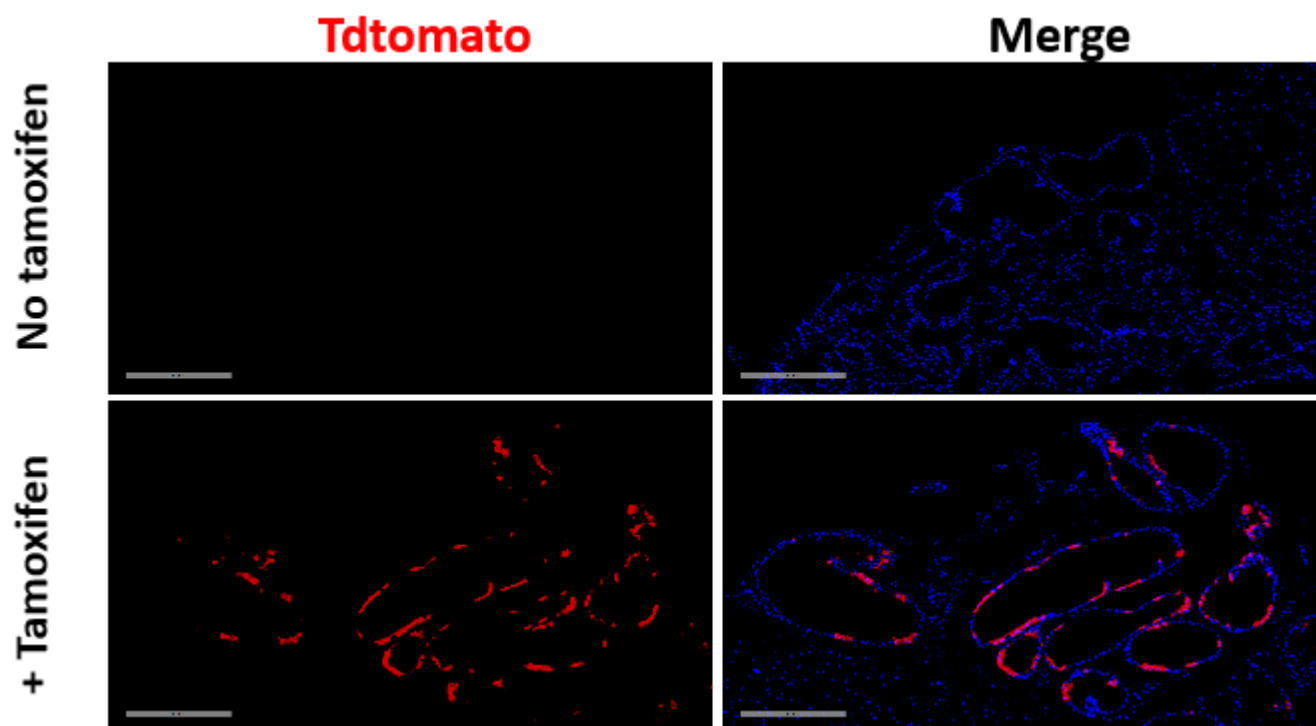


Fig. 1 CreERT2-mediated recombination in the prostate of  $Nkx3-1^{CreERT2/+}; Rosa26^{tdTomato/+}$  mouse. TdTomato(red) expression can be detected in the prostate lumen cells of  $Nkx3-1^{CreERT2/+}; Rosa26^{tdTomato/+}$  mouse after tamoxifen treatment.

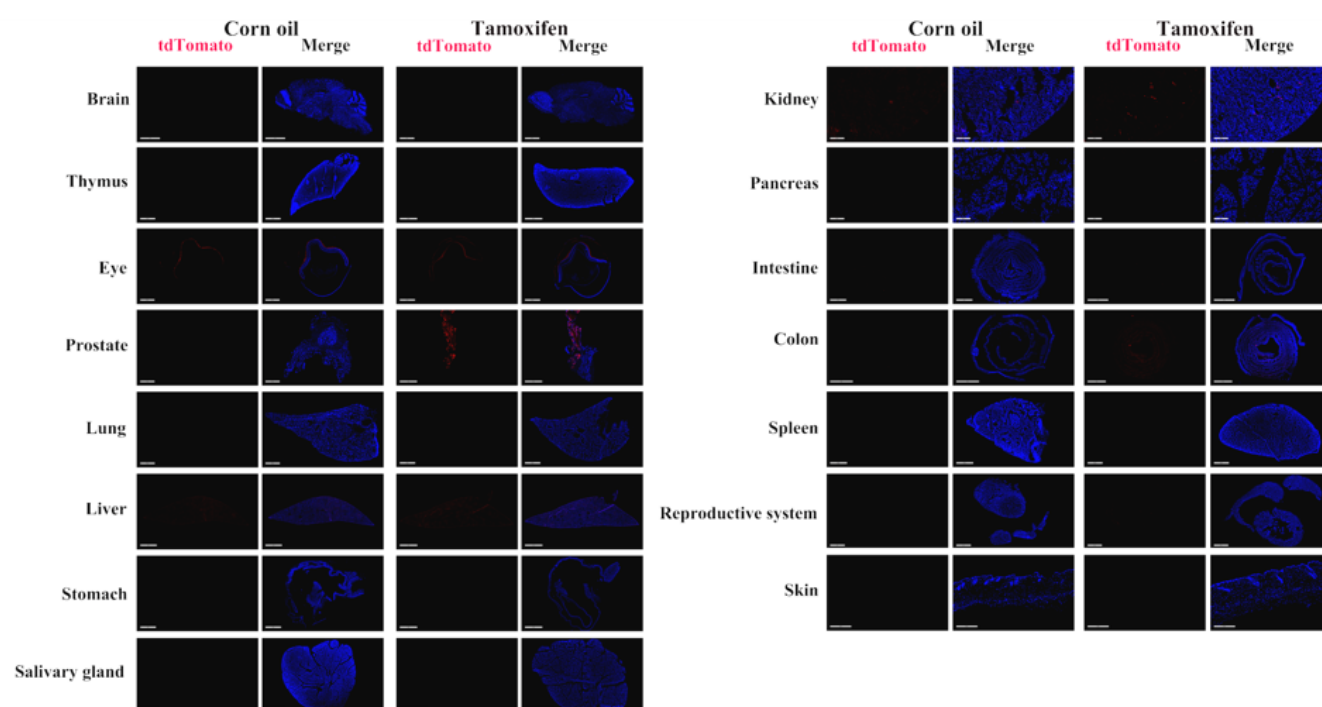


Fig. 2 Detection of tdTomato(red) in various tissues of  $Nkx3-1^{CreERT2/+}; Rosa26^{tdTomato/+}$  mice after tamoxifen treatment. Tdtomato was expressed in the prostate and individual cells of kidney. TdTomato can not be detected in the brain, thymus, retina, lung, liver, stomach, salivary gland, pancreas, colon, intestine, spleen, skin, testis and epididymis. (For more detailed information please contact our technical advisor.)

