Nkx3-1-IRES-CreERT2

Nomenclature	C57BL/6Smoc-*Nkx3-1*$^{em1(IRES-CreERT2)Smoc}$
Cat. NO.	NM-KI-200071
Strain State	Embryo cryopreservation

Gene Summary

Gene Symbol **Nkx3-1**	**Synonyms**	Bax; NKX3A; NKX3.1; Nkx-3.1; bagpipe
	NCBI ID	18095
	MGI ID	97352
	Ensembl ID	ENSMUSG00000022061
	Human Ortholog	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

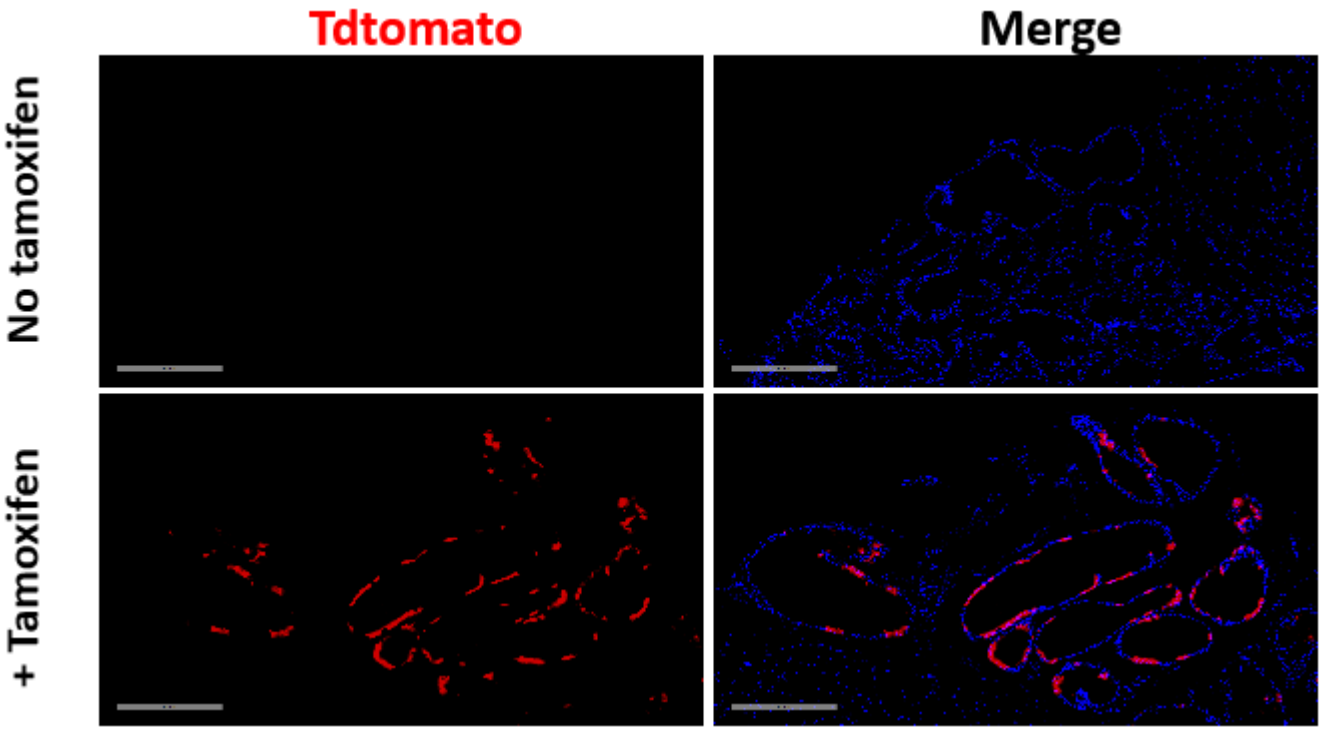

Fig. 1 CreERT2-mediated recombination in the prostate of Nkx3-1$^{CreERT2/+}$; Rosa26$^{tdTomato/+}$ mouse. TdTomato(red) expression can be detected in the prostate lumen cells of Nkx3-1$^{CreERT2/+}$; Rosa26$^{tdTomato/+}$ mouse after tamoxifen treatment.

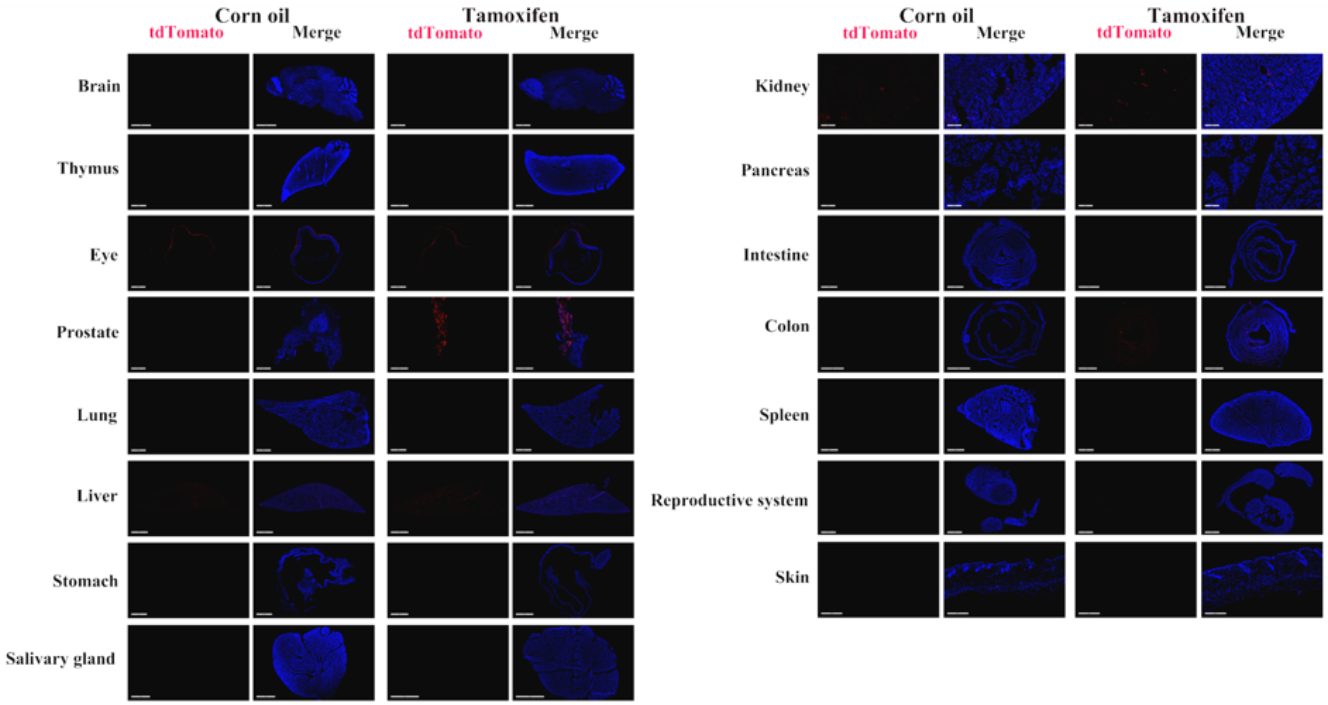

Fig. 2 Detection of tdTomato(red) in various tissues of Nkx3-1$^{CreERT2/+}$; Rosa26$^{tdTomato/+}$ mice after tamoxifen treatment. Tdtomato was expressed in the prostate and individual cells of kidney. TdTomato can not be detected in the brain, thymus, retina, lung, liver, stomach, salivary gland, pancreas,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