

# Foxn1-IRES-Cre

<b>Nomenclature</b>	C57BL/6Smoc- <i>Foxn1</i> <sup>em1(IRES-iCre)Smoc</sup>
<b>Cat. NO.</b>	NM-KI-200106
<b>Strain State</b>	Sperm cryopreservation

## Gene Summary

<b>Gene Symbol</b> Foxn1	<b>Synonyms</b>	nu; Whn; nude; Fkh19; Hfh11; HFH-11; D11Bhm185e
	<b>NCBI ID</b>	<a href="#">15218</a>
	<b>MGI ID</b>	<a href="#">102949</a>
	<b>Ensembl ID</b>	<a href="#">ENSMUSG00000002057</a>
	<b>Human Ortholog</b>	FOXN1

## Model Description

A IRES-iCre expression cassette was knocked into the Foxn1 gene stop codon site. The protein encoded by Foxn1 (forkhead box N1) gene is part of the forkhead family or transcription factors that are important in developmental processes, immune system regulation, metabolism, cancer and aging. When crossed with a strain carrying a gene flanked by sites, the flanked gene will be removed in thymic epithelial cell and keratinocytes.

**Research Application:** Cre recombinase tool; Thymus-related research

\*Literature published using this strain should indicate: Foxn1-IRES-Cre mice (Cat. NO. NM-KI-200106) were purchased from Shanghai Model Organisms Center, Inc..

## Validation Data

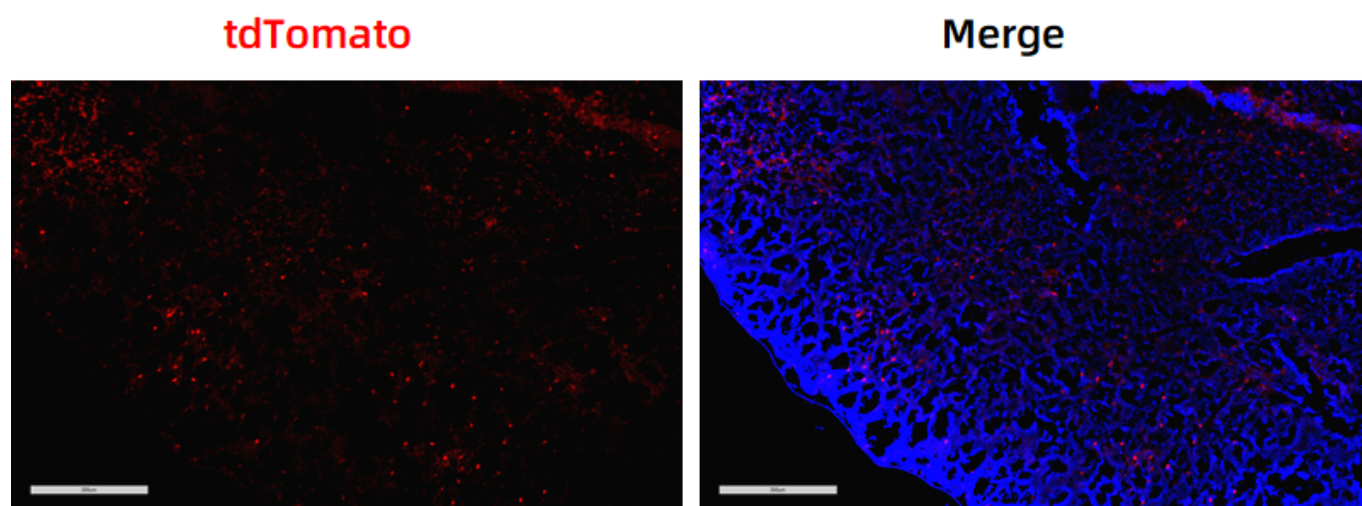


Fig. 1 Cre-mediated recombination in the thymus of  $Foxn1^{Cre/+}$ ;  $Rosa26^{tdTomato/+}$  mouse. TdTomato(red) expression can be detected in the thymus of  $Foxn1^{Cre/+}$ ;  $Rosa26^{tdTomato/+}$  mouse.

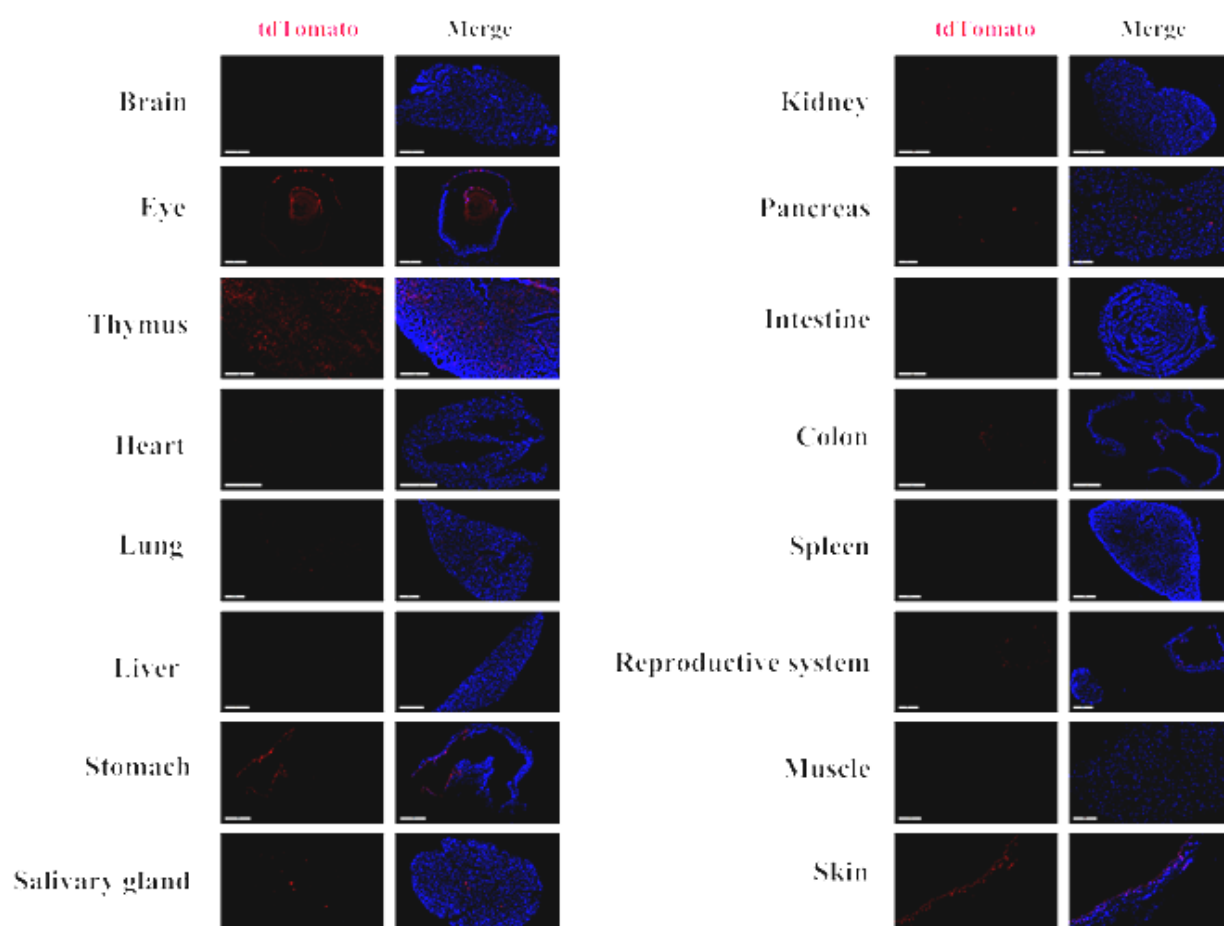


Fig. 2 Detection of tdTomato(red) in various tissues of  $Foxn1^{Cre/+}$ ;  $Rosa26^{tdTomato/+}$  mice. Cre-mediated recombination can be detected in some cells of the thymus, skin, stomach, uterus and in individual cells of the colon, eye, kidney, lung, pancreas. TdTomato can not be detected in the brain, muscle, heart, liver, ovary, intestine or spleen. (For more detailed information please contact our technical advisor.)

