

# Anxa10-2A-CreERT2

<b>Nomenclature</b>	C57BL/6Smoc- <i>Anxa10</i> <sup>em1(2A-CreERT2-Wpre-pA)Smoc</sup>
<b>Cat. NO.</b>	NM-KI-200312
<b>Strain State</b>	Repository Live

## Gene Summary

<b>Gene Symbol</b> <b>Anxa10</b>	<b>Synonyms</b>	
	<b>NCBI ID</b>	<a href="#">26359</a>
	<b>MGI ID</b>	<a href="#">1347090</a>
	<b>Ensembl ID</b>	<a href="#">ENSMUSG00000031635</a>
	<b>Human Ortholog</b>	ANXA10

## Model Description

2A-CreERT2-Wpre-pA expression cassette was knocked into the Anxa10 gene stop codon site.

**Research Application:** These mice express tamoxifen induced cre recombinase from the Anxa10 locus. By mating the reporter mice with CreERT2-expressing mice, reporter gene expression can be detected in gastric mucosa epithelial cells after tamoxifen treatment. And the mice are useful for generating conditional mutations in gastric mucosa epithelial cells. This strain may useful for in the research of gastric carcinoma.

\*Literature published using this strain should indicate: Anxa10-2A-CreERT2 mice (Cat. NO. NM-KI-200312) were purchased from Shanghai Model Organisms Center, Inc..

## Validation Data

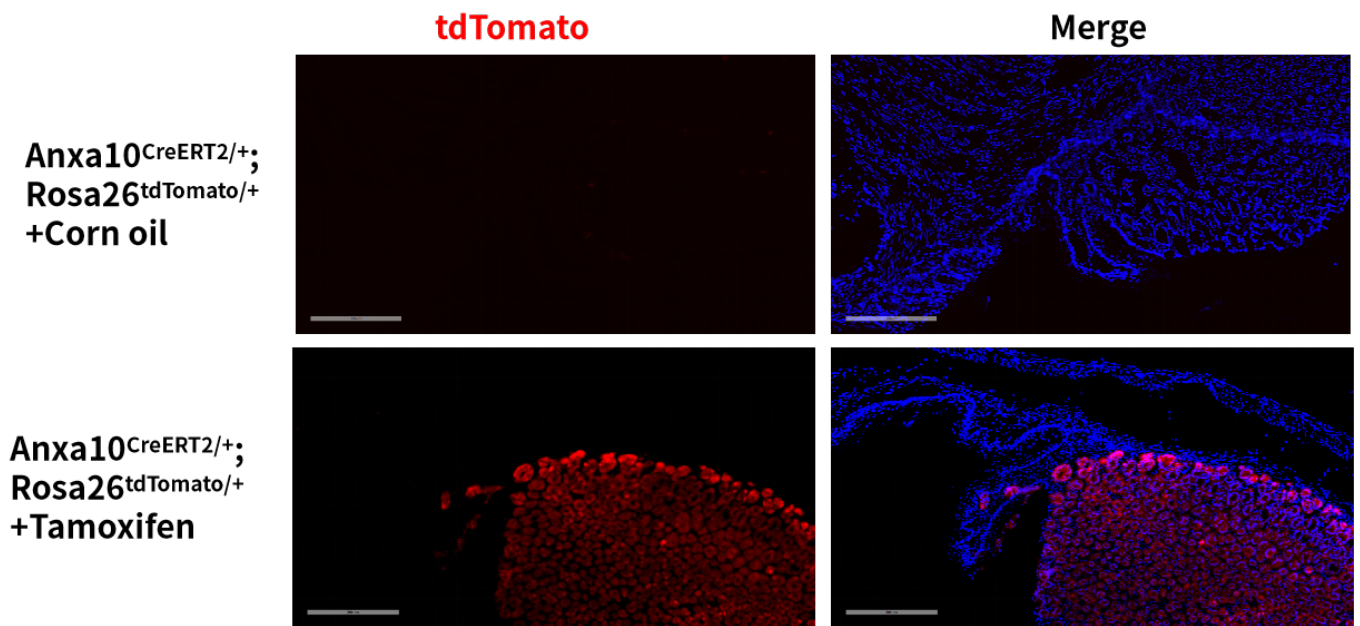


Fig.1 CreERT2-mediated recombination in the stomach of  $Anxa10^{CreERT2/+}; Rosa26^{tdTomato/+}$  mouse.

TdTomato(red) expression can be detected in the gastric mucosal epithelial cell of  $Anxa10^{CreERT2/+}; Rosa26^{tdTomato/+}$  mouse after tamoxifen treatment.

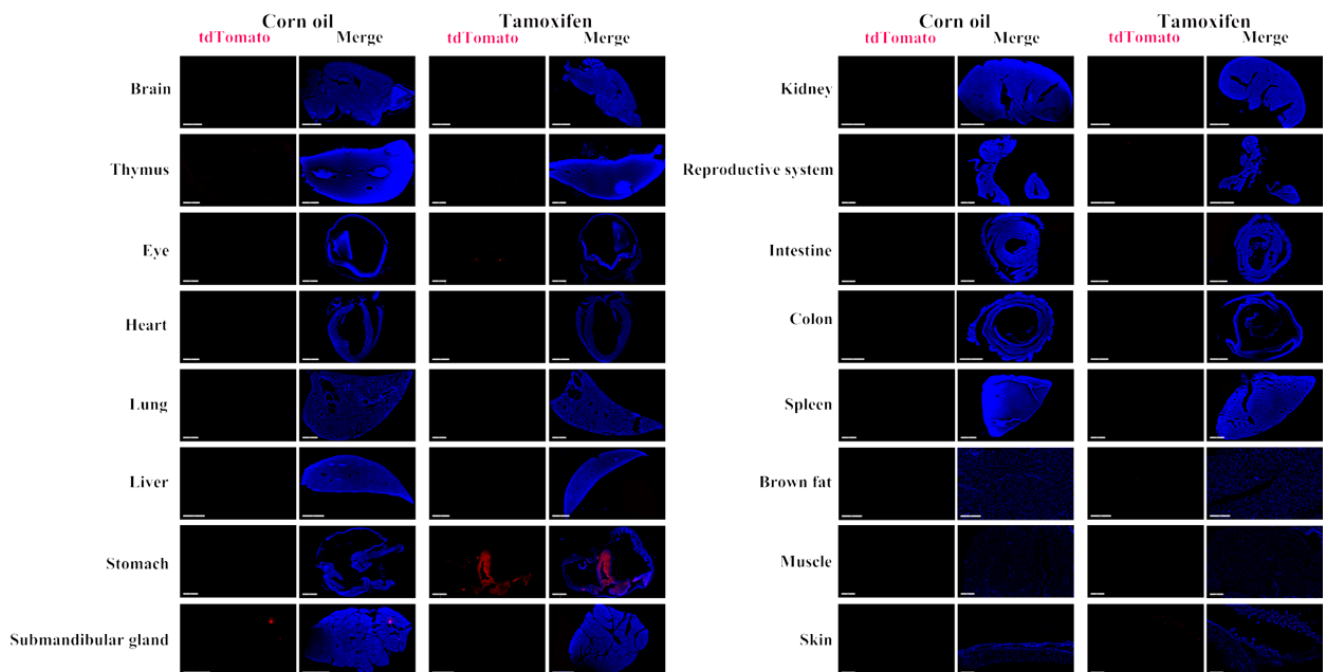


Fig.2 Detection of tdTomato (red) in various tissues of  $Anxa10^{CreERT2/+}; Rosa26^{tdTomato/+}$  mice after tamoxifen treatment.

CreERT2-mediated recombination in the gastric mucosal cells and hair follicle cells can be induced by tamoxifen. A small degree of leakiness were detected in the thymus prior to tamoxifen exposure. Besides, tdtomato expression can not be detected in the brain, eyes, heart, lung, liver, submandibular gland, kidney, ovary, uterus, intestine, colon, spleen, brown fat, and

muscle. (For more detailed information please contact our technical advisor.)

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