Anxa10-2A-CreERT2

Nomenclature	C57BL/6Smoc-*Anxa10*$^{em1(2A\text{-}CreERT2\text{-}Wpre\text{-}pA)Smoc}$
Cat. NO.	NM-KI-200312
Strain State	Repository Live

Gene Summary

Gene Symbol Anxa10	**Synonyms**	
	NCBI ID	26359
	MGI ID	1347090
	Ensembl ID	ENSMUSG00000031635
	Human Ortholog	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

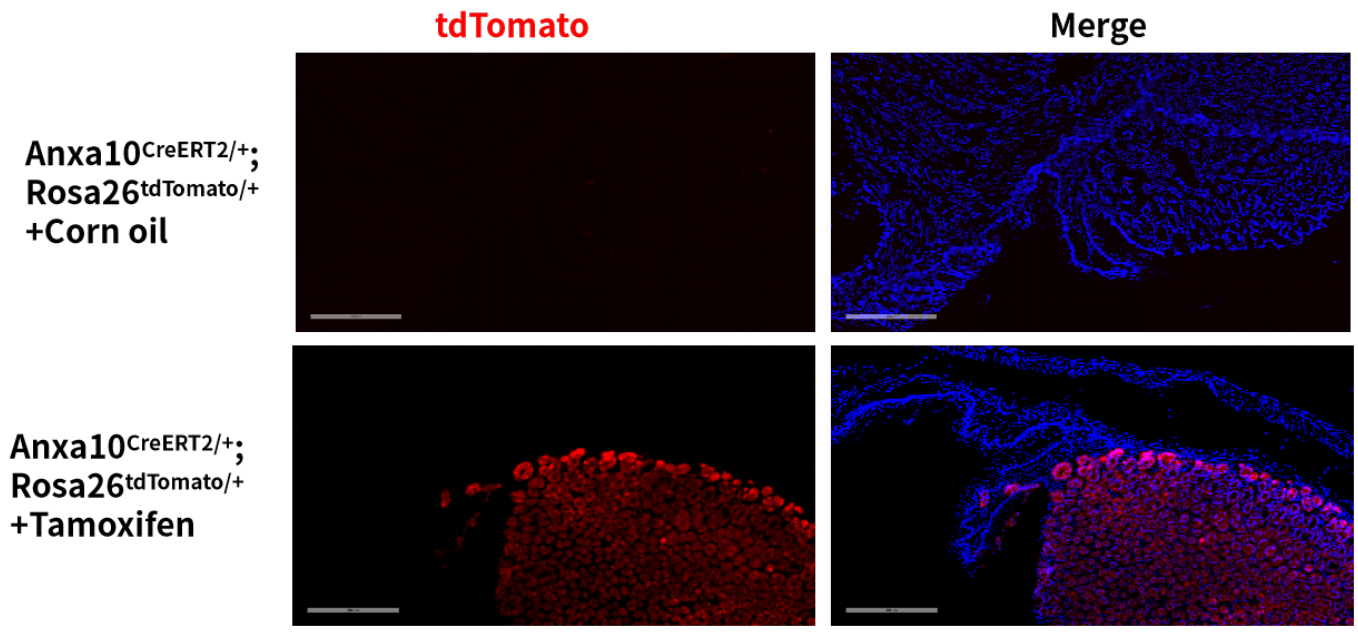

Fig.1 CreERT2-mediated recombination in the stomach of Anxa10$^{CreERT2/+}$; Rosa26$^{tdTomato/+}$ mouse.

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

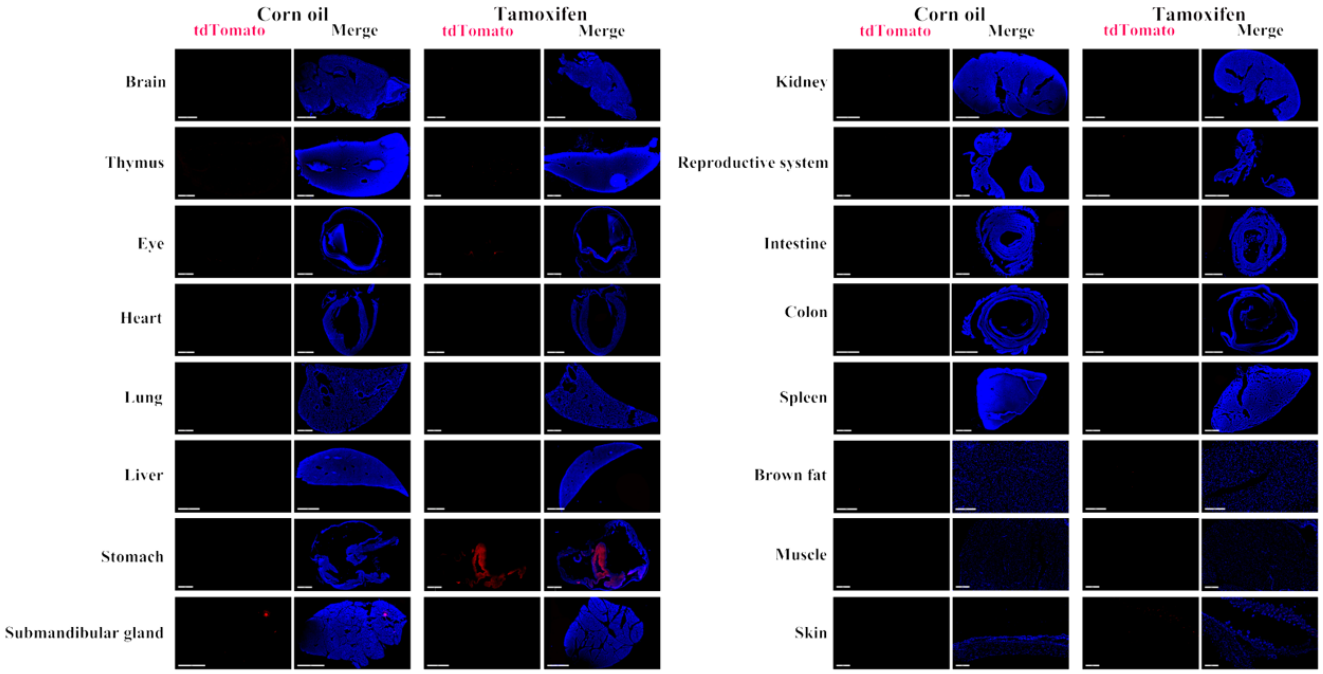

Fig.2 Detection of tdTomato (red) in various tissues of Anxa10$^{CreERT2/+}$; Rosa26$^{tdTomato/+}$ mice after tamoxifen treatment.

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.)