

Atp4b-IRES-CreERT2(2)

Nomenclature	C57BL/6Smoc- <i>Atp4b</i> ^{em2(IRES-CreERT2)Smoc}
Cat. NO.	NM-KI-210119
Strain State	Sperm cryopreservation

Gene Summary

Gene Symbol Atp4b	Synonyms	AV080843
	NCBI ID	11945
	MGI ID	88114
	Ensembl ID	ENSMUSG00000031449
	Human Ortholog	ATP4B

Model Description

An IRES-CreERT2 expression cassette was knocked into the Atp4b gene stop codon site. Besides, An IRES-CreERT2-WPRE-pA expression cassette were knock into the Atp4b gene start codon site to generate Atp4b-IRES-CreERT2(Stock No. NM-KI-210118) mice. ATP4B could serve as a tumor suppressor in the tumorigenesis and progression. This strain is useful in studying the function of gastric parietal cells in gastric epithelial homeostasis. When crossed with a strain carrying a gene flanked by loxP sites, the flanked gene will be removed in cre-expressing cells after tamoxifen treatment.

Research Application: Cre tool mice; stomach

*Literature published using this strain should indicate: Atp4b-IRES-CreERT2(2) mice (Cat. NO. NM-KI-210119) were purchased from Shanghai Model Organisms Center, Inc..

Validation Data

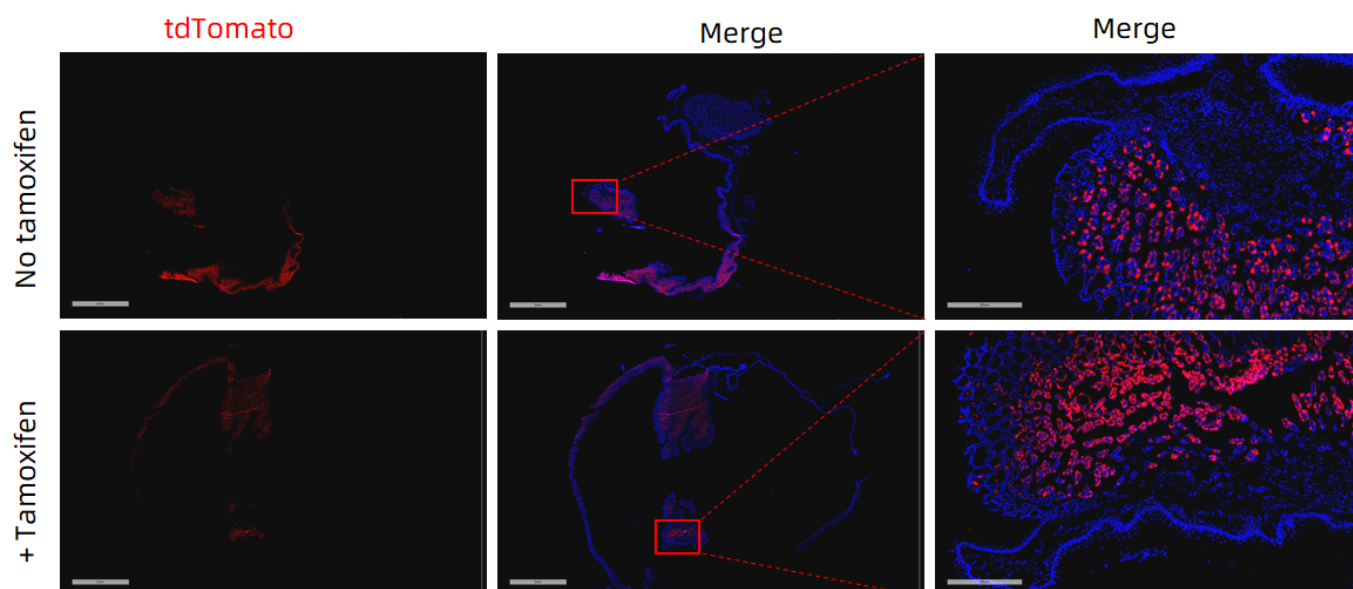


Fig. 1 CreERT2-mediated recombination in the stomach of $Atp4b^{CreERT2/+}; Rosa26^{tdTomato/+}$ mouse. TdTomato(red) expression can be detected in the stomach of $Atp4b^{CreERT2/+}; Rosa26^{tdTomato/+}$ mouse after tamoxifen treatment. Some leakiness were detected prior to tamoxifen exposure.

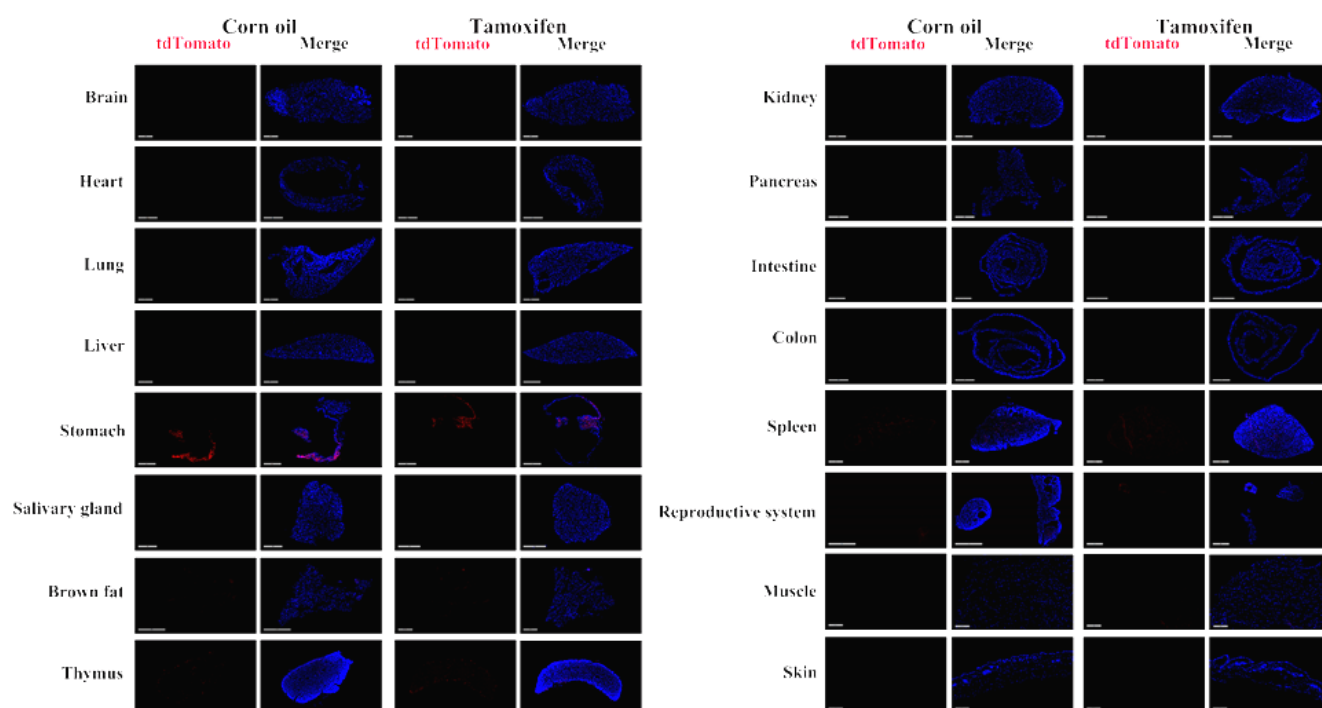


Fig. 2 Detection of tdTomato(red) in various tissues of $Atp4b^{CreERT2/+}; Rosa26^{tdTomato/+}$ mice after tamoxifen treatment. TdTomato was expressed in the glandular stomach and individual cells of thymus. Some leakiness were detected prior to tamoxifen exposure. TdTomato can not be detected in the brain, heart, lung, salivary gland, brown fat, kidney, pancreas, colon, intestine, spleen, ovary, muscle and skin. (For more detailed information please contact our technical advisor.)

