Chga-CreERT2

Nomenclature	C57BL/6Smoc-*Chga*$^{em(CreERT2-Wpre-pA)Smoc}$
Cat. NO.	NM-KI-204993
Strain State	Repository Live

Gene Summary

Gene Symbol **Chga**	**Synonyms**	cgA， ChrA
	NCBI ID	12652
	MGI ID	88394
	Ensembl ID	ENSMUSG00000021194
	Human Ortholog	CHGA

Model Description

CreERT2-Wpre-pA expression cassette was knocked into the Chga gene.
Research Application: By mating the reporter mice with CreERT2-expressing mice, Chga positive cells derived from double-positive mice were permanently labeled by fluorescent protein after tamoxifen treatment. These mice may be useful in the research of hypertension, heart disease and enteritidis.
*Literature published using this strain should indicate: Chga-CreERT2 mice (Cat. NO. NM-KI-204993) were purchased from Shanghai Model Organisms Center, Inc..

Validation Data

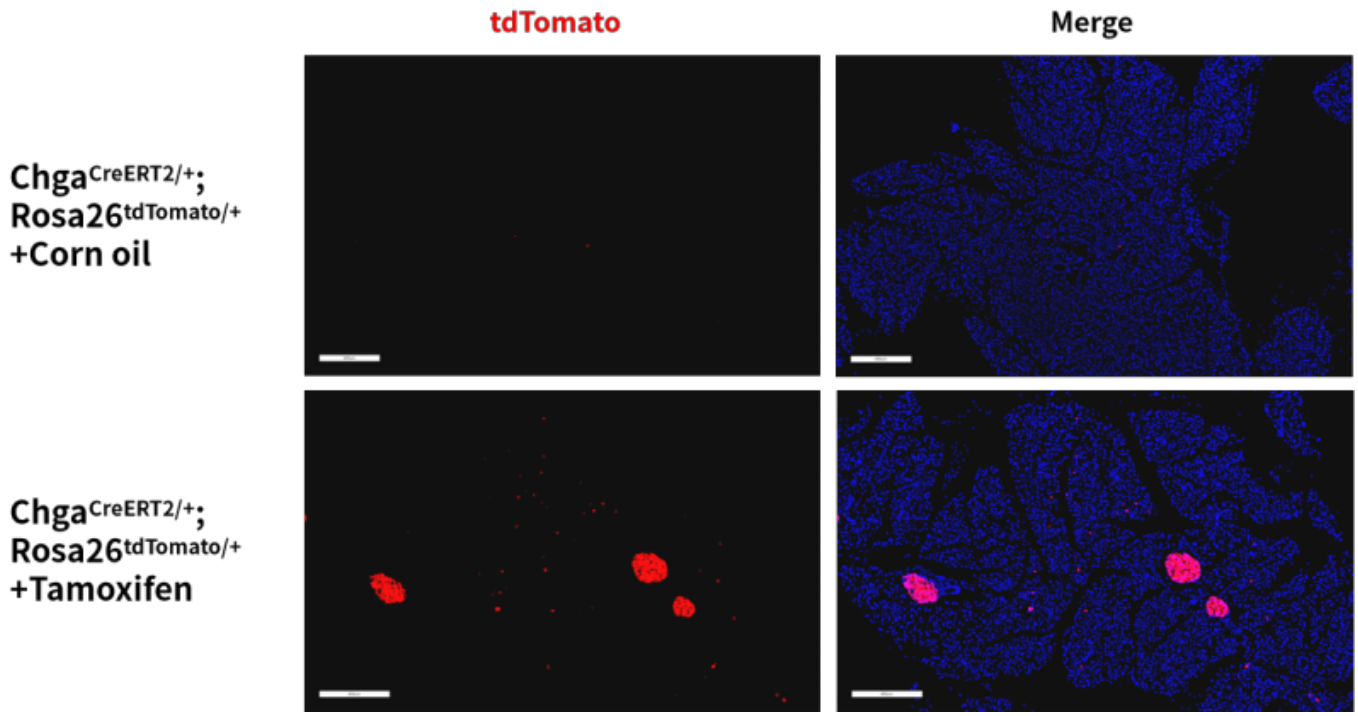

Fig. 1 Detection of tdTomato (red) in the pancreas of Chga$^{CreERT2/+}$; Rosa26$^{tdTomato/+}$ mice after tamoxifen treatment.

CreERT2-mediated recombination in the pancreas islet and some acinar cells can be induced by tamoxifen.

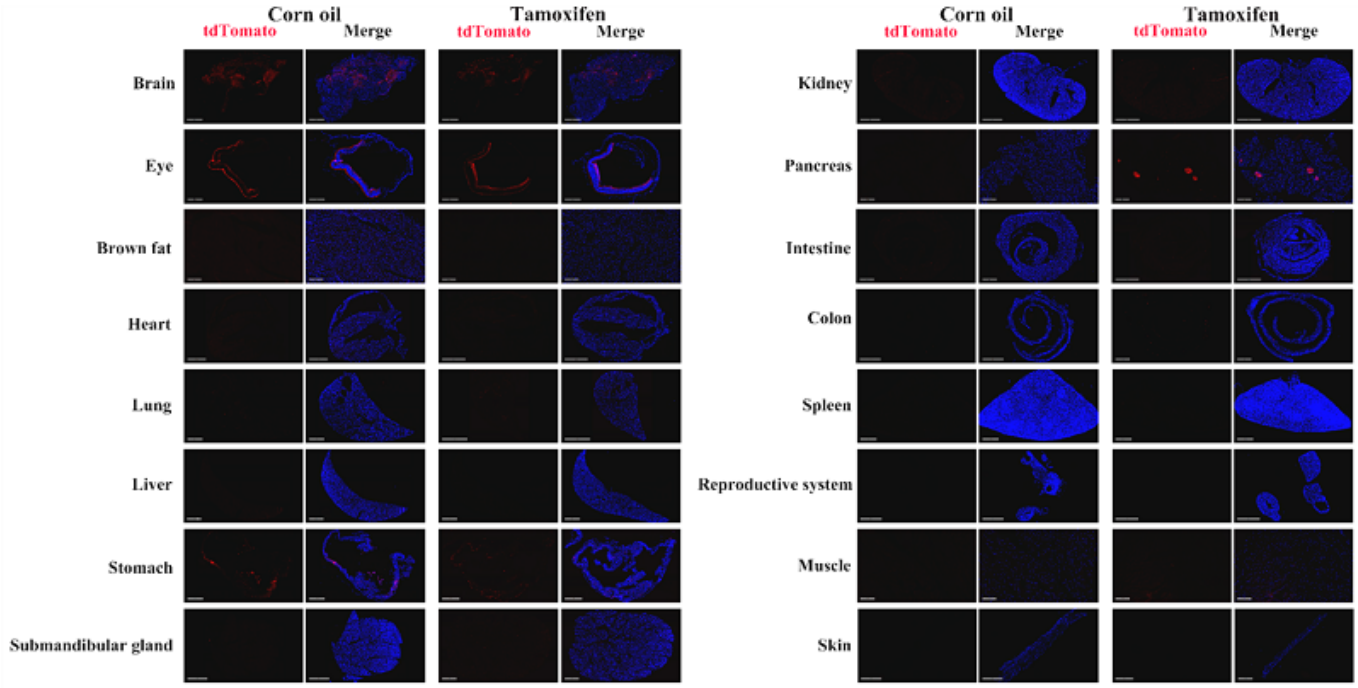

Fig. 2 Detection of tdTomato (red) in various tissues of Chga$^{CreERT2/+}$; Rosa26$^{tdTomato/+}$ mice after tamoxifen treatment.

CreERT2-mediated recombination in some cells of the pancreas, lung, kidney and submandibular gland can be induced by tamoxifen. Some leakiness were detected in the brain, stomach, colon and intestine prior to tamoxifen exposure. Besides, tdtomato expression can not be detected in

the liver, brown fat, spleen, muscle, skin, testis and epididymis. (For more detailed information please contact our technical advisor.)