

# Chga-CreERT2

<b>Nomenclature</b>	C57BL/6Smoc- <i>Chga</i> <sup>em(CreERT2-Wpre-pA)Smoc</sup>
<b>Cat. NO.</b>	NM-KI-204993
<b>Strain State</b>	Sperm cryopreservation

## Gene Summary

<b>Gene Symbol</b> Chga	<b>Synonyms</b>	cgA; ChrA
	<b>NCBI ID</b>	<a href="#">12652</a>
	<b>MGI ID</b>	<a href="#">88394</a>
	<b>Ensembl ID</b>	<a href="#">ENSMUSG00000021194</a>
	<b>Human Ortholog</b>	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

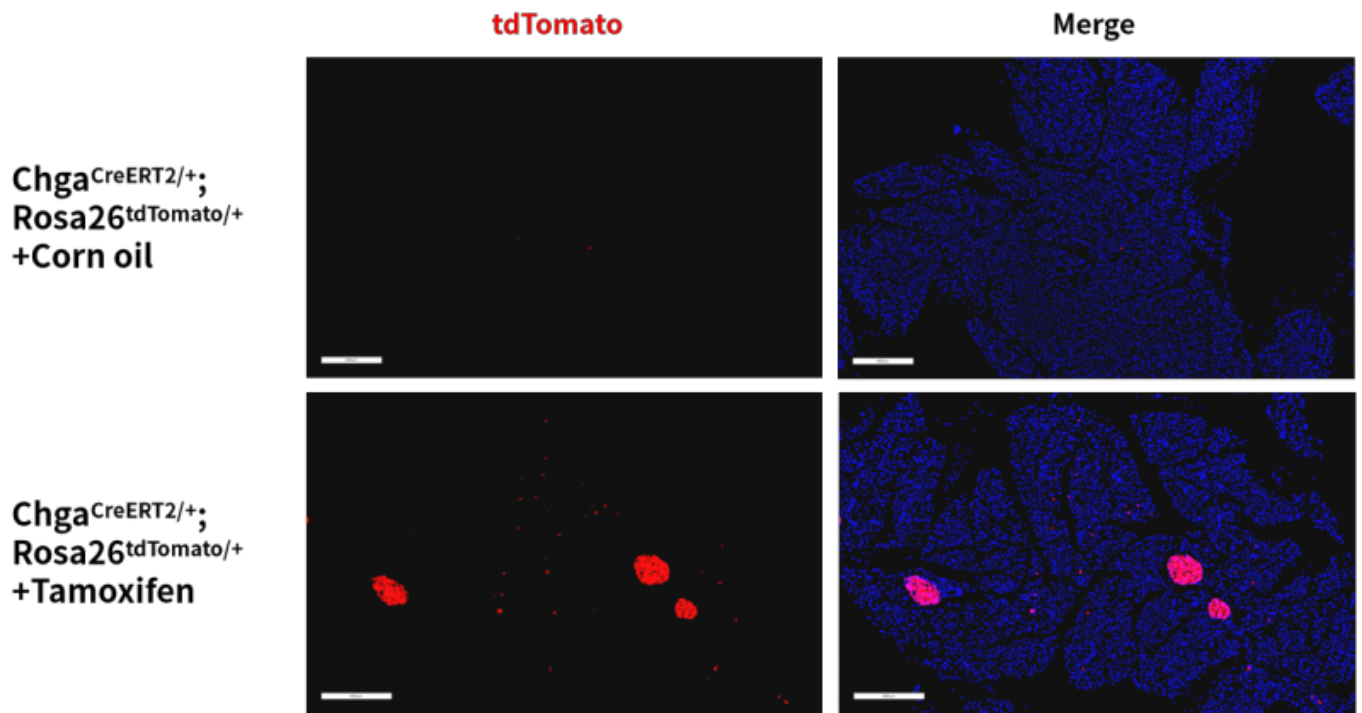


Fig. 1 Detection of tdTomato (red) in the pancreas of  $Chga^{CreERT2/+}; Rosa26^{tdTomato/+}$  mice after tamoxifen treatment.

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

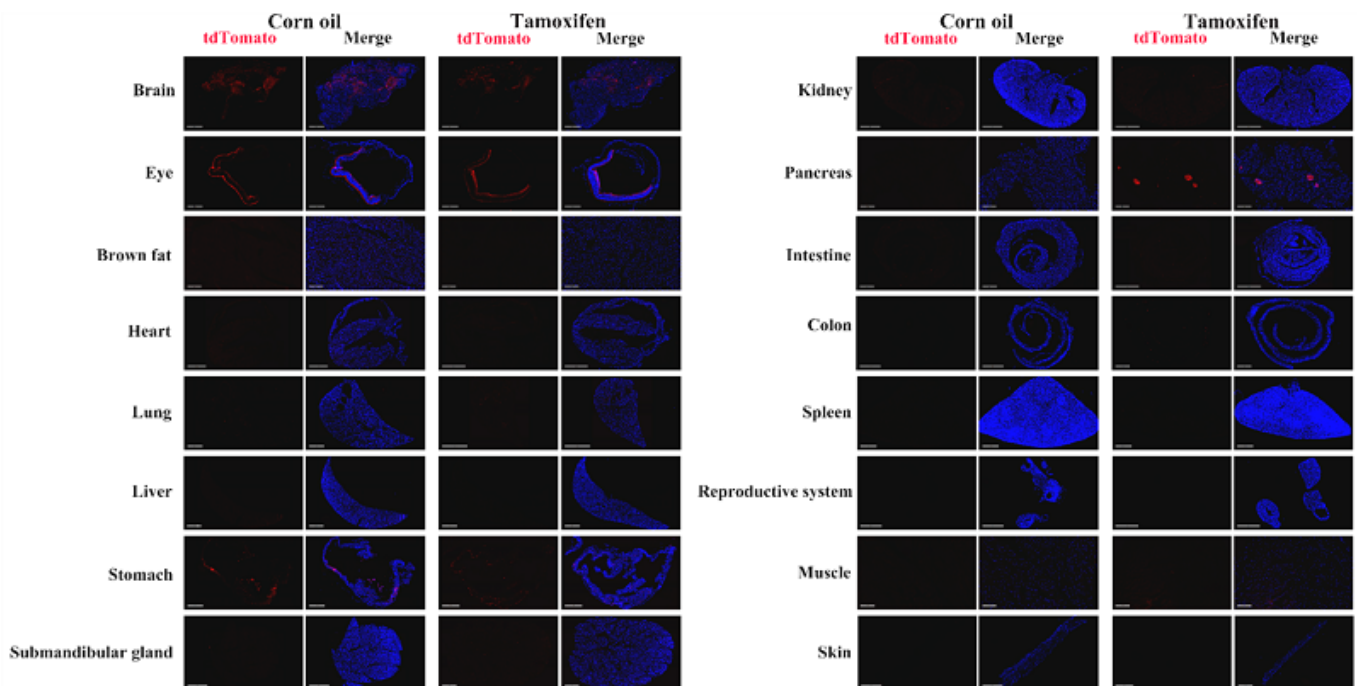


Fig. 2 Detection of tdTomato (red) in various tissues of  $Chga^{CreERT2/+}; Rosa26^{tdTomato/+}$  mice after tamoxifen treatment.

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.)

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