

Slc6a11-CreERT2

系統名	C57BL/6Smoc- <i>Slc6a11</i> ^{em1(CreERT2-polyA(SV40))Smoc}
SMOC番号	NM-KI-200130
維持形態	Repository Live

遺伝子の概要

Gene Symbol Slc6a11	Synonyms	GAT4; Gat3; Gabt4; D930045G19Rik; E130202I16Rik
	NCBI ID	243616
	MGI ID	95630
	Ensembl ID	ENSMUSG00000030307
	Human Ortholog	SLC6A11

説明

A CreERT2-polyA expression cassette was knocked into the Slc6a11 gene start codon site. Slc6a11 encodes GAT3 (Gabt4), a sodium-dependent transporter that uptakes the inhibitory neurotransmitter gamma-aminobutyric acid (GABA), which ends the GABA neurotransmission. When Slc6a11-CreERT2 mice are bred with mice containing loxP-flanked sequence, tamoxifen-inducible, Cre-mediated recombination will result in deletion of the floxed sequences in SLC6A11 positive cells. Defects in Slc6a11 may result in epilepsy or behavioral and intellectual defects.

応用分野: Cre recombinase tool; Neuroscience

*Literature published using this strain should indicate: Slc6a11-CreERT2 mice (Cat. NO. NM-KI-200130) were purchased from Shanghai Model Organisms Center, Inc..

表現型データ

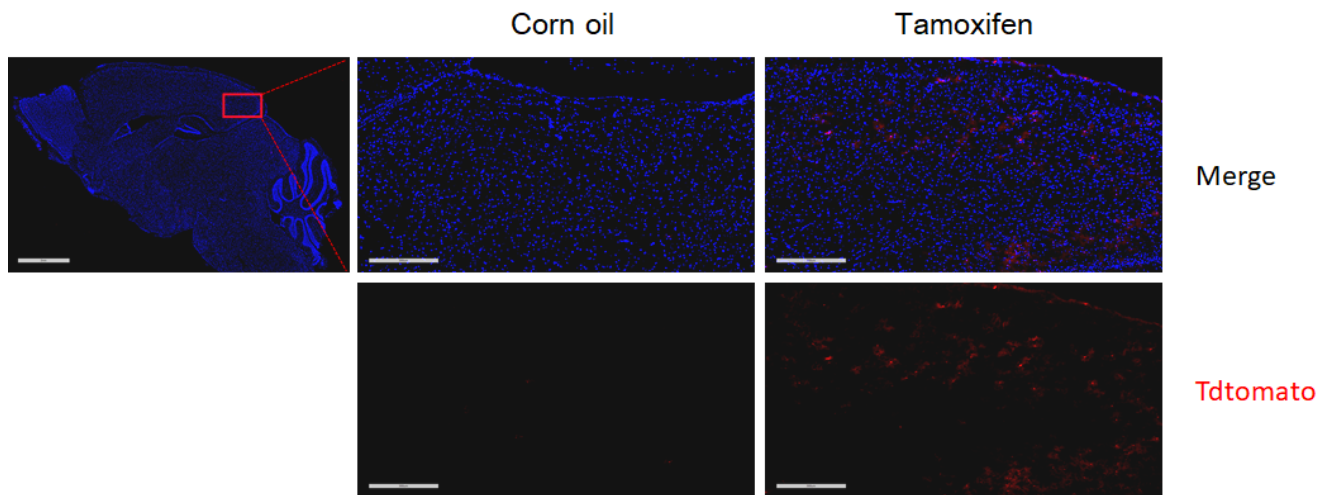


Fig.1 CreERT2-mediated recombination in the cerebral cortex of Slc6a11-CreERT2; Rosa26-tdTomato mice after tamoxifen treatment.

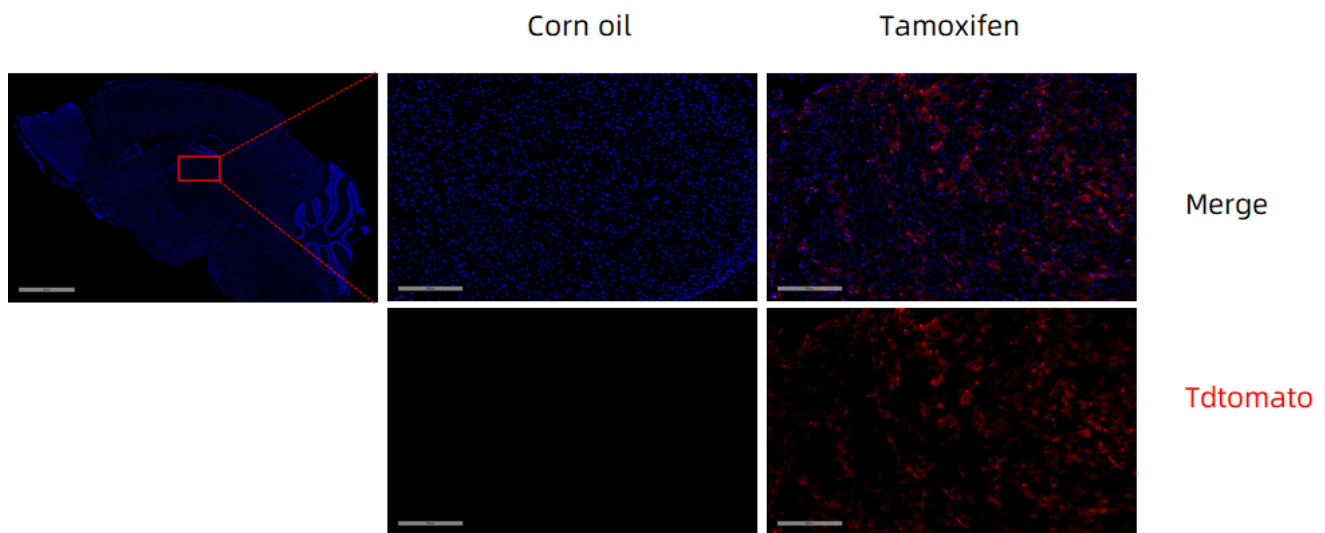


Fig. 2 CreERT2-mediated recombination in the cerebral ganglion of Slc6a11-CreER; Rosa26-tdTomato mice after tamoxifen treatment.

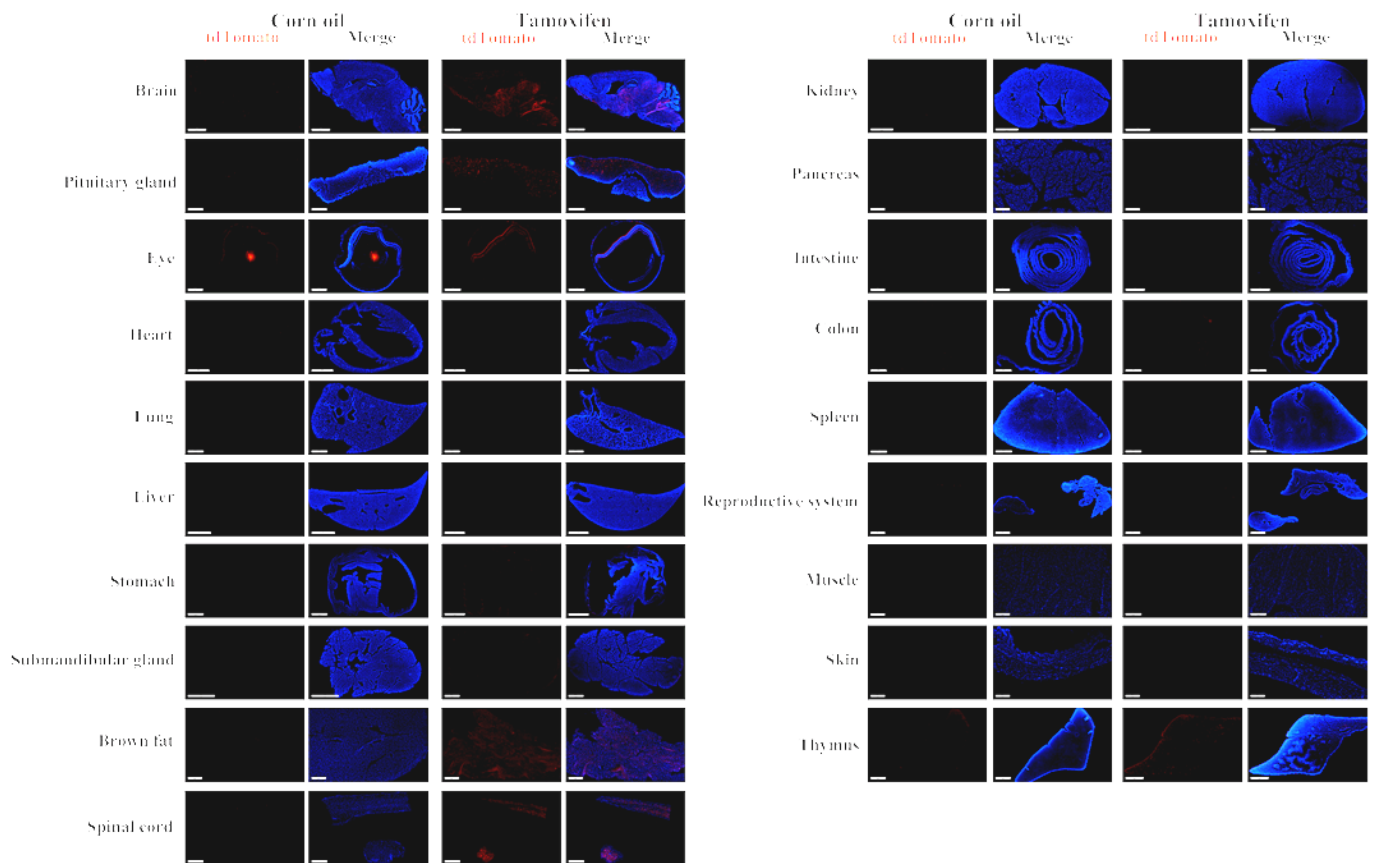


Fig3 Labeling was also observed in pituitary, retina, individual cells of submaxillary gland, large intestine and brown fat, but not in lung, liver, stomach, kidney, pancreas, small intestine, epidermis, cardiac muscle, testis, skeletal muscle, and heart valves (For more information please contact: 400-728-0660.)