

Zbtb46-2A-CreERT2

Nomenclature	C57BL/6Smoc- <i>Zbtb46</i> ^{em1(2A-CreERT2-WPRE-pA)Smoc}
Cat. NO.	NM-KI-18021
Strain State	Embryo cryopreservation

Gene Summary

Gene Symbol Zbtb46	Synonyms	BZEL; Btbd4; 2610019F01Rik; 4933406L05Rik
	NCBI ID	72147
	MGI ID	1919397
	Ensembl ID	ENSMUSG00000027583
	Human Ortholog	ZBTB46

Model Description

A 2A-CreERT2-WPRE-pA coexpression cassette is inserted before the stop codon of mouse *Zbtb46* gene via homologous recombination to establish a tamoxifen inducible *Zbtb46*-CreERT2 tool strain. This strain can be used to knockout target gene in *Zbtb46*⁺ cells after tamoxifen treatment when crossed with mice which carry loxp sites flanking target gene.

Research Application: Cre recombinase tool

*Literature published using this strain should indicate: *Zbtb46*-2A-CreERT2 mice (Cat. NO. NM-KI-18021) were purchased from Shanghai Model Organisms Center, Inc..

Validation Data

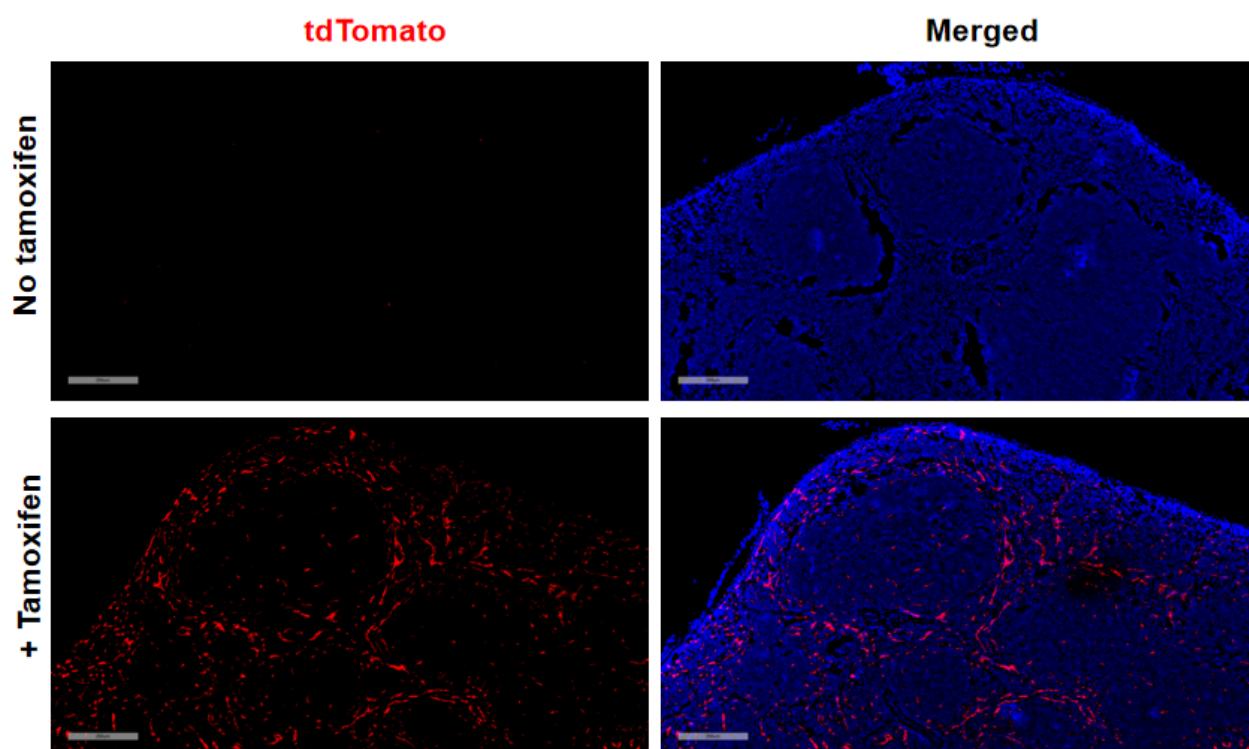


Fig 1. Cre-mediated recombination in spleen of $Zbtb46^{CreERT2/+}; Rosa26^{tdTomato/+}$ mice.

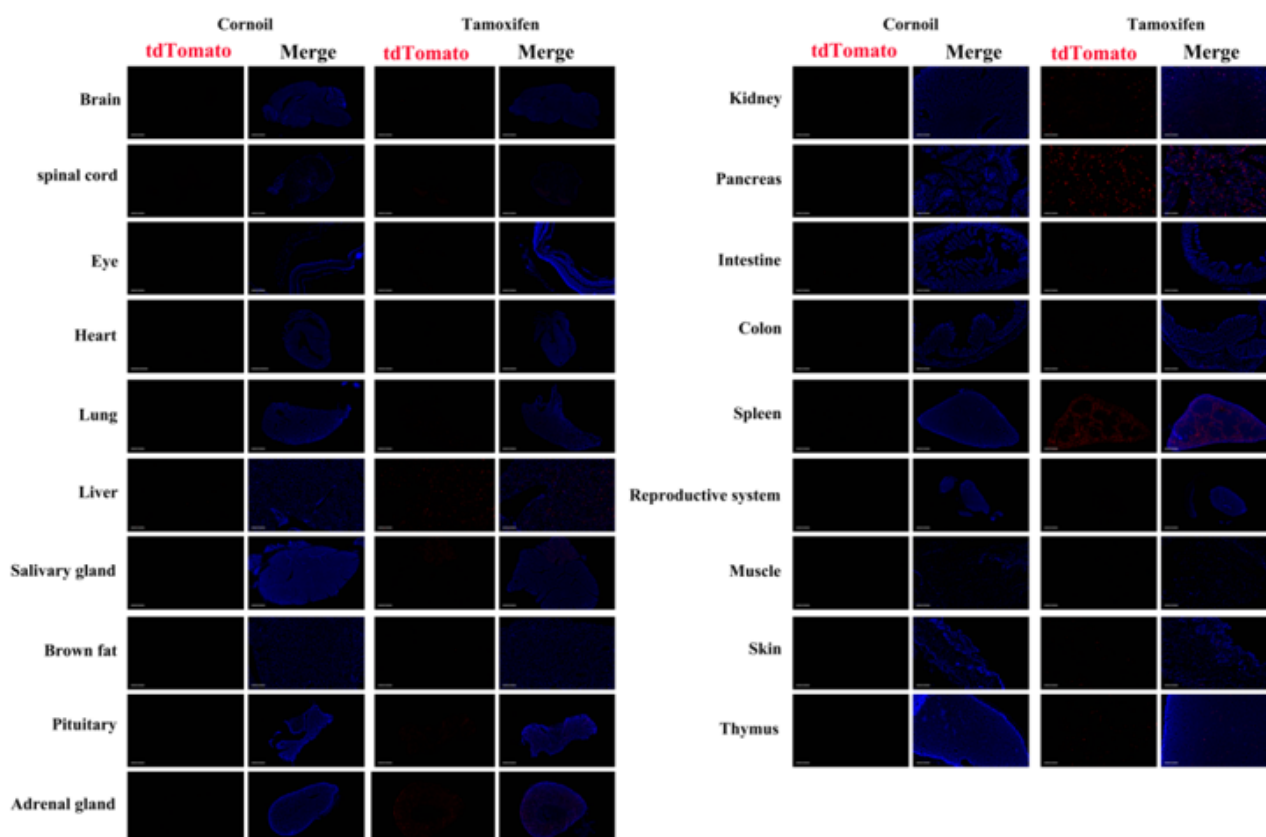


Fig 2. Detection of tdTomato (red) in various tissues of $Zbtb46^{CreERT2/+}; Rosa26^{tdTomato/+}$. Expression tissues include: liver, salivary gland, pituitary gland, adrenal gland, kidney, pancreas, spleen, testis, thymus. A few cells expressed in cerebellum, spinal cord, heart, brown fat, small intestine,

colon, muscle, skin. (6.5-8 weeks old, male) (For more detailed information please contact our technical advisor.)
