

Sox9-IRES-CreERT2

系統名	C57BL/6Smoc- <i>Sox9</i> ^{em(IRES-CreERT2-SV40pA)Smoc}
SMOC番号	NM-KI-204996
維持形態	Repository Live

遺伝子の概要

Gene Symbol Sox9	Synonyms	AV220920; mKIAA4243; 2010306G03Rik
	NCBI ID	20682
	MGI ID	98371
	Ensembl ID	ENSMUSG00000000567
	Human Ortholog	SOX9

説明

IRES-CreERT2-SV40pA expression cassette was knocked into the Sox9 gene .

応用分野: These mice may be used to generate tamoxifen-induced conditional mutations for studying gain-or-loss of function and/or fate mapping related to Sox9 expression during stem cell differentiation.

*Literature published using this strain should indicate: Sox9-IRES-CreERT2 mice (Cat. NO. NM-KI-204996) were purchased from Shanghai Model Organisms Center, Inc..

表現型データ

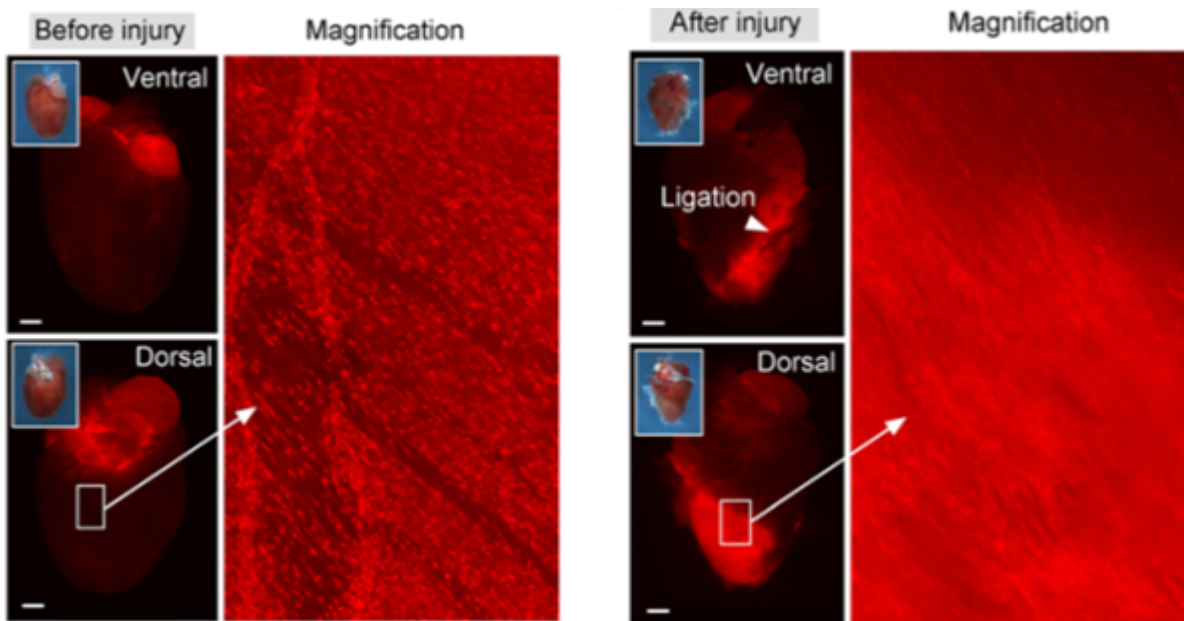


Fig. 1 CreERT2-mediated recombination in the heart of Sox9^{CreERT2/+}; R26^{tdtomato/+} mouse. TdTomato can be detected in the heart of Sox9^{CreERT2/+}; R26^{tdtomato/+} mouse. (Documented in the following reference.)

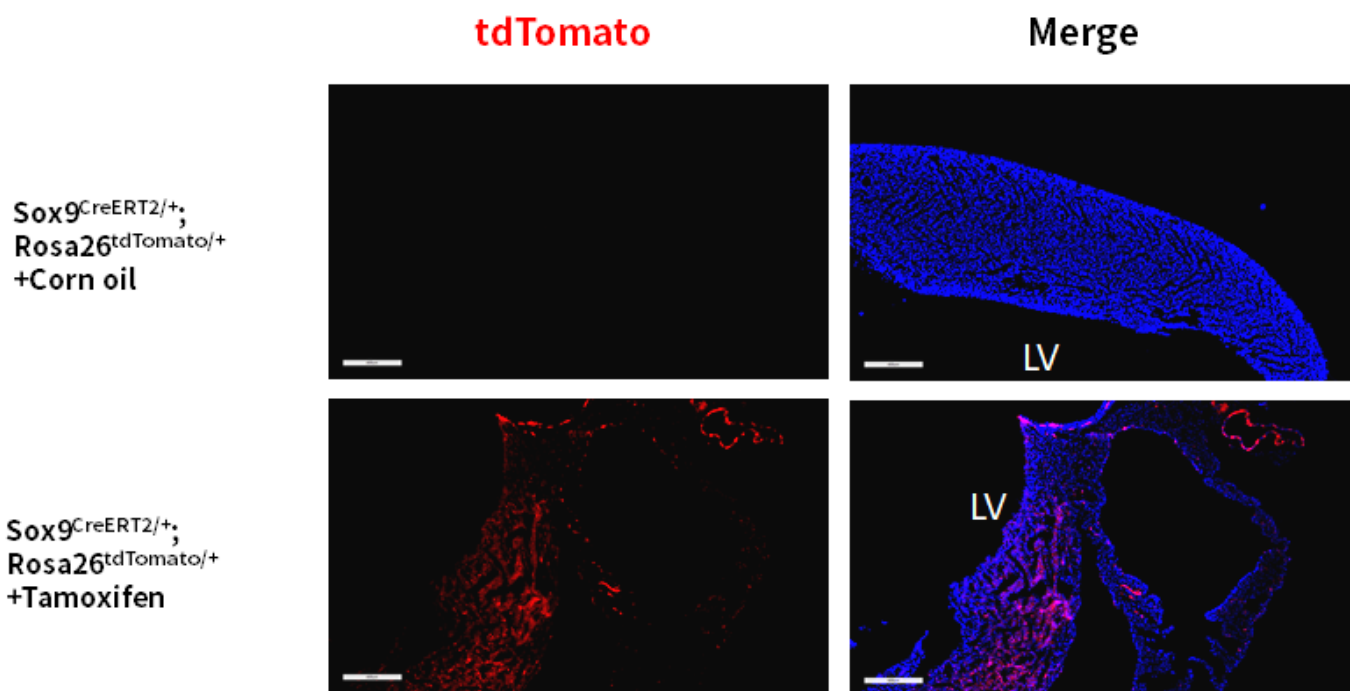


Fig. 2 CreERT2-mediated recombination in the heart of Sox9^{CreERT2/+}; Rosa26^{tdTomato/+} mouse. TdTomato(red) expression can be detected in some cells of ventricle and atria derived from Sox9^{CreERT2/+}; Rosa26^{tdTomato/+} mouse after tamoxifen treatment.

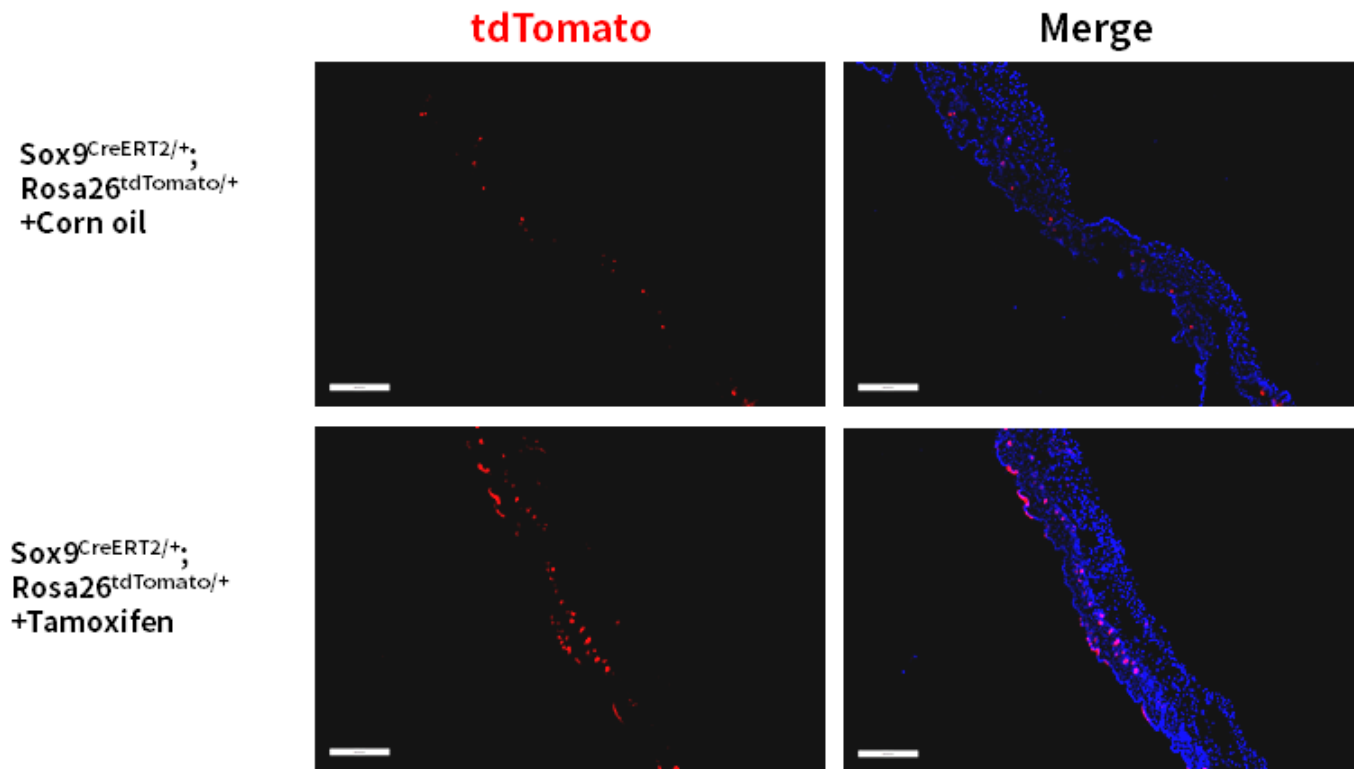


Fig. 3 CreERT2-mediated recombination in the hair follicles of Sox9^{CreERT2/+}; Rosa26^{tdTomato/+} mouse. TdTomato(red) expression can be detected in the hair follicles and epidermis derived from Sox9^{CreERT2/+}; Rosa26^{tdTomato/+} mouse.

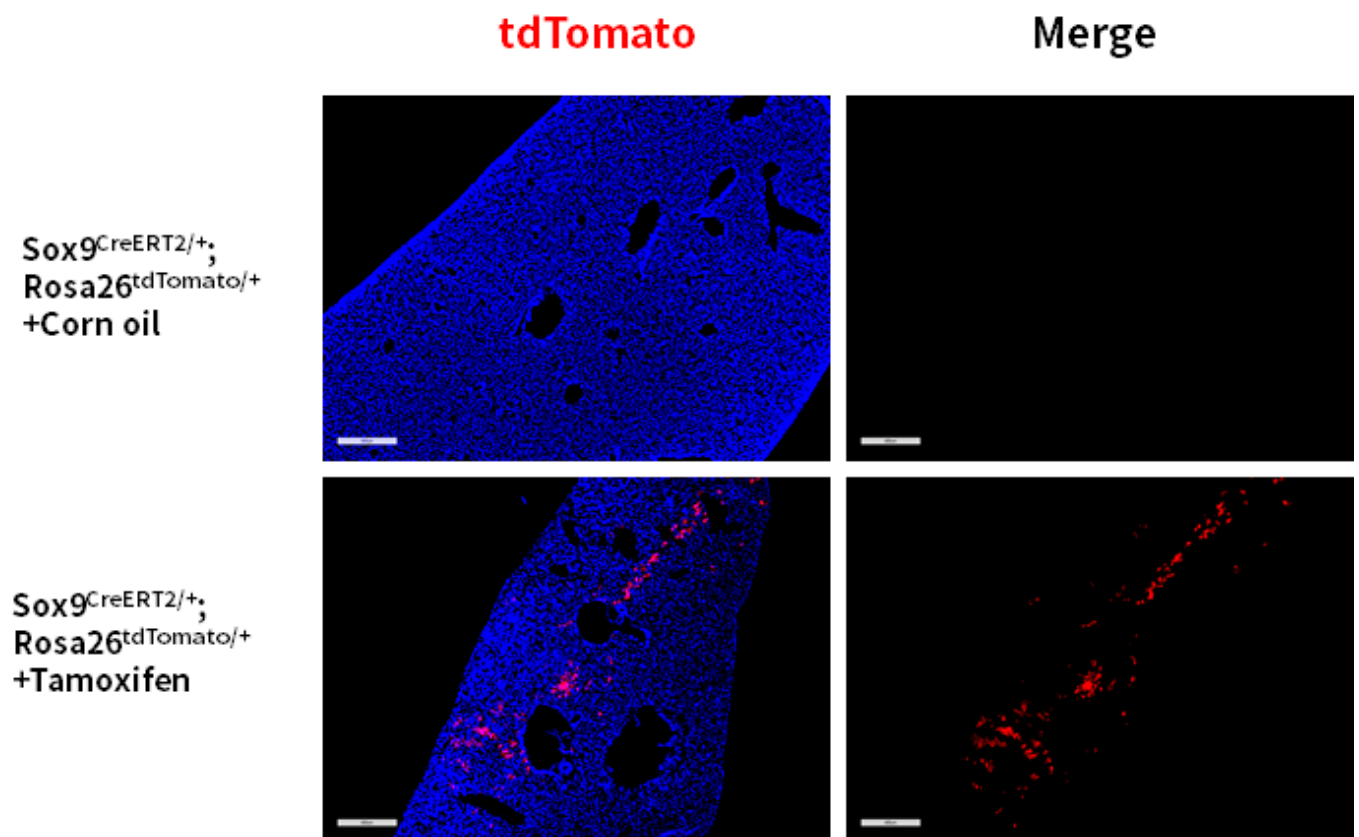


Fig. 4 CreERT2-mediated recombination in the liver of Sox9^{CreERT2/+}; Rosa26^{tdTomato/+} mouse. TdTomato(red) expression can be detected in the liver of Sox9^{CreERT2/+}; Rosa26^{tdTomato/+} mouse.

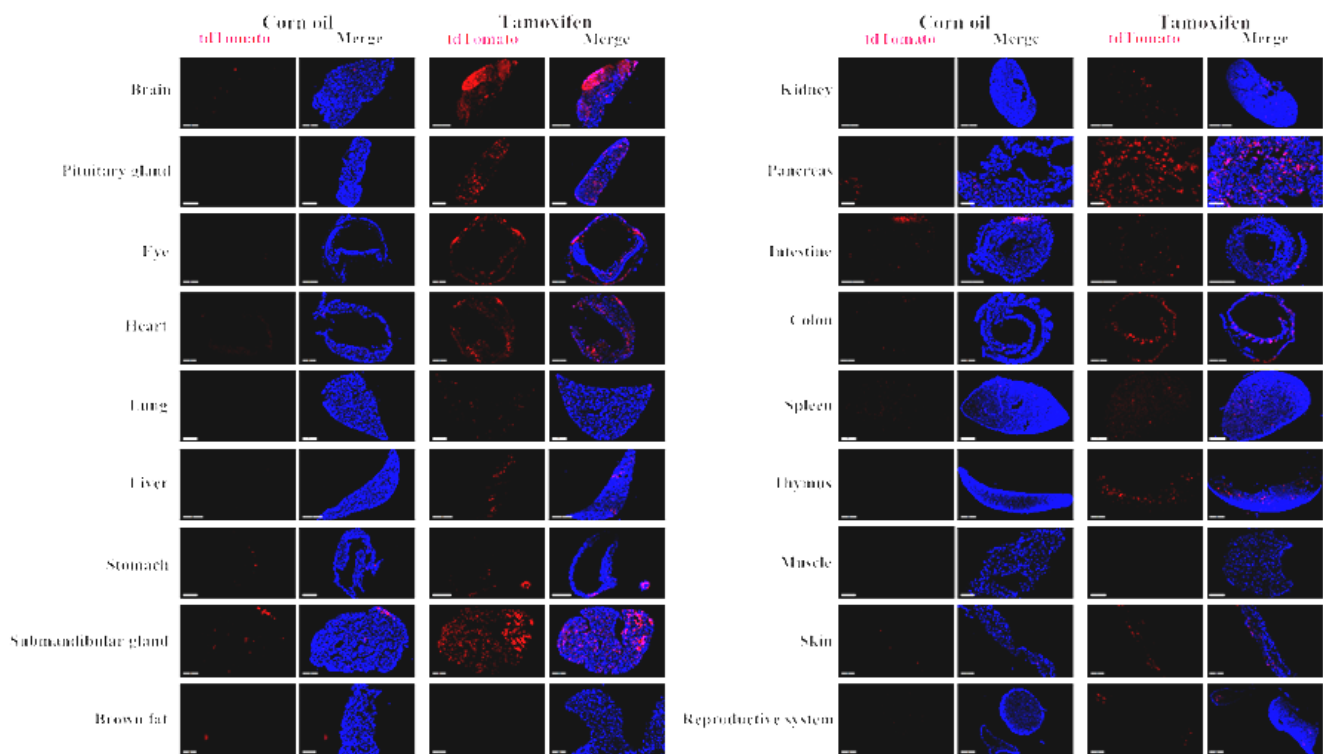


Fig. 5 Detection of tdTomato(red) in various tissues of Sox9^{CreERT2/+}; Rosa26^{tdTomato/+} mice. CreERT2 mediated recombination can be detected in the heart, hair follicles and epidermis. Tdtomato expression can be also detected in individual cells derived from liver, brain, pituitary gland, retina, stomach, large intestine, small intestine, lung, submandibular gland, kidney, pancreas, spleen, thymus and ovary, except for brown fat tissue and muscle. (For more detailed information please contact our technical advisor.)

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References: J Clin Invest