

Acan-IRES-CreERT2

系統名 C57BL/6Smoc-Acan em1(IRES-CreERT2)Smoc

SMOC番号 NM-KI-200143

維持形態 Repository Live

遺伝子の概要

Gene Symbol Acan	Synonyms	Agc; cmd; Agc1; Cspg1; b2b183Clo
	NCBI ID	<u>11595</u>
	MGI ID	99602
	Ensembl ID	ENSMUSG00000030607
	Human Ortholog	ACAN

説明

A IRES-CreERT2 expression cassette was knocked into the Acan gene stop codon site via CRISPR/Cas9 mediated recombination.

応用分野: Cre recombinase tool; When crossed with mice carrying a targeted floxed alleles, this strain is useful in eliminating tissue-specific conditional expression of the gene. These mice could be used to study degenerative cartilage diseases such as osteoarthritis and degenerative disc disease.

*Literature published using this strain should indicate: Acan-IRES-CreERT2 mice (Cat. NO. NM-KI-200143) were purchased from Shanghai Model Organisms Center, Inc..

表現型デロタ

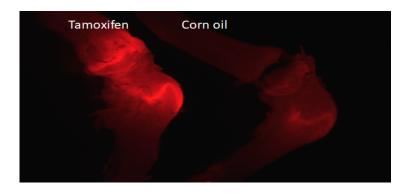




Fig. 1 CreERT2-mediated recombination in the joints of Acan^{CreERT2/+}; Rosa26^{tdTomato/+} mouse. TdTomato(red) expression can be detected in the growth plate and articular cartilage of Acan^{CreERT2/+}; Rosa26^{tdTomato/+} mouse after tamoxifen treatment.

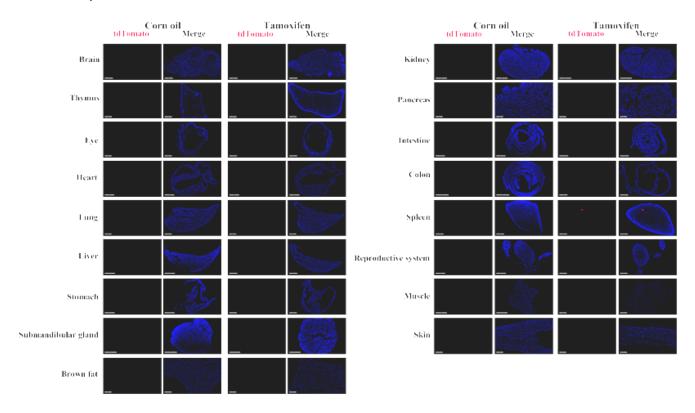


Fig. 2 Detection of tdTomato(red) in various tissues of Acan^{creERT2/+}; Rosa26^{tdTomato/+} mice. Cre mediated recombination can be detected in the growth plate and articular cartilage after tamoxifen treatment. Tdtomato expression can be also detected in individual cells derived from the brown fat, spleen, testis, skin, skeletal muscle and cardiac valves. Tdtomato expression can not be detected in the brain, thymus, retina, lung, liver, stomach, submandibular gland, kidney, pancreas, intestine, colon, skin and myocardium. (For more detailed information please contact our technical advisor.)