

Prg4-CreERT2-2A-EGFP

Nomenclature C57BL/6Smoc-*Prq4*^{em(Kozak-CreERT2-2A-EGFP-WPRE-pA)1Smoc}

Cat. NO. NM-KI-225074

Strain State Repository Live

Gene Summary

Gene Symbol Prg4	Synonyms	MSF; SZP; CACP; JCAP; DOL54; lubricin
	NCBI ID	<u>96875</u>
	MGI ID	<u>1891344</u>
	Ensembl ID	ENSMUSG0000006014
	Human Ortholog	PRG4

Model Description

Kozak-CreERT2-2A-EGFP-WPRE-pA expression cassette was knocked into the Prg4 gene . *Literature published using this strain should indicate: Prg4-CreERT2-2A-EGFP mice (Cat. NO. NM-KI-225074) were purchased from Shanghai Model Organisms Center, Inc..

Validation Data

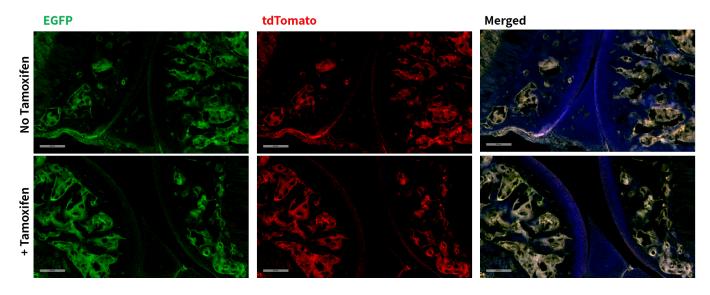


Fig 1. Cre-mediated recombination in bone of Prg4^{CreERT2-EGFP/+}; Rosa26^{tdTomato/+} mice.



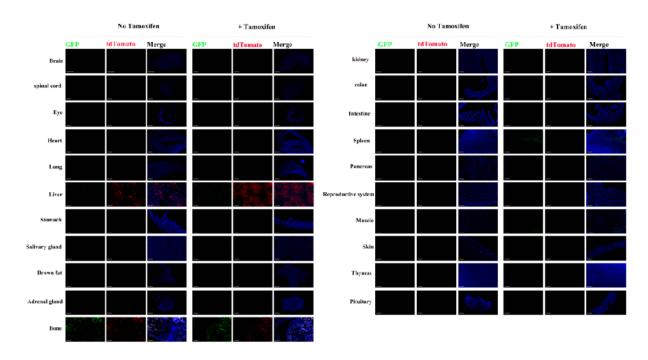


Fig 2. Detection of tdTomato (red) and GFP (green) in various tissues of Prg4^{creERT2-EGFP/+}; Rosa26^{tdTomato/+} mice. Expression tissues include: liver, bone, spleen, muscle, hair follicle. A few cells expressed in heart, salivary gland, adrenal gland, small intestine, testis. Tissues that unexpressed include brain, spinal cord, retina, lung, stomach, brown fat, kidney, colon, pancreas, thymus, pituitary. (37-day old, male)

TdTomato labeling was observed in tissue sections of Prg4CreERT2-EGFP/+;Rosa26tdTomato/+ untreated treated groups, indicating spontaneous Cre activity in the absence of tamoxifen.

(For more detailed information please contact our technical advisor.)