

Penk-IRES-Cre

系統名	C57BL/6Smoc- <i>Penk</i> ^{em1(IRES2-iCre)Smoc}
SMOC番号	NM-KI-200088
維持形態	Repository Live

遺伝子の概要

Gene Symbol Penk	Synonyms	ENK; PPA; Penk1; AI326464
	NCBI ID	18619
	MGI ID	104629
	Ensembl ID	ENSMUSG00000045573
	Human Ortholog	PENK

説明

A IRES2-iCre expression cassette was knocked into the Penk gene stop codon site.

応用分野: Penk gene encodes prodynorphin. When crossed with a strain carrying a gene flanked by loxP sites, the flanked gene will be removed in cells expressing cre. The gene product is involved in regulating synaptic plasticity, a crucial neurochemical mechanism underlying learning and memory.

*Literature published using this strain should indicate: Penk-IRES-Cre mice (Cat. NO. NM-KI-200088) were purchased from Shanghai Model Organisms Center, Inc..

表現型データ

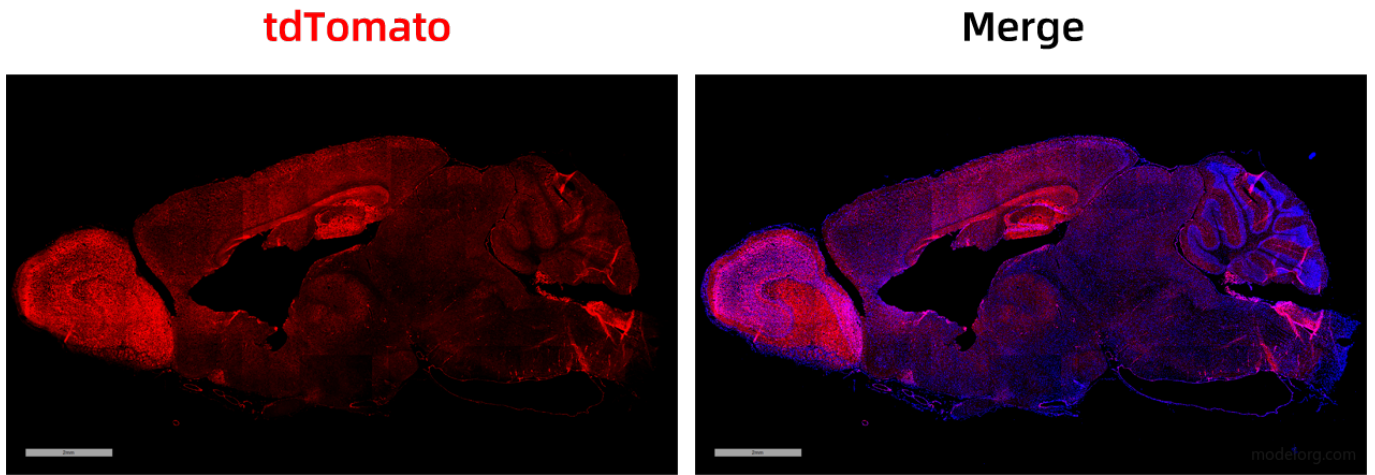


Fig. 1 Cre-mediated recombination in the brain of *PenkCre/+; Rosa26tdTomato/+* mouse. TdTomato(red) expression can be detected in the brain of *PenkCre/+; Rosa26tdTomato/+* mouse.

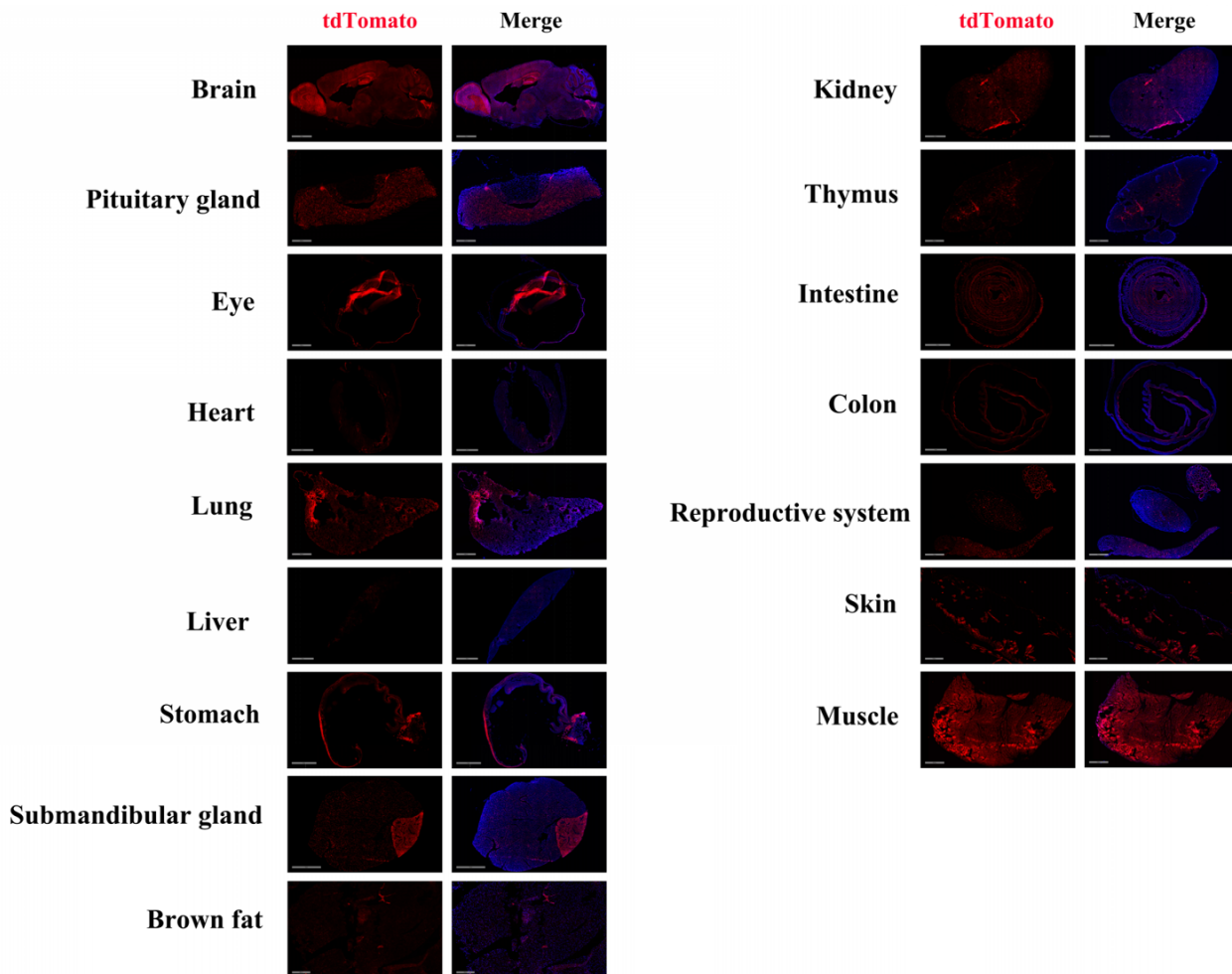


Fig. 2 Detection of tdTomato(red) in various tissues of *PenkCre/+; Rosa26tdTomato/+* mice. Tdtomato is expressed throughout the brain. And cre-mediated recombination can be detected in some cells of the pituitary gland, kidney, intestine, colon, retina, brown fat, testis, epididymis, salivary gland, stomach, thymus, lung, heart, liver and skin. (For more detailed information please contact our technical advisor.)

