

Pdyn-IRES-Cre

系統名	C57BL/6Smoc- <i>Pdyn</i> ^{em1(IRES-iCre)Smoc}
SMOC番号	NM-KI-200089
維持形態	Sperm cryopreservation

遺伝子の概要

Gene Symbol Pdyn	Synonyms	Dyn
	NCBI ID	18610
	MGI ID	97535
	Ensembl ID	ENSMUSG00000027400
	Human Ortholog	PDYN

説明

A IRES-iCre expression cassette was knocked into the Pdyn gene stop codon site. Pdyn encodes prodynorphin. When crossed with a strain carrying a gene flanked by loxP sites, the flanked gene will be removed in cells expressing cre. This strain may be useful for studying depression, stress, anxiety, pain response, circadian rhythm and appetite control.

応用分野: Cre recombinase tool; Neuroscience

*Literature published using this strain should indicate: Pdyn-IRES-Cre mice (Cat. NO. NM-KI-200089) were purchased from Shanghai Model Organisms Center, Inc..

表現型データ

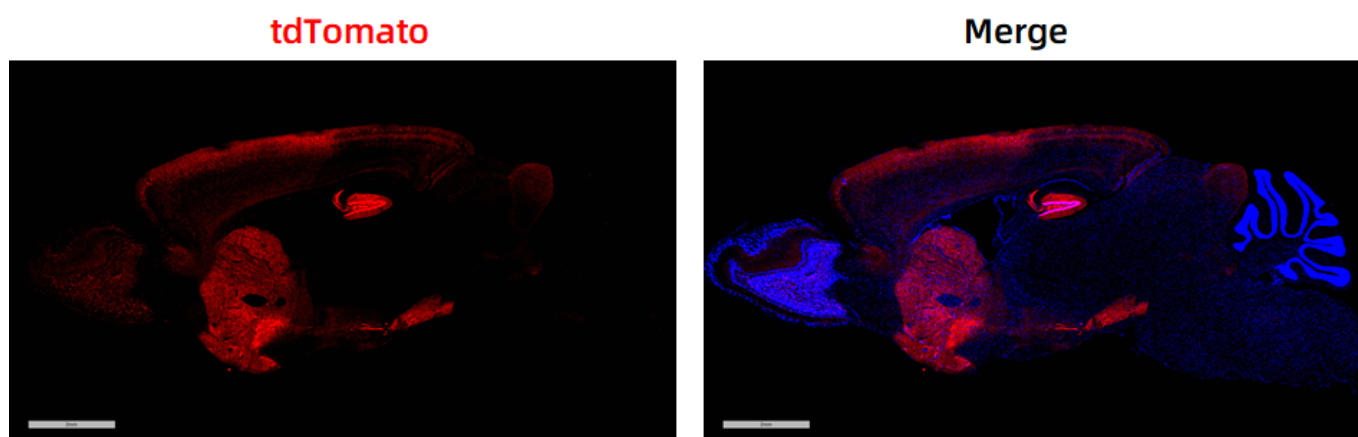


Fig. 1 Cre-mediated recombination in the brain of $Pdyn^{Cre/+}; Rosa26^{tdTomato/+}$ mouse. TdTomato(red) expression can be detected in the cortex, hippocampus and striatum of $Pdyn^{Cre/+}; Rosa26^{tdTomato/+}$ mouse.

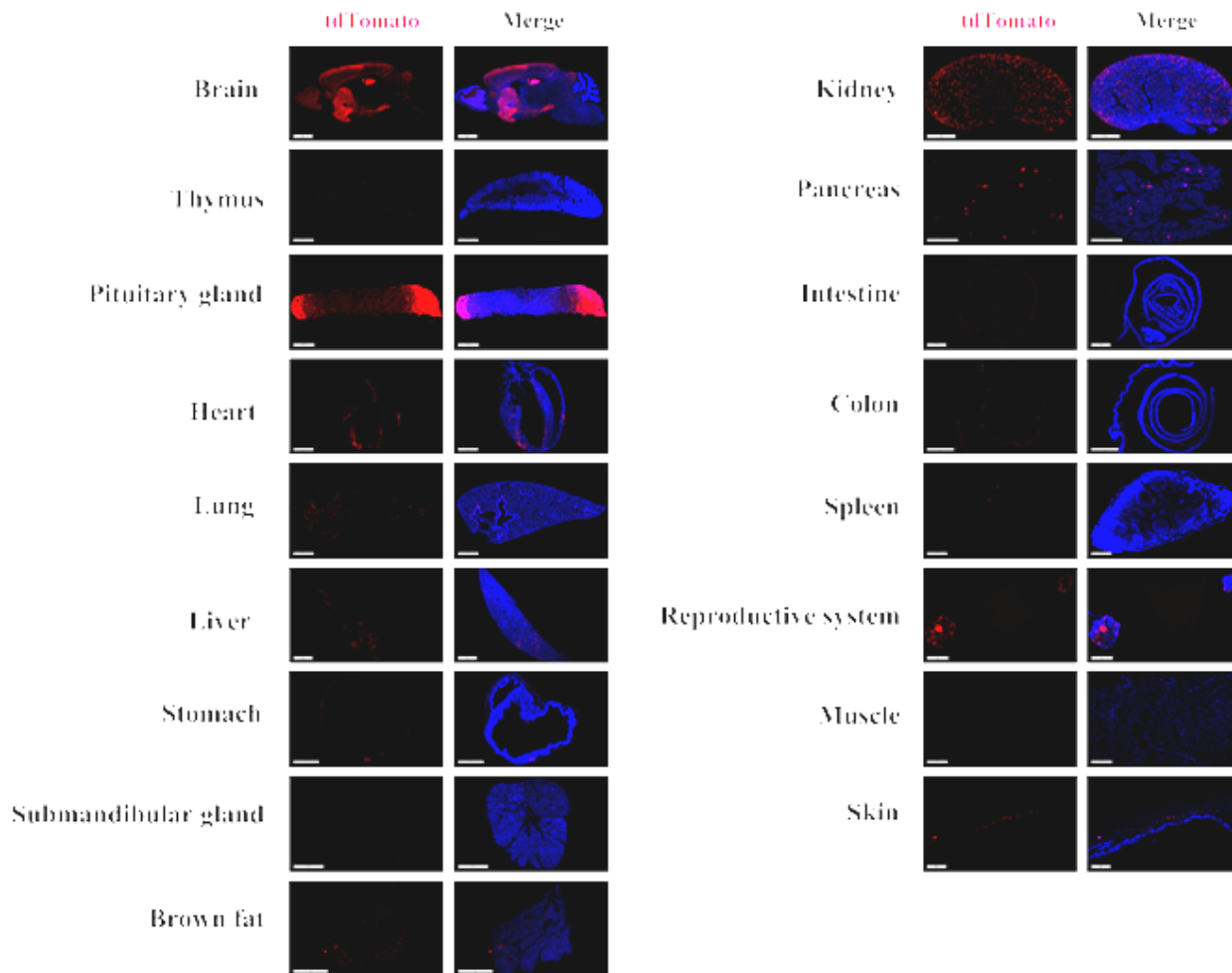


Fig. 2 Detection of tdTomato(red) in various tissues of $Pdyn^{Cre/+}; Rosa26^{tdTomato/+}$ mice. Cre mediated recombination can be detected in some cells of the brain, kidney, pancreas islet, heart, liver, lung, stomach, brown fat, intestine, colon, ovary, thymus and spleen. Tdtomato expression can not be observed in the salivary gland, skin or muscle. (For more detailed information please contact our technical advisor.)