

# **Pdyn-IRES-Cre**

**Nomenclature** C57BL/6Smoc-*Pdyn*<sup>em1(IRES-iCre)Smoc</sup>

**Cat. NO.** NM-KI-200089

**Strain State** Sperm cryopreservation

### **Gene Summary**

Gene Symbol Pdyn	Synonyms	Dyn
	NCBI ID	<u>18610</u>
	MGI ID	<u>97535</u>
	Ensembl ID	ENSMUSG00000027400
	Human Ortholog	PDYN

## **Model Description**

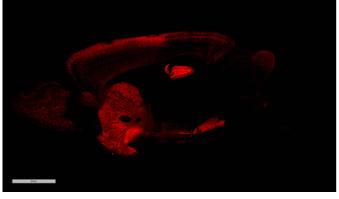
A IRES-iCre expression cassette was knocked into the Pdyn gene stop codon site. Pdyn encodes prodynorphin. When crossed with a strain carrying a gene flanked by loxP sites, the flanked gene will be removed in cells expressing cre. This strain may be useful for studying depression, stress, anxiety, pain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

**Research Application**: 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..

#### **Validation Data**

# tdTomato



#### Merge

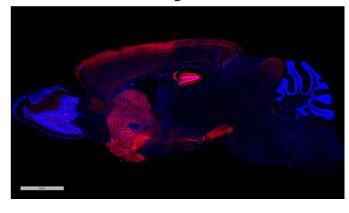




Fig. 1 Cre-mediated recombination in the brain of Pdyn<sup>Cre/+</sup>; Rosa26<sup>tdTomato/+</sup> mouse. TdTomato(red) expression can be detected in the cortex, hippocampus and striatum of Pdyn<sup>Cre/+</sup>; Rosa26<sup>tdTomato/+</sup> mouse.

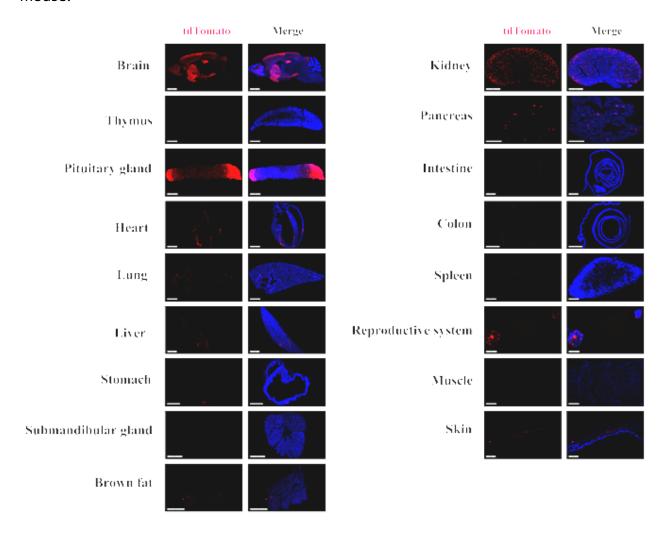


Fig. 2 Detection of tdTomato(red) in various tissues of Pdyn<sup>Cre/+</sup>; Rosa26<sup>tdTomato/+</sup> mice. Cre mediated recombination can be detected in some cells of the brain, kidney, pancreas islet, heart, liver, lung, stomach, brown fat, intestine, colon, ovary, thymus and spleen. Tdtomato expression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