

Prl-IRES-CreERT2

| | |
|---------------------|--|
| Nomenclature | C57BL/6Smoc- <i>Prl</i> ^{em1(IRES-CreERT2)Smoc} |
| Cat. NO. | NM-KI-200170 |
| Strain State | Sperm cryopreservation |

Gene Summary

| | | |
|----------------------------------|-----------------------|------------------------------------|
| Gene Symbol Prl | Synonyms | Gha1; Prl1a1; AV290867 |
| | NCBI ID | 19109 |
| | MGI ID | 97762 |
| | Ensembl ID | ENSMUSG00000021342 |
| | Human Ortholog | PRL |

Model Description

A IRES-CreERT2 expression cassette was knocked into the Prl gene stop codon site. Prolactin (PRL) is a hormone synthesized and secreted by lactotroph cells in the anterior pituitary gland. PRL is responsible for lactogenesis and other processes associated with it. When crossed with a strain carrying a gene flanked by loxP sites, the flanked gene will be removed in cells expressing cre.

Research Application: Cre recombinase tool

*Literature published using this strain should indicate: Prl-IRES-CreERT2 mice (Cat. NO. NM-KI-200170) were purchased from Shanghai Model Organisms Center, Inc..

Validation Data

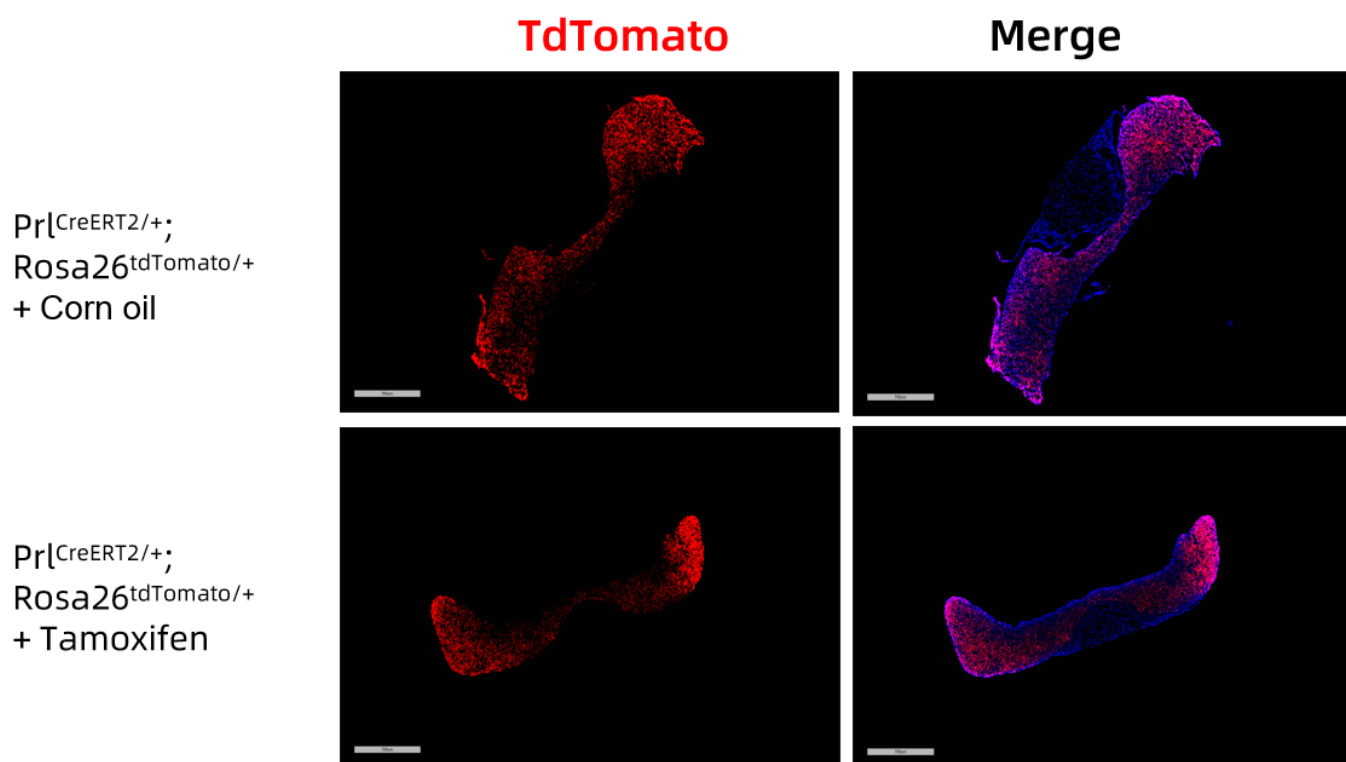


Fig. 1 CreERT2-mediated recombination in the pituitary gland of $\text{Pr}^{\text{CreERT2}/+}; \text{Rosa26}^{\text{tdTomato}/+}$ mouse. TdTomato(red) expression can be detected in the anterior pituitary gland of $\text{Pr}^{\text{CreERT2}/+}; \text{Rosa26}^{\text{tdTomato}/+}$ mouse. Some leakiness were detected prior to tamoxifen exposure.

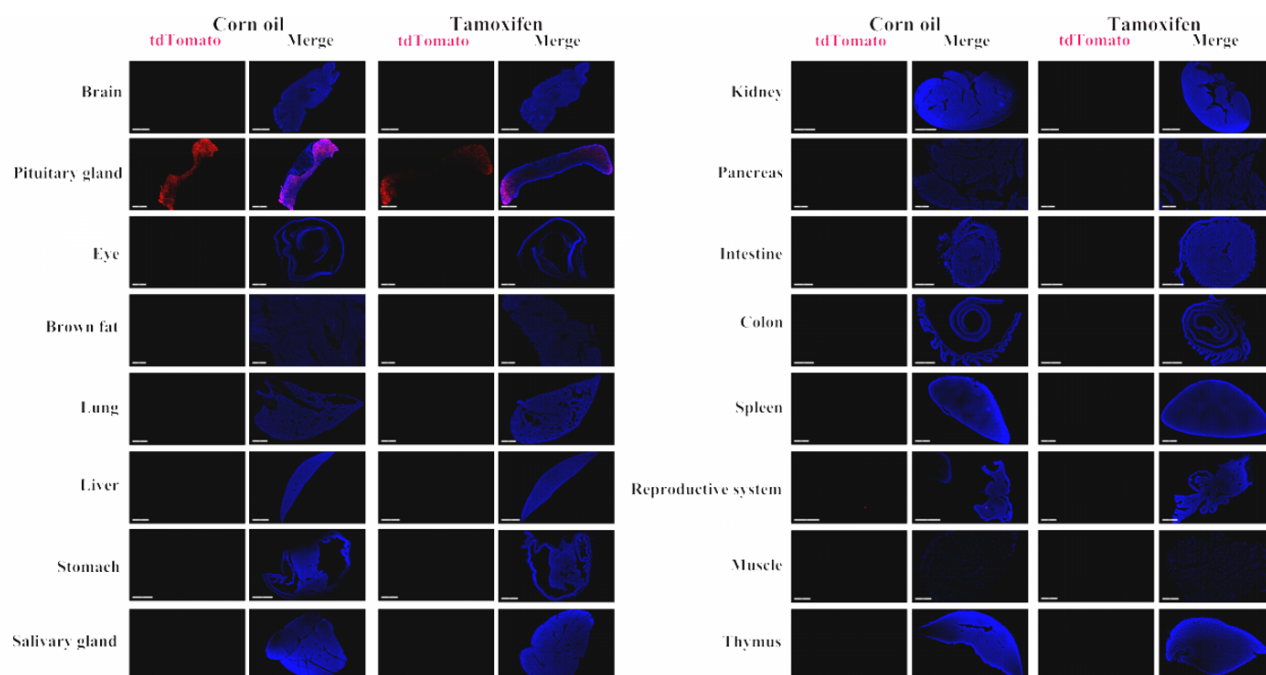


Fig. 2 Detection of tdTomato(red) in various tissues of $\text{Pr}^{\text{CreERT2}/+}; \text{Rosa26}^{\text{tdTomato}/+}$ mice. Tdtomato is expressed in the anterior pituitary gland and in individual cells of the thymus and brain. Tdtomato expression can not be observed in the retina, brown fat, lung, liver, stomach, salivary gland, kidney, pancreas, intestine, colon, ovary and muscle.(For more detailed information

please contact our technical advisor.)
