

# Isl1-Cre

|                     |                                                           |
|---------------------|-----------------------------------------------------------|
| <b>Nomenclature</b> | C57BL/6Smoc- <i>Isl1</i> <sup>em1(iCre-WPRE-pA)Smoc</sup> |
| <b>Cat. NO.</b>     | NM-KI-200126                                              |
| <b>Strain State</b> | Repository Live                                           |

## Gene Summary

|                            |                       |                                     |
|----------------------------|-----------------------|-------------------------------------|
| <b>Gene Symbol</b><br>Isl1 | <b>Synonyms</b>       | -                                   |
|                            | <b>NCBI ID</b>        | <a href="#">16392</a>               |
|                            | <b>MGI ID</b>         | <a href="#">101791</a>              |
|                            | <b>Ensembl ID</b>     | <a href="#">ENSMUSG000000042258</a> |
|                            | <b>Human Ortholog</b> | ISL1                                |

## Model Description

A iCre-WPRE-pA expression cassette was knocked into the Isl1 gene start codon site.

**Research Application:** Cre recombinase tool; Isl1-Cre mice express Cre recombinase under the control of the ISL1 transcription factor. It can be used for lineage tracing of Isl1 positive cells.

\*Literature published using this strain should indicate: Isl1-Cre mice (Cat. NO. NM-KI-200126) were purchased from Shanghai Model Organisms Center, Inc..

## Validation Data

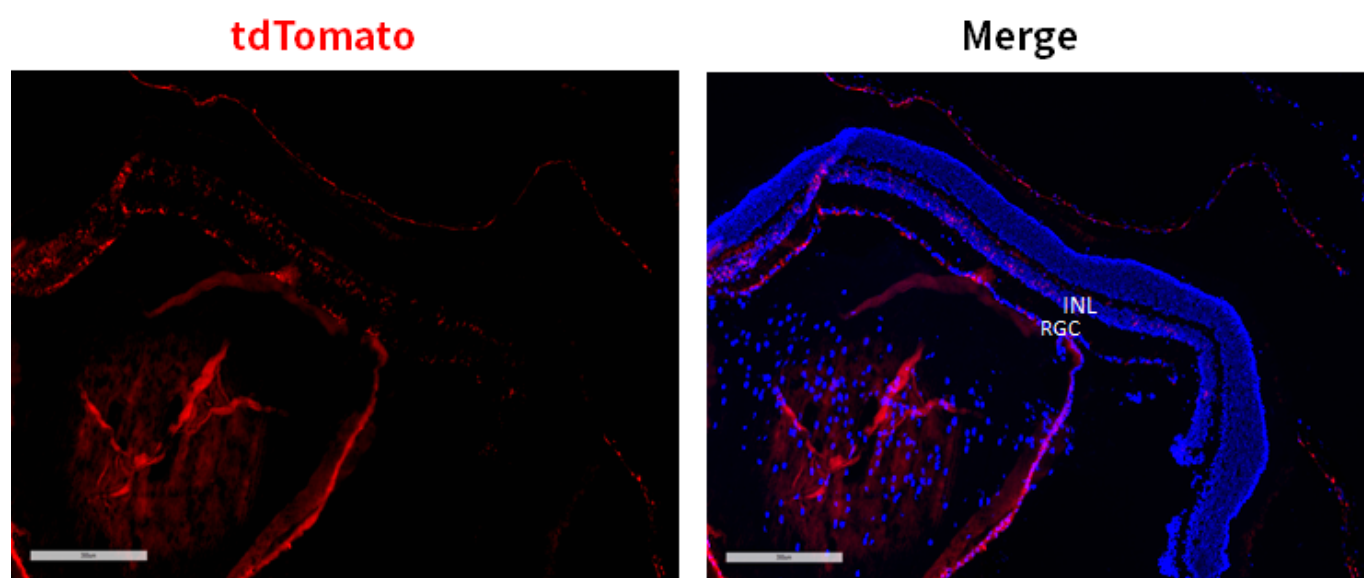


Fig. 1 Cre-mediated recombination in the retina of  $Isl^{CreERT2/+}; Rosa26^{tdTomato/+}$  mouse. TdTomato(red) expression can be detected in the retinal ganglion cell layer (RGC) and inner nuclear layer (INL) of  $Isl^{Cre/+}; Rosa26^{tdTomato/+}$  mouse.

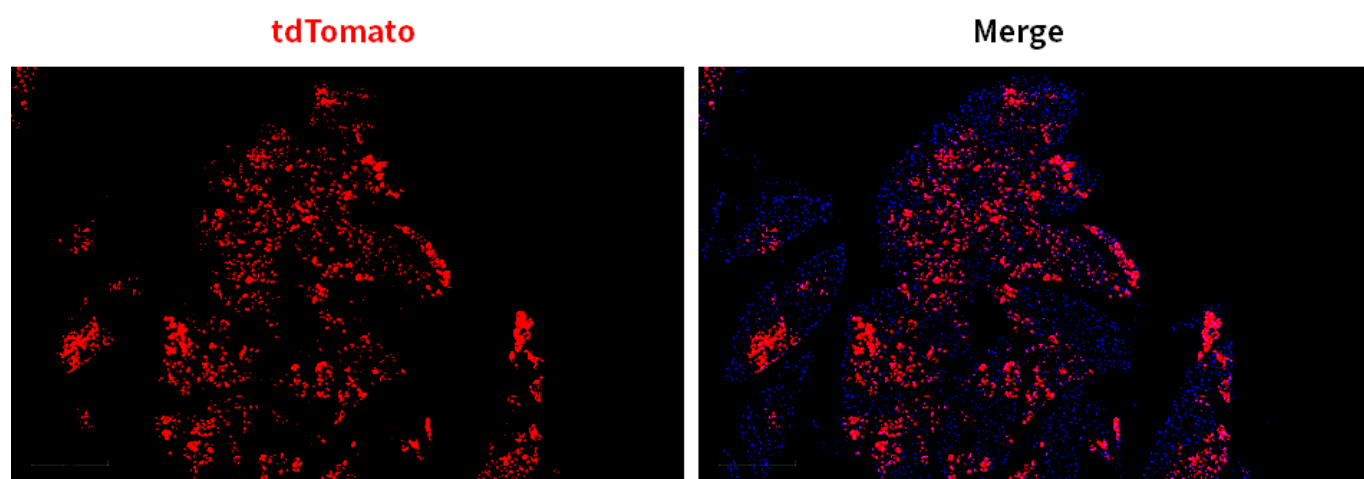


Fig. 2 Cre-mediated recombination in the pancreas of  $Isl^{Cre/+}; Rosa26^{tdTomato/+}$  mouse. TdTomato(red) expression can be detected in the acinar cells and islet cells derived from  $Isl^{Cre/+}; Rosa26^{tdTomato/+}$  mouse.

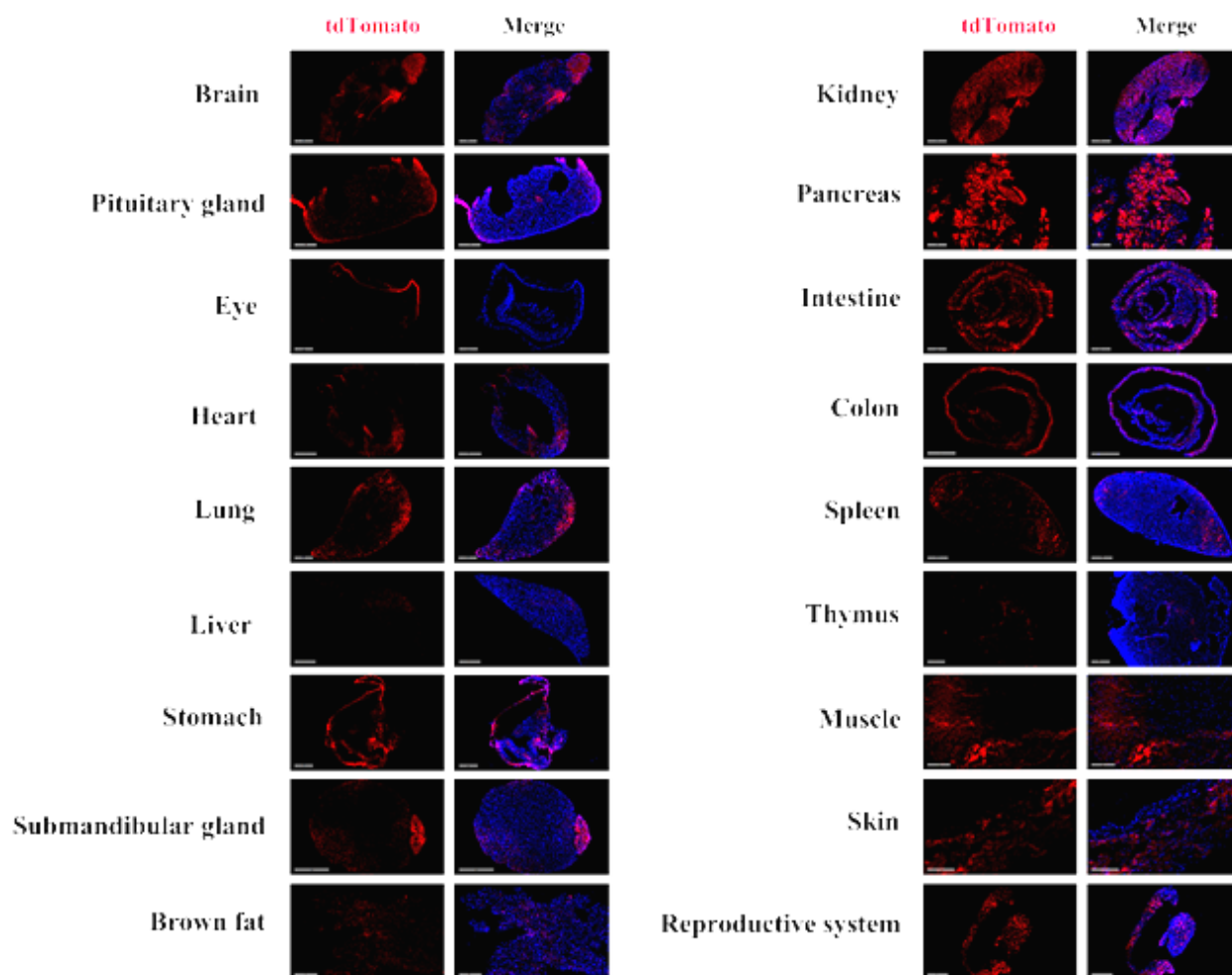


Fig. 3 Detection of tdTomato(red) in various tissues of  $Isl^{Cre/+}; Rosa26^{tdTomato/+}$  mice. Cre mediated recombination can be detected in the retina, pancreas, heart, brain, pituitary gland, lung, liver, stomach, submandibular gland, brown fat, kidney, intestine, colon, spleen, thymus, testis and epididymis. (For more detailed information please contact our technical advisor.)