

Avp-IRES-Cre

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| Nomenclature | C57BL/6Smoc-Avp ^{em1(IRES2-Cre-WPRE-polyA)Smoc} |
| Cat. NO. | NM-KI-200142 |
| Strain State | Repository Live |

Gene Summary

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|---------------------------|-----------------------|------------------------------------|
| Gene Symbol Avp | Synonyms | Vp; Vsp |
| | NCBI ID | 11998 |
| | MGI ID | 88121 |
| | Ensembl ID | ENSMUSG00000037727 |
| | Human Ortholog | AVP |

Model Description

A IRES2-Cre-WPRE-polyA expression cassette was knocked into the Avp gene stop codon site. Avp encodes arginine vasopressin. 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 hypertension.

Research Application: Cre recombinase tool; Neuroscience

*Literature published using this strain should indicate: Avp-IRES-Cre mice (Cat. NO. NM-KI-200142) were purchased from Shanghai Model Organisms Center, Inc..

Validation Data

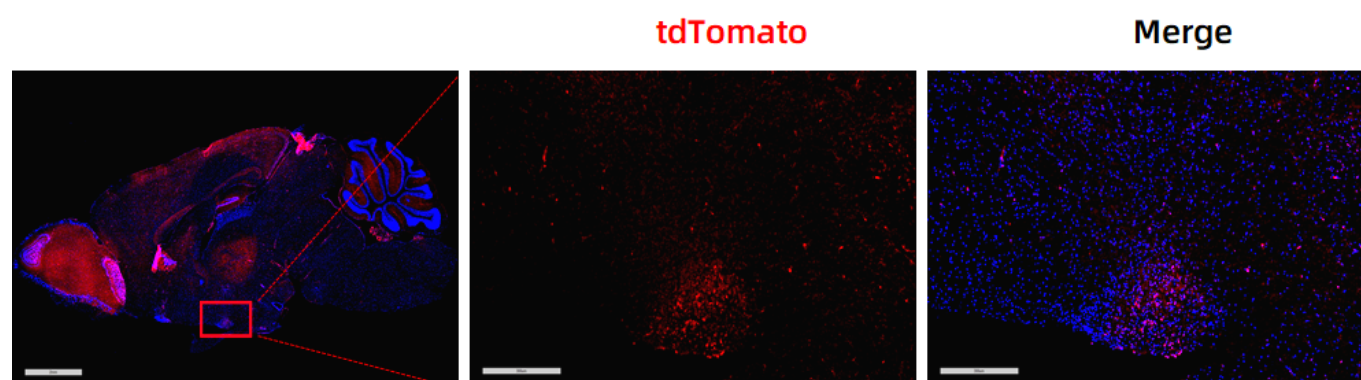


Fig. 1 Cre-mediated recombination in the brain of Avp^{Cre/+}; Rosa26^{tdTomato/+} mouse. TdTomato(red)

expression can be detected in the suprachiasmatic nucleus (SCN) of $Avp^{Cre/+}; Rosa26^{tdTomato/+}$ mouse.

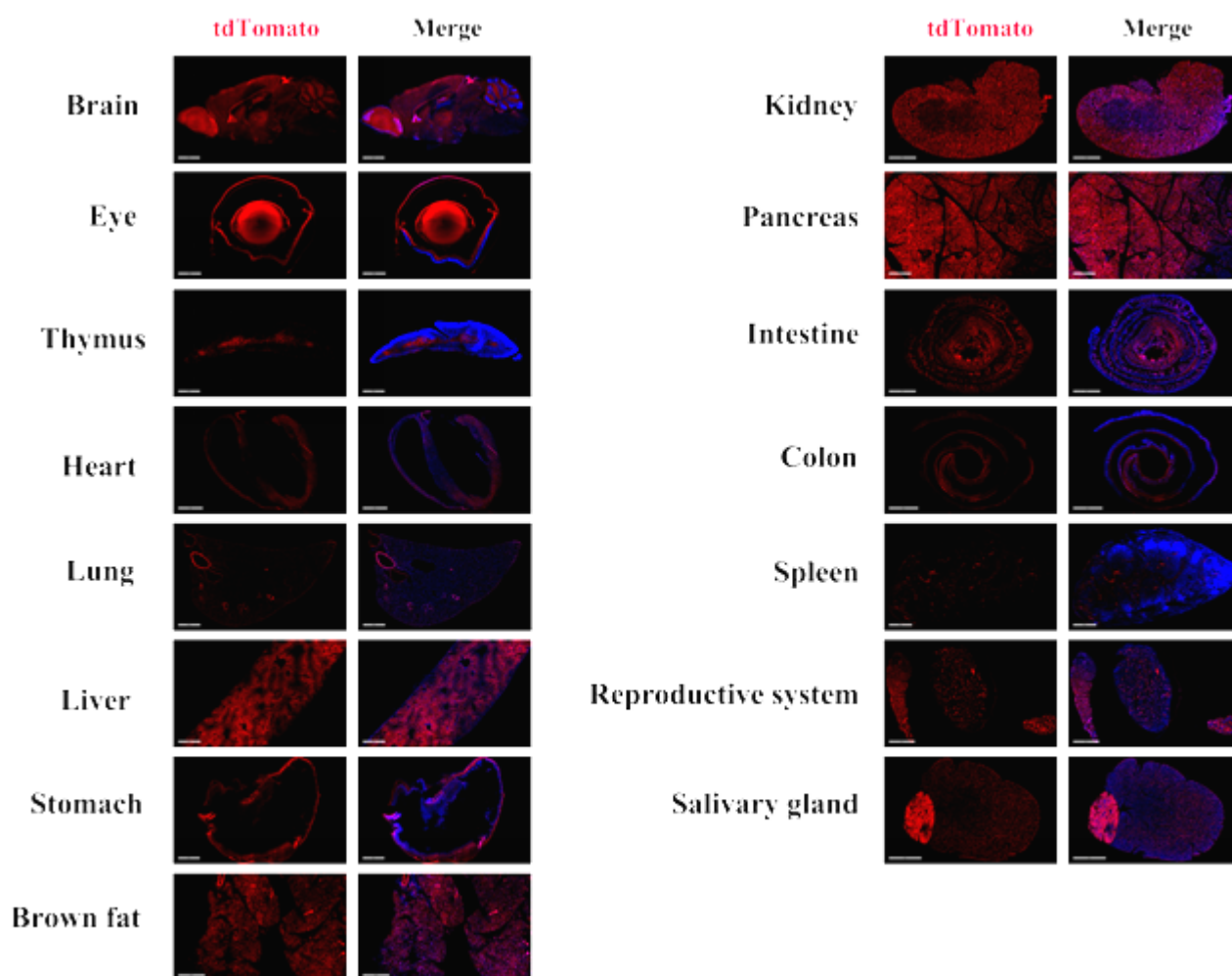


Fig. 2 Detection of tdTomato(red) in various tissues of $Avp^{Cre/+}; Rosa26^{tdTomato/+}$ mice. Cre mediated recombination can be detected in some cells of the brain, kidney, intestine, colon, eyes, brown fat, testis, epididymis, salivary gland, stomach, thymus, liver, pancreas, muscle, spleen and heart. (For more detailed information please contact our technical advisor.)