

Avp-IRES-Cre

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

Gene Summary

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

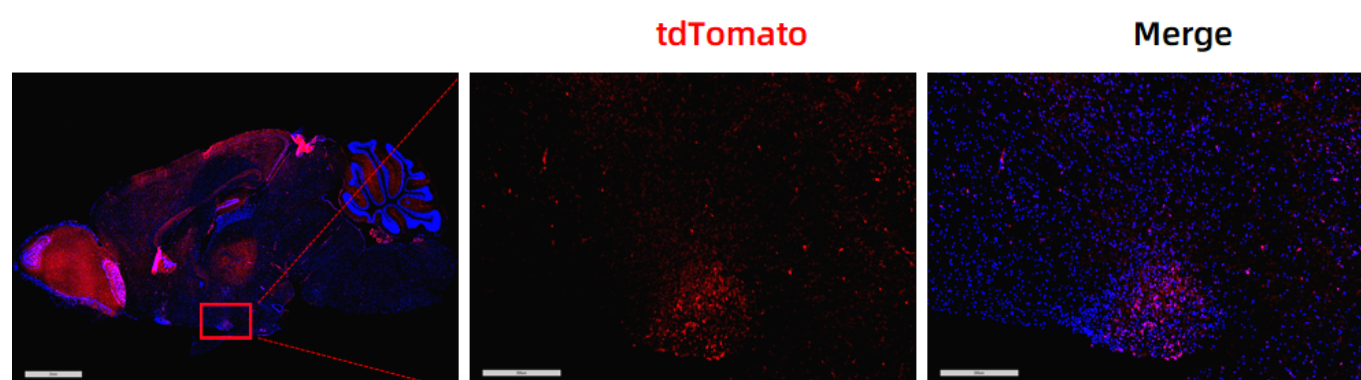


Fig. 1 Cre-mediated recombination in the brain of Avp^{Cre/+}; Rosa26^{tdTomato/+} mouse. TdTomato(red)

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

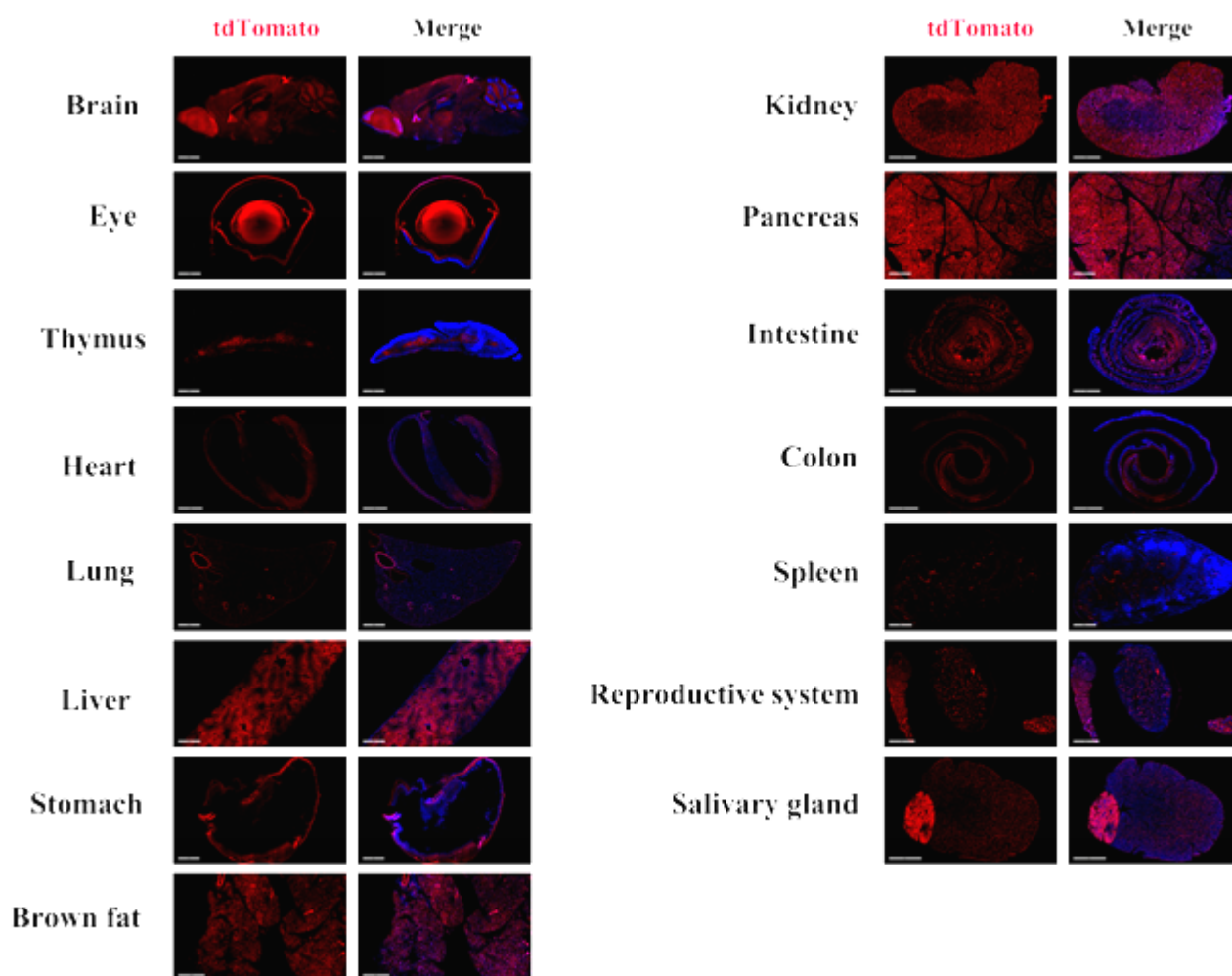


Fig. 2 Detection of tdTomato(red) in various tissues of $Avp^{Cre/+}; Rosa26^{tdTomato/+}$ mice. Cre mediated recombination can be detected in some cells of the brain, kidney, intestine, colon, eyes, brown fat, testis, epididymis, salivary gland, stomach, thymus, liver, pancreas, muscle, spleen and heart.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