Mnx1-IRES-Cre

Nomenclature	C57BL/6Smoc-*Mnx1*$^{em1(IRES-Cre-WPRE-polyA)Smoc}$
Cat. NO.	NM-KI-200010
Strain State	Embryo cryopreservation

Gene Summary

Gene Symbol Mnx1	**Synonyms**	HB9; MNR2; Hlxb9
	NCBI ID	15285
	MGI ID	109160
	Ensembl ID	ENSMUSG00000001566
	Human Ortholog	MNX1

Model Description

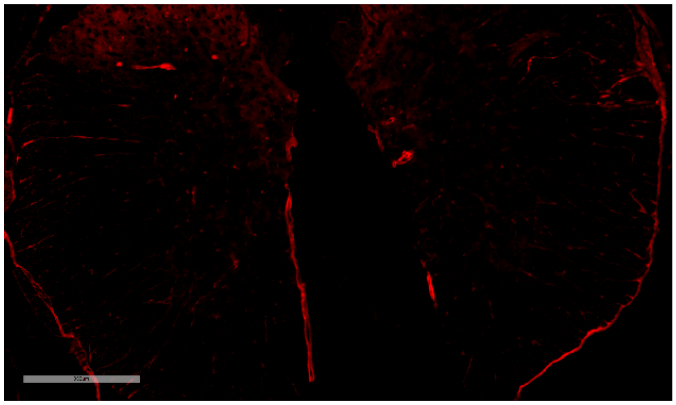
A IRES-Cre-WPRE-polyA expression cassette was knocked into the Mnx1 gene stop codon site. When crossed with a strain carrying a gene flanked by loxP sites, the flanked gene will be removed in cells expressing Mnx1. These mice may be useful for studying spinal muscular atrophy (SMA).

Research Application: Cre recombinase tool

*Literature published using this strain should indicate: Mnx1-IRES-Cre mice (Cat. NO. NM-KI-200010) were purchased from Shanghai Model Organisms Center, Inc..

Validation Data

TdTomato



Merge

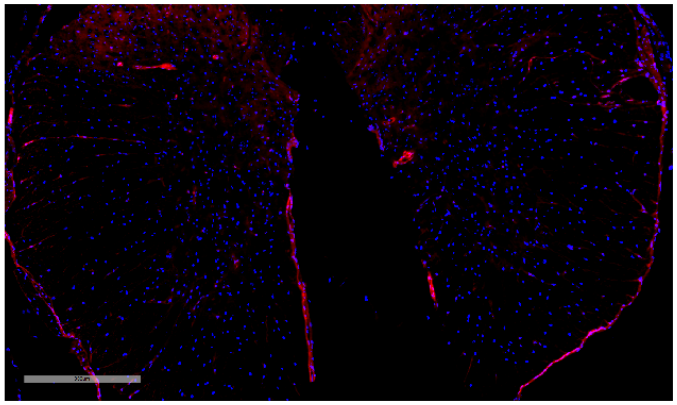


Fig. 1 Cre-mediated recombination in the spinal cord of Mnx1$^{Cre/+}$; Rosa26$^{tdTomato/+}$ mouse. TdTomato(red) expression can be detected in the spinal cord of Mnx1$^{Cre/+}$; Rosa26$^{tdTomato/+}$ mouse.

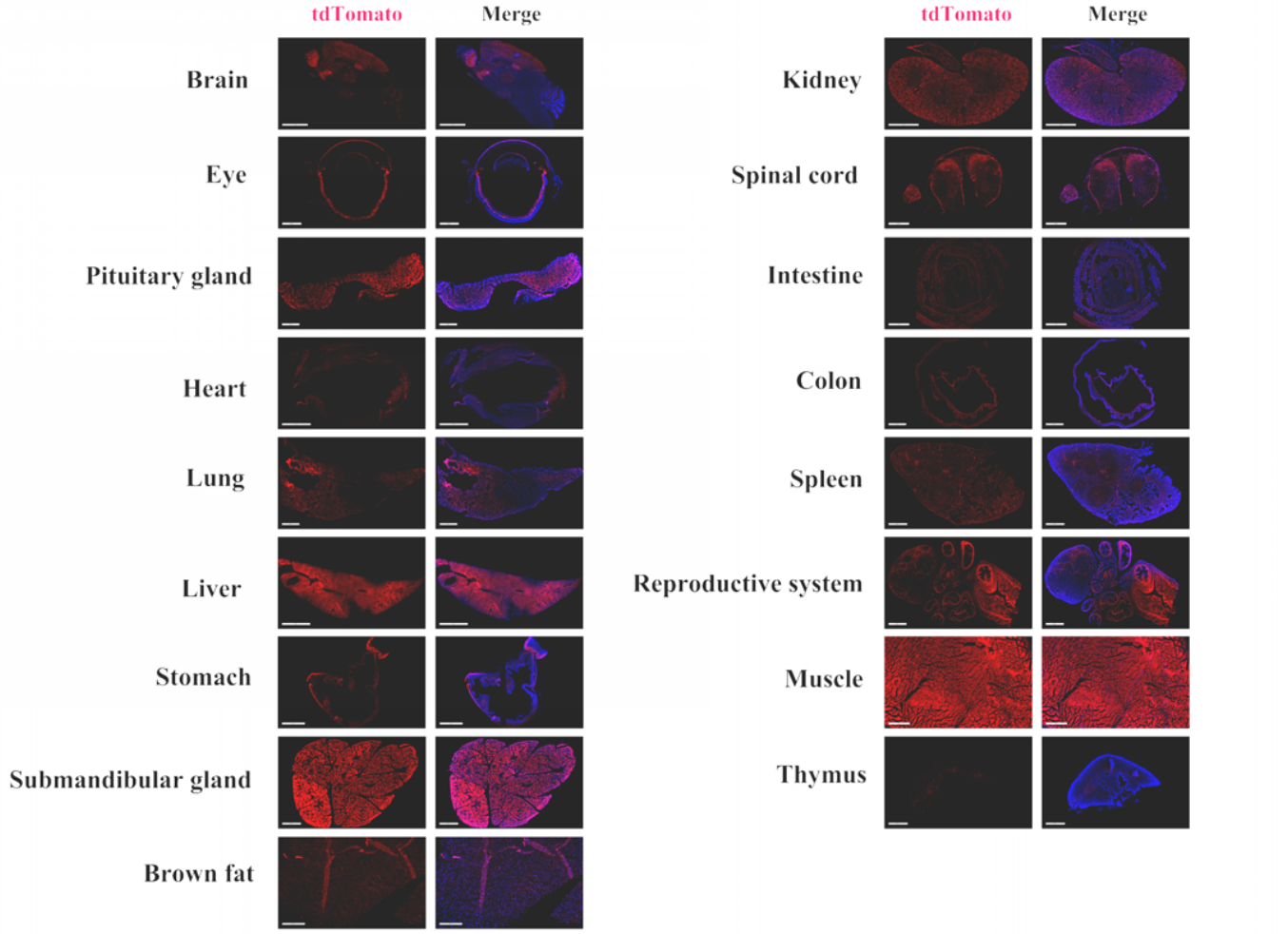


Fig. 2 Detection of tdTomato(red) in various tissues of Mnx1$^{Cre/+}$; Rosa26$^{tdTomato/+}$ mice. Tdtomato expression can be detected in the brain, kidney, intestine, colon, eyes, ovary, salivary gland, stomach, liver, skin, heart, lung, pituitary gland, muscle, spleen, brown fat and thymus. (For more detailed information please contact our technical advisor.)