

Slc6a4-Cre

Nomenclature	C57BL/6Smoc- <i>Slc6a4</i> ^{em1(iCre-pA)Smoc}
Cat. NO.	NM-KI-200115
Strain State	Sperm cryopreservation

Gene Summary

Gene Symbol Slc6a4	Synonyms	Htt; Sert; 5-HTT; AI323329
	NCBI ID	15567
	MGI ID	96285
	Ensembl ID	ENSMUSG00000020838
	Human Ortholog	SLC6A4

Model Description

A iCre-pA expression cassette was knocked into the Slc6a4 gene start codon site. When crossed with a strain carrying a gene flanked by loxP sites, the flanked gene will be removed in cells expressing Cre. The gene product has been involved in the neurological disorders such as addiction and depression.

Research Application: Cre recombinase tool

*Literature published using this strain should indicate: Slc6a4-Cre mice (Cat. NO. NM-KI-200115) were purchased from Shanghai Model Organisms Center, Inc..

Validation Data

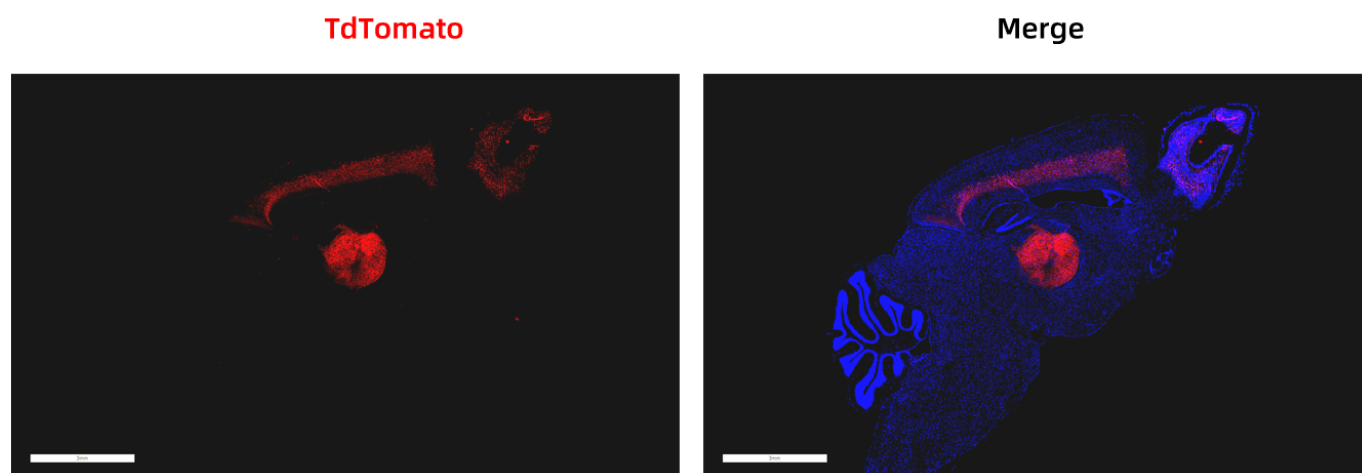


Fig. 1 Cre-mediated recombination in the brain of $Slc6a4^{Cre/+}; Rosa26^{tdTomato/+}$ mouse. TdTomato(red) expression can be detected in the cortex, thalamus and olfactory bulb of $Slc6a4^{Cre/+}; Rosa26^{tdTomato/+}$ mouse.

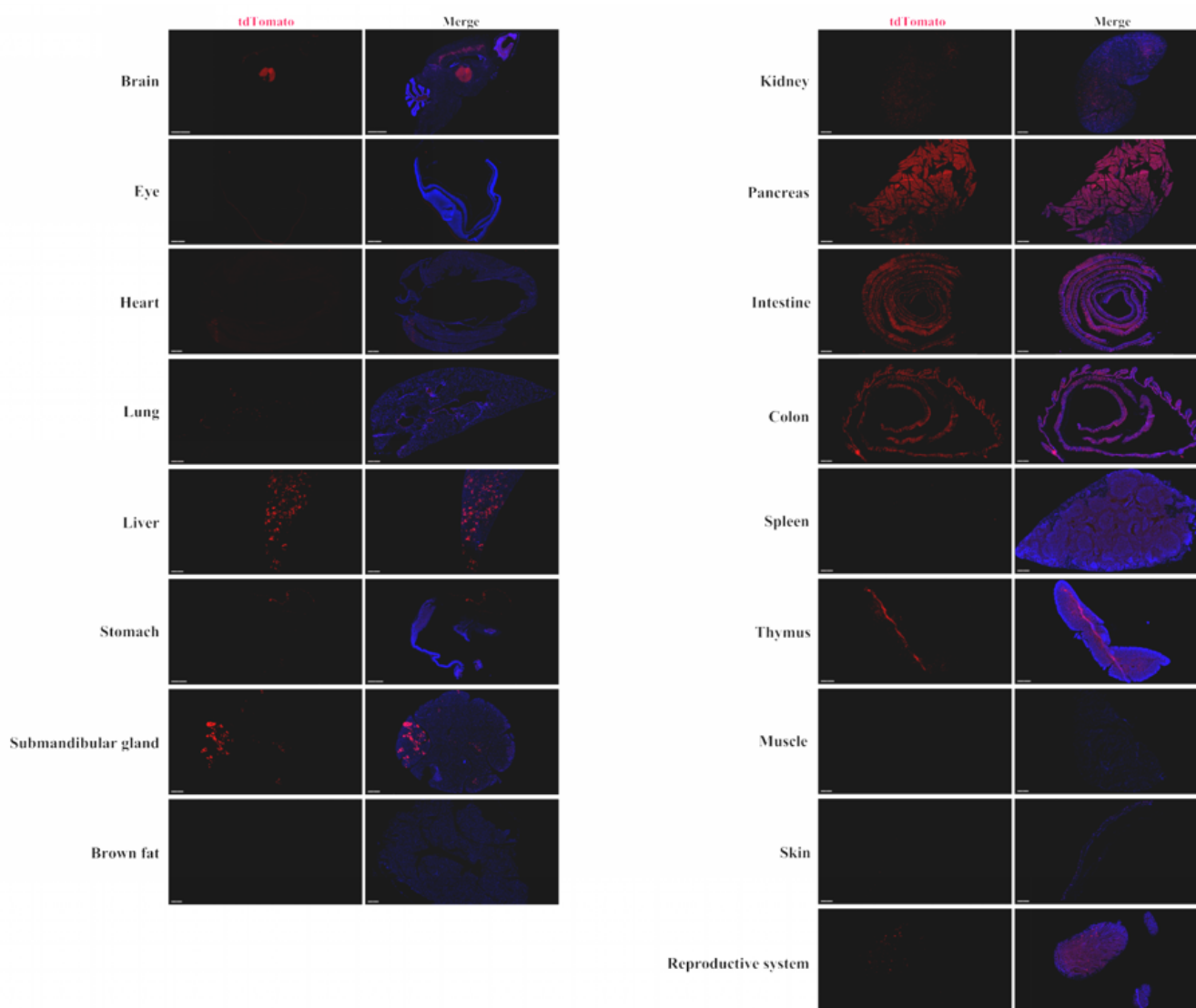


Fig. 2 Detection of tdTomato(red) in various tissues of $Slc6a4^{Cre/+}; Rosa26^{tdTomato/+}$ mice. Tdtomato expression can be detected in the cortex, thalamus, heart, bronchi, liver, stomach, salivary gland, and reproductive system.

skin, testis, kidney, thymus, spleen, pancreas, intestine and colon. Tdtomato expression can not be detected in the retina or muscle. (For more detailed information please contact our technical advisor.)
