

Wnt1-Dre

品系全名	C57BL/6JSmo- <i>Wnt1</i> ^{em1(Dre-Wpre-polyA)Smoc}
目录号	NM-KI-200176
品系状态	活体

基因信息

基因名 Wnt1	基因曾用名	sw; Int-1; Wnt-1; swaying
	染色体位置	15
	NCBI ID	22408
	MGI ID	98953
	Ensembl ID	ENSMUSG00000022997
	人类同源基因	WNT1

品系描述

A Dre-Wpre-polyA expression cassette was knocked into the Wnt1 gene start codon site. Wnt1 gene is involved in stem cell poliferation in multiple systems, including the hematopoietic system and the embryonic nervous system. This strain may be useful for studying central nervous system development. When crossed with a strain carrying a gene flanked by rox sites, the flanked gene will be removed in cells expressing dre.

应用领域: Dre recombinase tool; Neurosciences

*使用本品系发表的文献需注明: Wnt1-Dre mice (Cat. NO. NM-KI-200176) were purchased from Shanghai Model Organisms Center, Inc..

验证数据

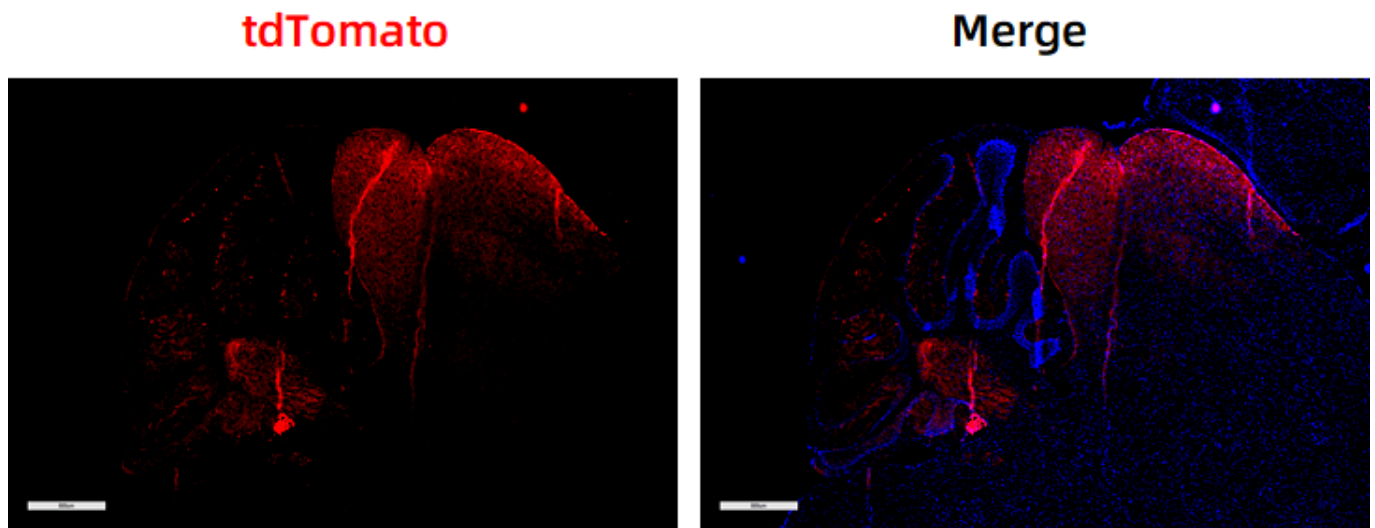


Fig. 1 Dre-mediated recombination in the brain of $Wnt1^{Dre/+}$; $Rosa26^{tdTomato/+}$ mouse. TdTomato(red) expression can be detected in the cerebellar purkinje cells and epithalamus cells of $Wnt1^{Dre/+}$; $Rosa26^{tdTomato/+}$ mouse.

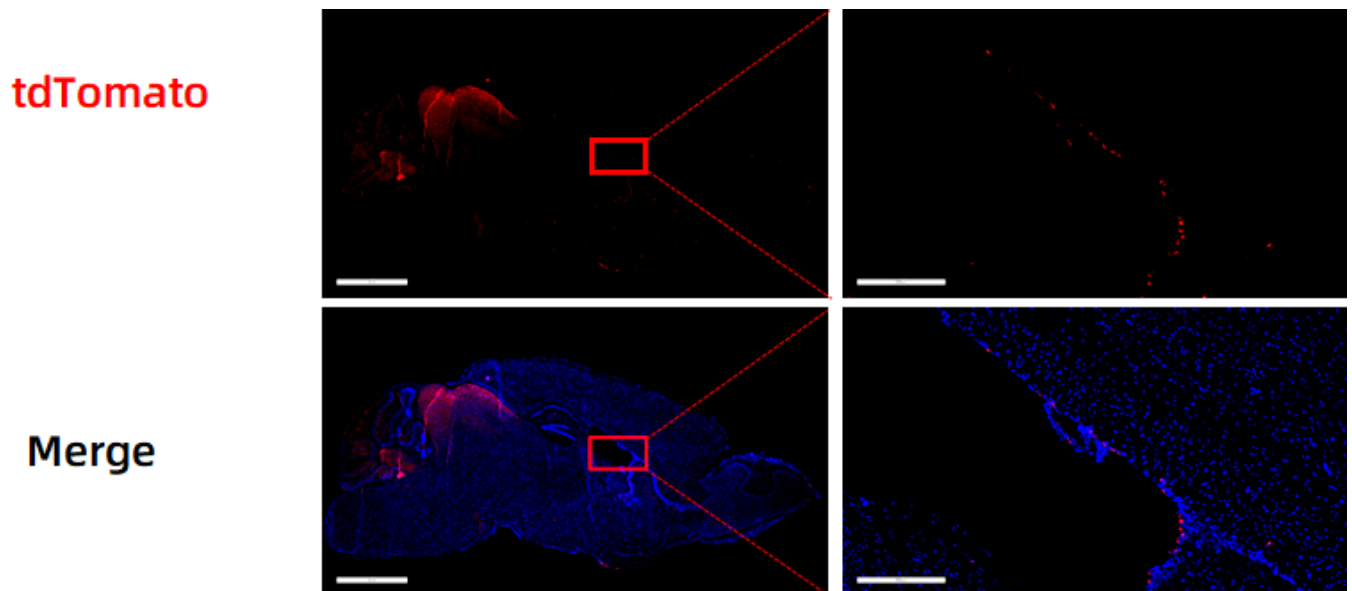


Fig. 2 Dre-mediated recombination in the brain of $Wnt1^{Dre/+}$; $Rosa26^{tdTomato/+}$ mouse. TdTomato(red) expression can be detected in some cells of the ventricle of $Wnt1^{Dre/+}$; $Rosa26^{tdTomato/+}$ mouse.

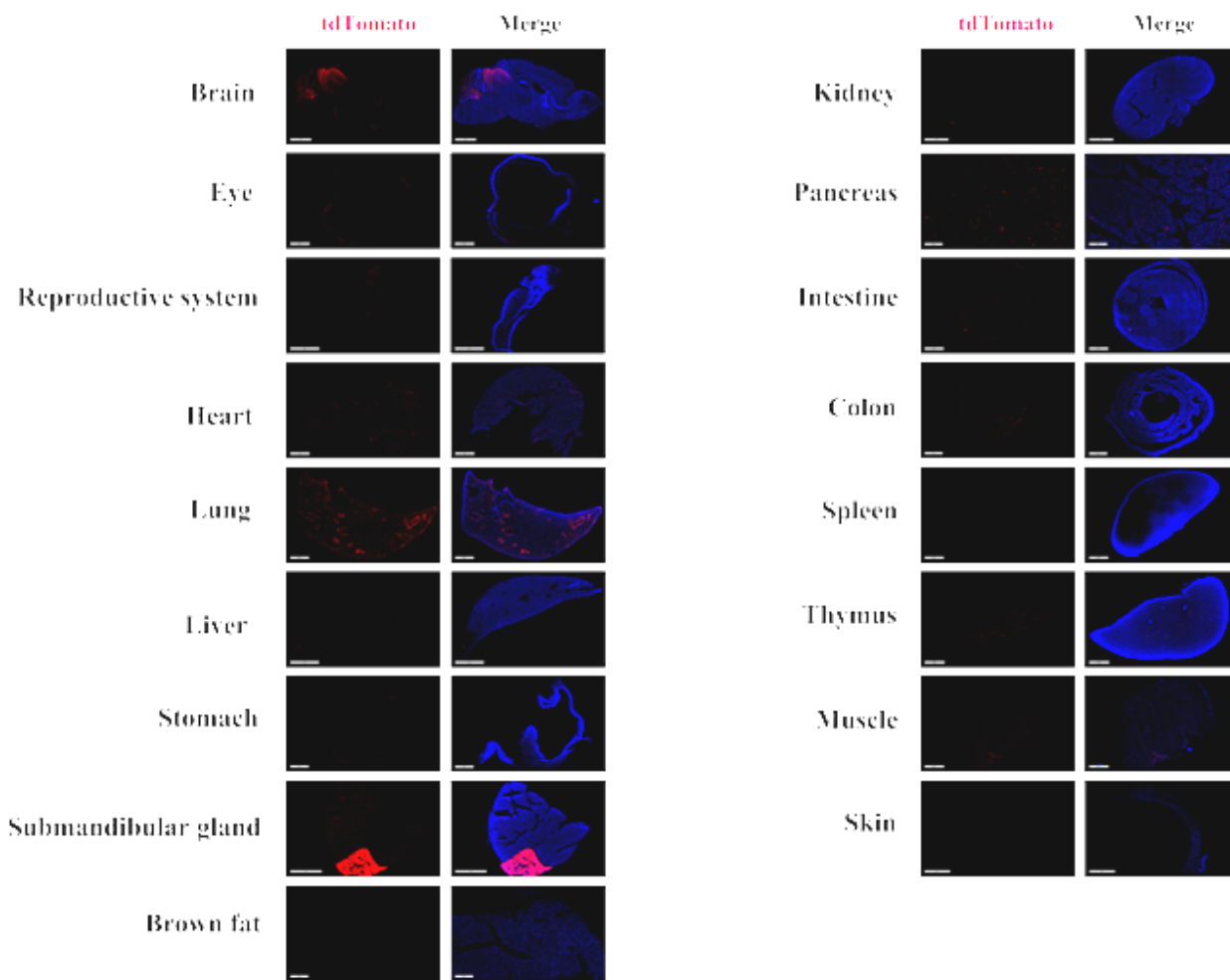


Fig. 3 Detection of tdTomato(red) in various tissues of $Wnt1^{Dre/+}; Rosa26^{tdTomato/+}$ mice. Dre mediated recombination can be detected in some cells of the lung, salivary gland, brain, eyes, stomach, thymus, colon, intestinal crypt, ovary, liver and pancreas. Tdtomato expression can not be observed in the brown fat, heart, kidney, spleen or muscle. (For more detailed information please contact our technical advisor.)