

Myl1-NLS-Cre

Nomenclature	C57BL/6Smoc- <i>Myl1</i> ^{em1(NLS-iCre-pA)Smoc}
Cat. NO.	NM-KI-200124
Strain State	Sperm cryopreservation

Gene Summary

Gene Symbol Myl1	Synonyms	Mylf; MLC1f; MLC3f; AI325107
	NCBI ID	17901
	MGI ID	97269
	Ensembl ID	ENSMUSG00000061816
	Human Ortholog	MYL1

Model Description

A NLS-iCre-pA expression cassette was knocked into the Myl1 gene start codon site via CRISPR/Cas9 mediated recombination.

Research Application: Cre-mediated recombination can be detected in the skeletal muscle of Myl1-Cre mice. When crossed with a strain carrying a gene flanked by loxP sites, the flanked gene will be removed in cells expressing cre.

*Literature published using this strain should indicate: Myl1-NLS-Cre mice (Cat. NO. NM-KI-200124) were purchased from Shanghai Model Organisms Center, Inc..

Validation Data

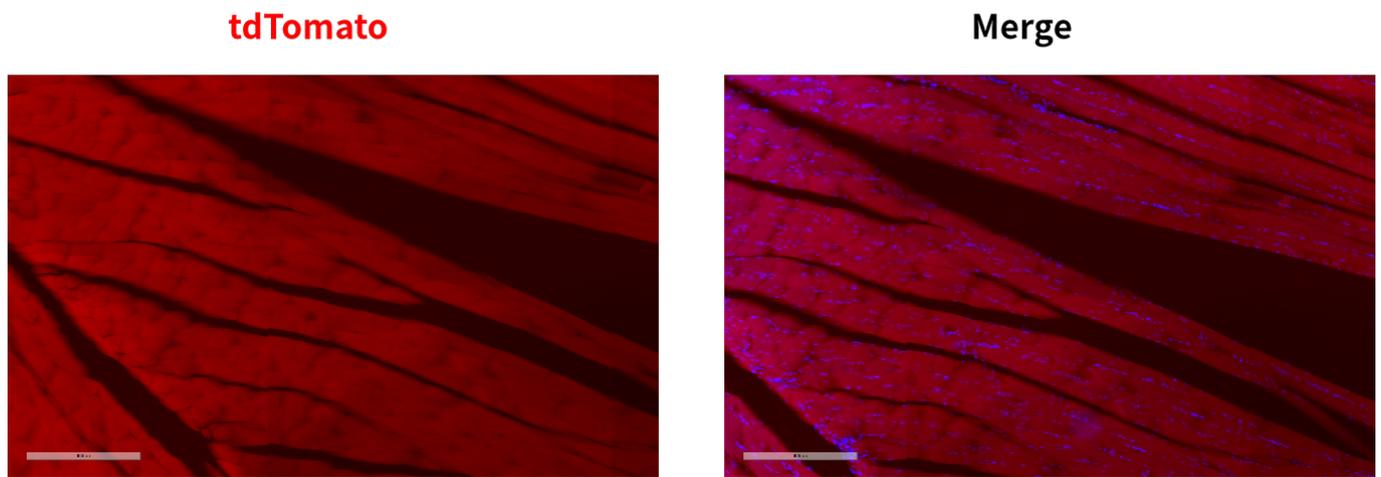


Fig. 1 Cre-mediated recombination in the skeletal muscle of $Myl1^{Cre/+}; Rosa26^{tdTomato/+}$ mouse. TdTomato(red) expression can be detected in the skeletal muscle of $Myl1^{Cre/+}; Rosa26^{tdTomato/+}$ mouse.

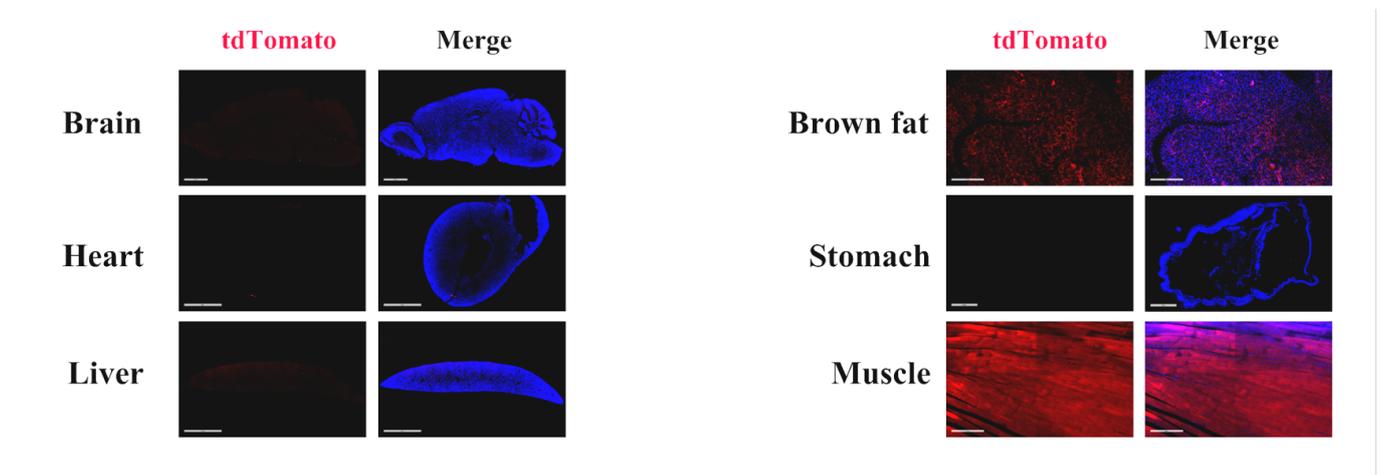


Fig. 2 Detection of tdTomato(red) in various tissues of $Myl1^{Cre/+}; Rosa26^{tdTomato/+}$ mice. Cre mediated recombination can be detected in the skeletal muscle. Tdtomato expression can also be detected in individual cells derived from liver, myocardium and brown fat. Tdtomato expression can not be observed in the brain and stomach. (For more detailed information please contact our technical advisor.)