

Myl2-Cre-IRES-EGFP

Nomenclature	C57BL/6Smoc- <i>Myl2</i> ^{em1(Cre-IRES-EGFP-WPRE-polyA)Smoc}
Cat. NO.	NM-KI-200224
Strain State	Sperm cryopreservation

Gene Summary

Gene Symbol Myl2	Synonyms	MLC-2; Mlc2v; Mylpc; MLC-2v; MLC-2s/v
	NCBI ID	17906
	MGI ID	97272
	Ensembl ID	ENSMUSG00000013936
	Human Ortholog	MYL2

Model Description

A Cre-IRES-EGFP-WPRE-polyA expression cassette was knocked into the *Myl2* gene start codon site.

Research Application: These mice express cre recombinase from the *Myl2* locus. This strain may be useful for studying cardiogenesis.

*Literature published using this strain should indicate: *Myl2*-Cre-IRES-EGFP mice (Cat. NO. NM-KI-200224) were purchased from Shanghai Model Organisms Center, Inc..

Validation Data

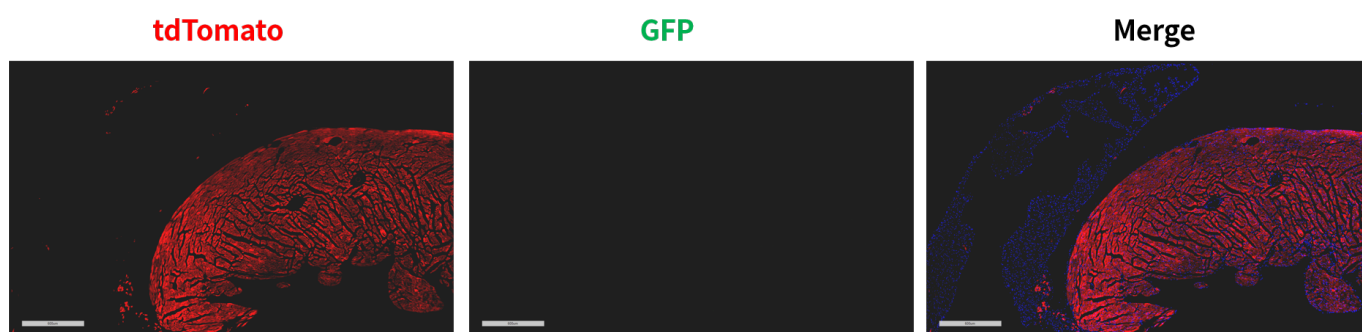


Fig.1 Cre-mediated recombination in the heart of *Myl2*^{Cre/+}; *Rosa26*^{tdTomato/+} mouse. TdTomato(red) expression can be detected in the ventricular cardiomyocytes and few atrial cells of *Myl2*^{Cre/+};

Rosa26^{tdTomato/+} mouse. EGFP(green) expression can not be observed.

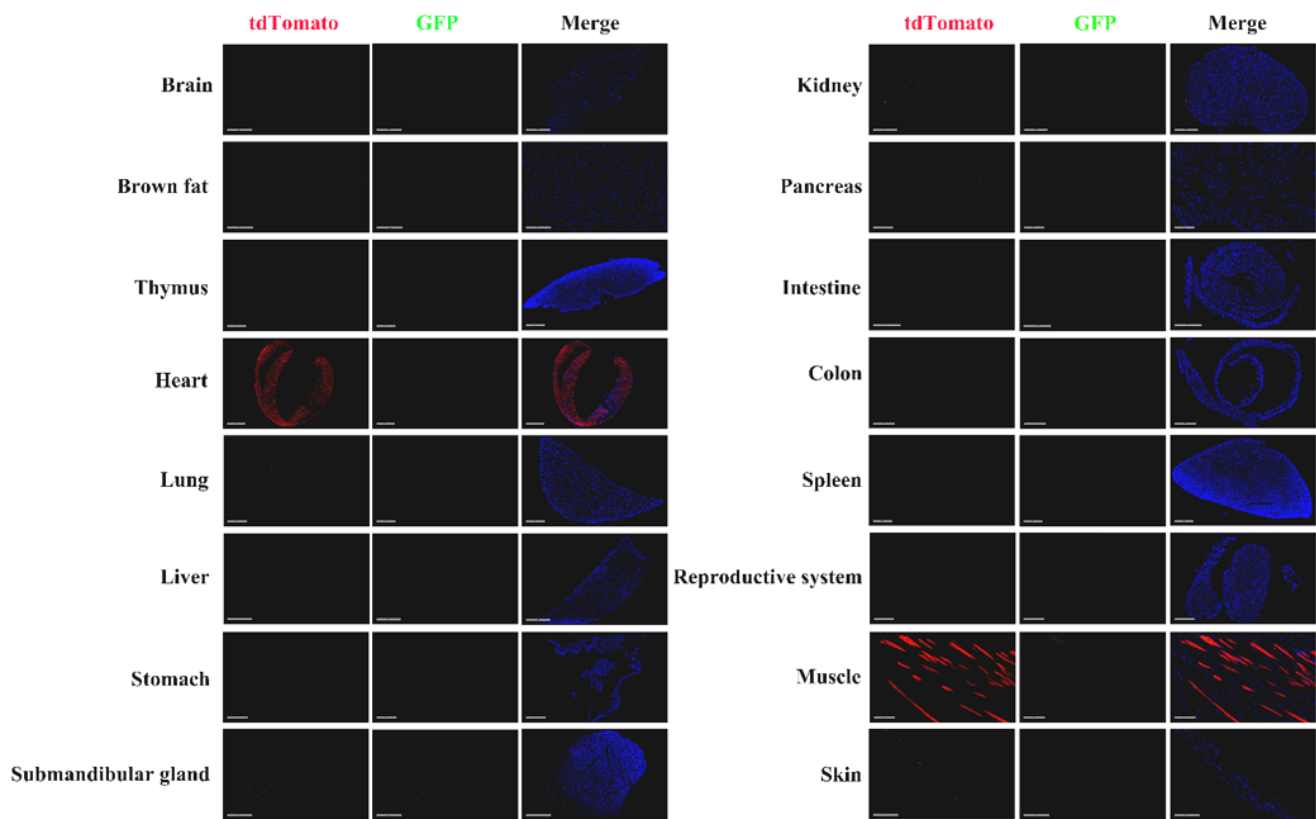


Fig. 2 Detection of tdTomato(red) and GFP(green) in various tissues of *Myf2^{Cre/+}; Rosa26^{tdTomato/+}* mice. Cre mediated recombination can be detected in the heart, few cells of thymus, bronchus, submandibular gland, skin, kidney and choroid plexus of fourth ventricle. Tdtomato expression can not be observed in the brown fat, liver, stomach, intestine, colon, spleen, pancreas, testis and epididymis. EGFP expression can not be observed.(For more detailed information please contact our technical advisor.)