

Myf6-CreERT2

Nomenclature C57BL/6Smoc-*Myf6*^{em1(CreERT2-pA)Smoc}

Cat. NO. NM-KI-200125

Strain State Repository Live

Gene Summary

| Gene Symbol Myf6 | Synonyms | MRF4; bHLHc4; herculin |
|---------------------|----------------|------------------------|
| | NCBI ID | <u>17878</u> |
| | MGI ID | <u>97253</u> |
| | Ensembl ID | ENSMUSG00000035923 |
| | Human Ortholog | MYF6 |

Model Description

A CreERT2-pA expression cassette was knocked into the Myf6 gene start codon site. Myf6 (myogenic factor 6) is a DNA-binding protein involved in muscle development. When crossed with a strain carrying a gene flanked by loxP sites, the flanked gene will be removed in cells expressing Myf6.

Research Application: Cre recombinase tool

*Literature published using this strain should indicate: Myf6-CreERT2 mice (Cat. NO. NM-KI-200125) were purchased from Shanghai Model Organisms Center, Inc..

Validation Data



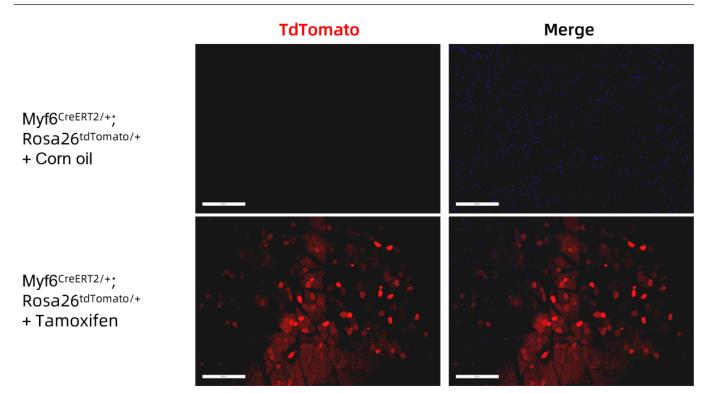


Fig. 1 CreERT2-mediated recombination in the muscle of Myf6^{CreERT2/+}; Rosa26^{tdTomato/+} mouse. TdTomato(red) expression can be detected in the muscle of Myf6^{CreERT2/+}; Rosa26^{tdTomato/+} mouse after tamoxifen treatment.

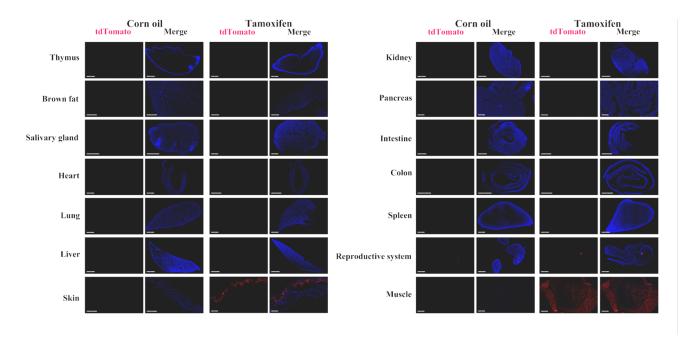


Fig. 2 Detection of tdTomato(red) in various tissues of Myf6^{CreERT2/+}; Rosa26^{tdTomato/+} mice. Tdtomato is expressed in the muscle and thymus after tamoxifen treatment. Tdtomato expression can not be observed in the brain, colon, epididymis, kidney, spleen, stomach, brown fat, intestine, heart, retina, liver, lung, pancreas, testis and salivary gland. (For more detailed information please contact our technical advisor.)

