

Cdh5-2A-CreERT2

Nomenclature	C57BL/6Smoc- <i>Cdh5</i> ^{em1(2A-CreERT2-WPRE-polyA)Smoc}
Cat. NO.	NM-KI-200173
Strain State	Repository Live

Gene Summary

Gene Symbol Cdh5	Synonyms	7B4; Vec; VECD; Cd144; VEcad; VE-Cad; AA408225
	NCBI ID	12562
	MGI ID	105057
	Ensembl ID	ENSMUSG00000031871
	Human Ortholog	CDH5

Model Description

A 2A-CreERT2-WPRE-polyA expression cassette was knocked into the Cdh5 gene stop codon site.

Research Application: CDH5(vascular endothelial cadherin ,VEC) is expressed in the vasculature. VEC-Cre will mark both endothelial cells and blood cells in lineage tracing experiments.

*Literature published using this strain should indicate: Cdh5-2A-CreERT2 mice (Cat. NO. NM-KI-200173) were purchased from Shanghai Model Organisms Center, Inc..

Validation Data

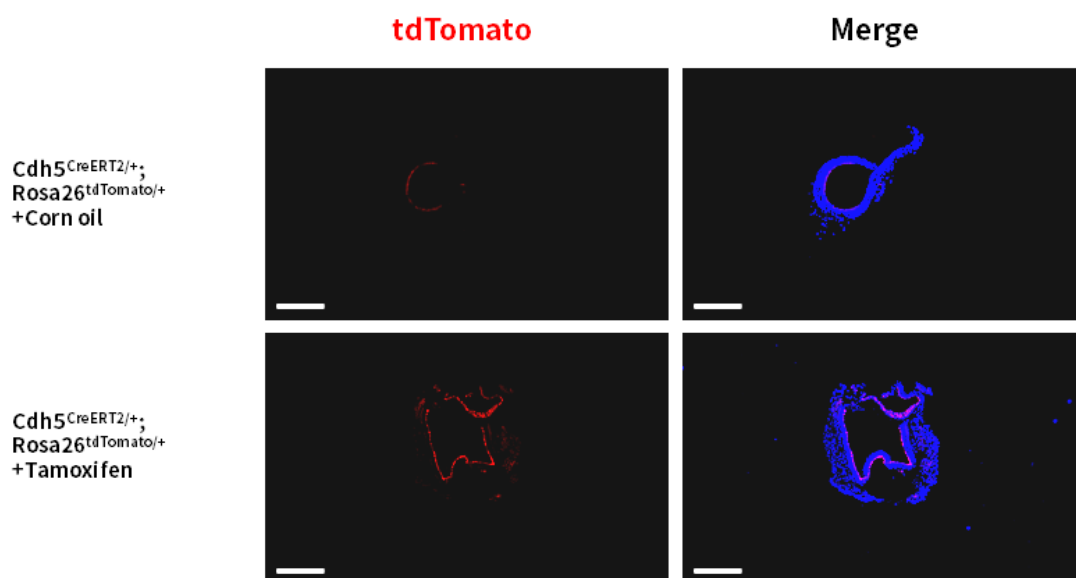


Fig. 1 CreERT2-mediated recombination in the aorta of $Cdh5^{CreERT2/+}; Rosa26^{tdTomato/+}$ mouse. TdTomato(red) expression can be detected in the arterial endothelial cells of $Cdh5^{CreERT2/+}; Rosa26^{tdTomato/+}$ mouse after tamoxifen treatment.

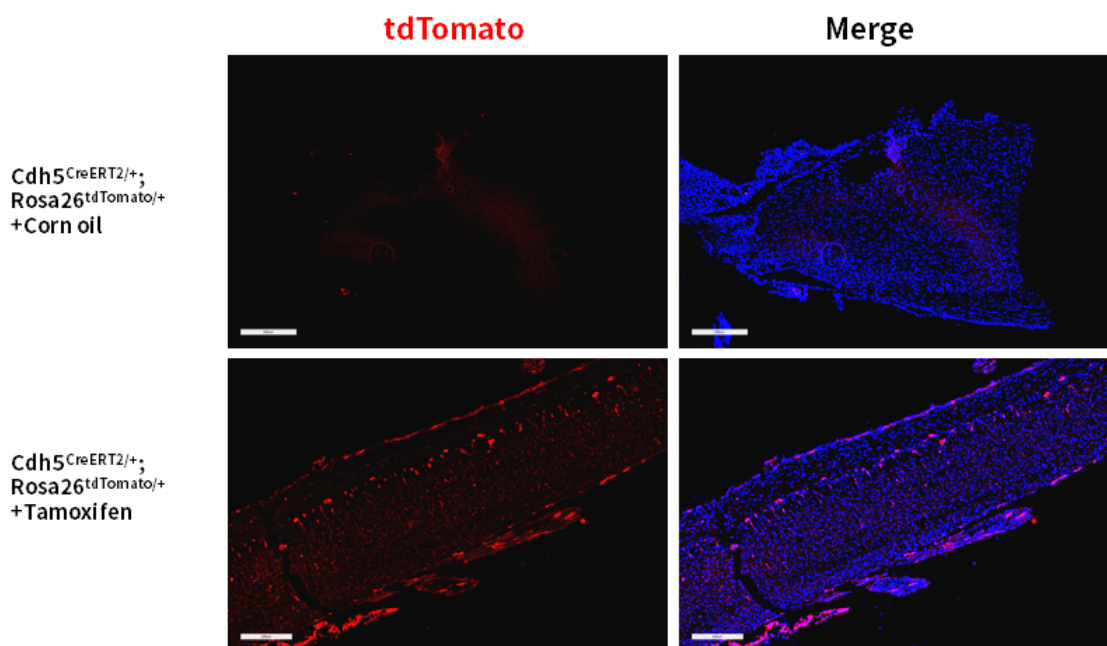


Fig. 2 CreERT2-mediated recombination in the spinal cord of $Cdh5^{CreERT2/+}; Rosa26^{tdTomato/+}$ mouse. TdTomato(red) expression can be detected in the endothelial cells derived from spinal cord of $Cdh5^{CreERT2/+}; Rosa26^{tdTomato/+}$ mouse after tamoxifen treatment.

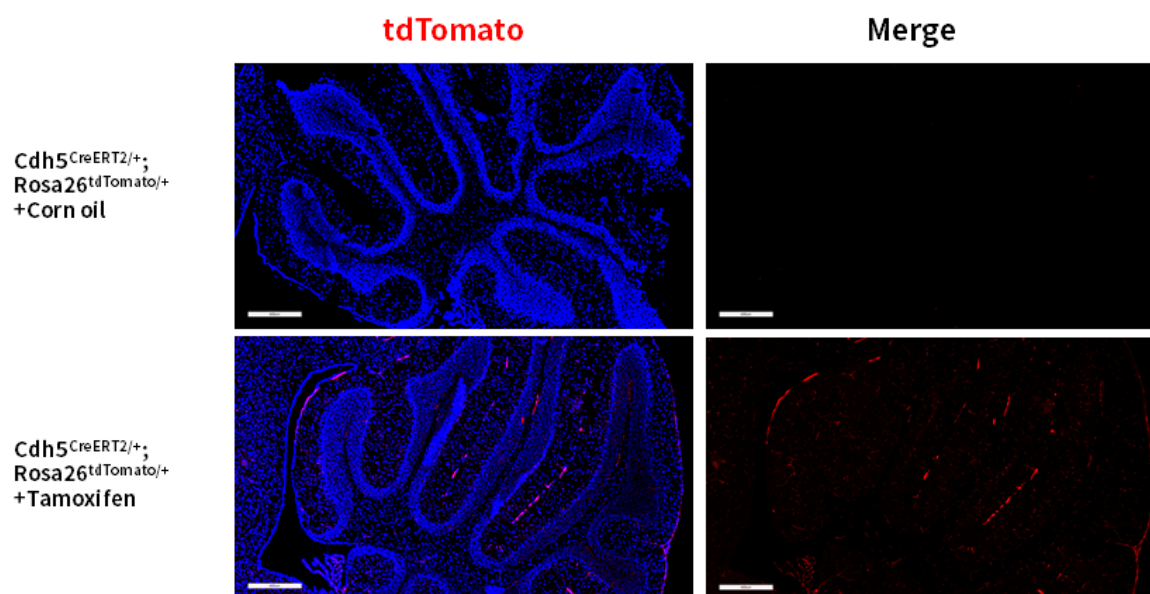


Fig. 3 CreERT2-mediated recombination in the cerebellum of $Cdh5^{CreERT2/+}; Rosa26^{tdTomato/+}$ mouse. TdTomato(red) expression can be detected in some cells of cerebellum derived from $Cdh5^{CreERT2/+}; Rosa26^{tdTomato/+}$ mouse after tamoxifen treatment.

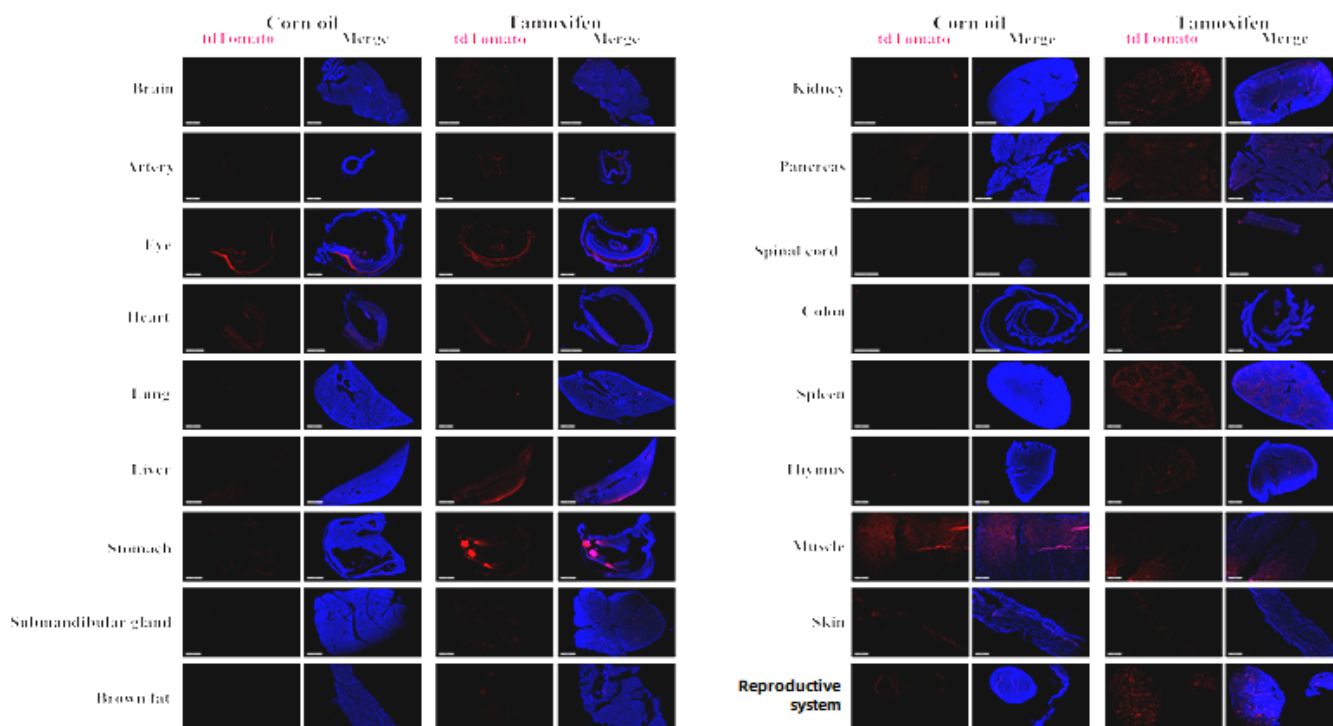


Fig. 4 Detection of tdTomato(red) in various tissues of $Cdh5^{CreERT2/+}; Rosa26^{tdTomato/+}$ mice. CreERT2 mediated recombination can be detected in the brain, pituitary gland, eyes, heart, lung, liver, submandibular gland, kidney, pancreas, testis, muscle, intestine, colon, spleen, thymus and brown fat. TdTomato expression can not be observed in the epidermis. (For more detailed information please contact our technical advisor.)

