

Tmem119-2A-CreERT2

Nomenclature	C57BL/6Smoc- <i>Tmem119</i> ^{em2(P2A-CreERT2)Smoc}
Cat. NO.	NM-KI-200234
Strain State	Repository Live

Gene Summary

Gene Symbol Tmem119	Synonyms	obif; AW208946; BC025600
	NCBI ID	231633
	MGI ID	2385228
	Ensembl ID	ENSMUSG00000054675
	Human Ortholog	TMEM119

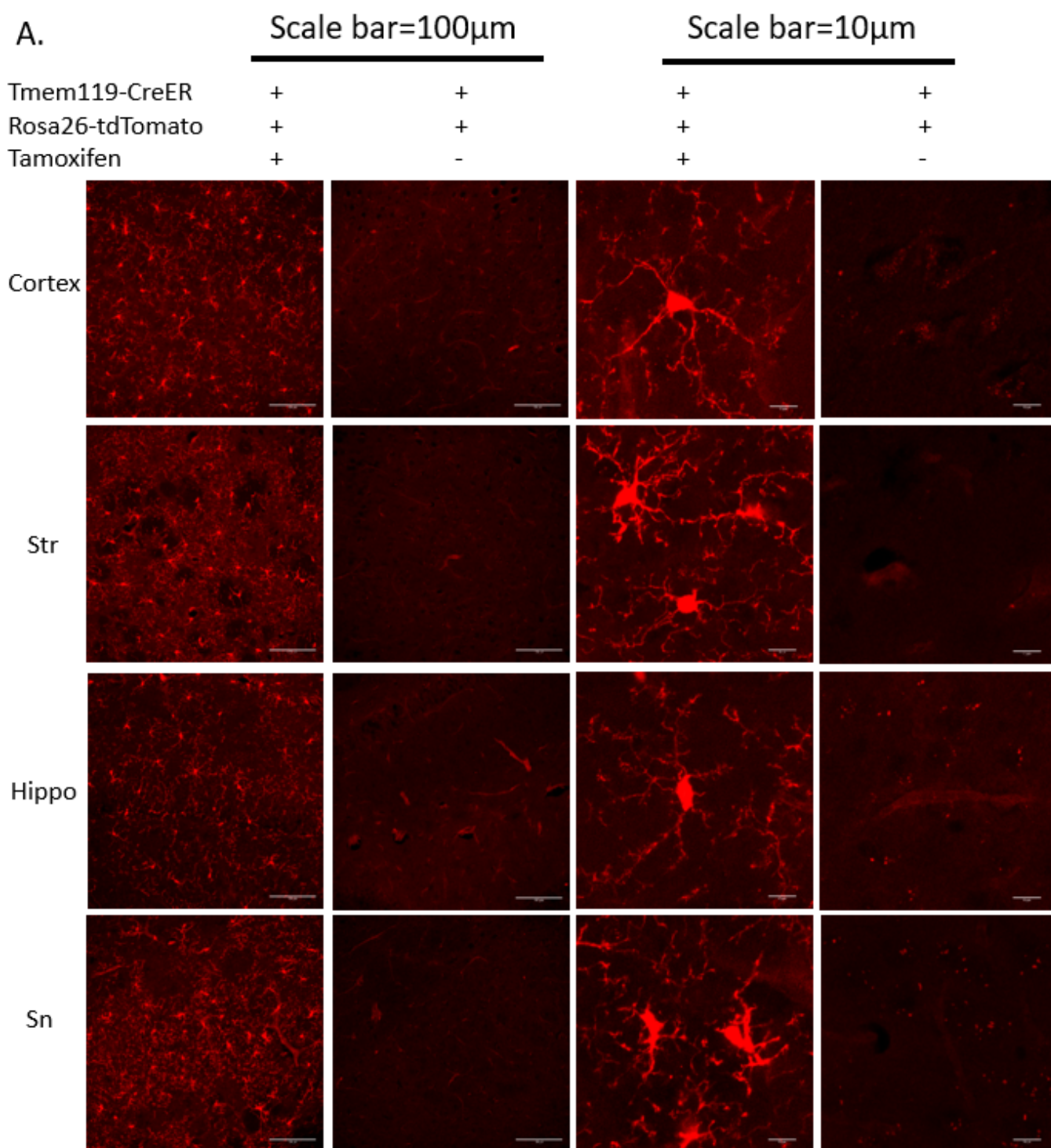
Model Description

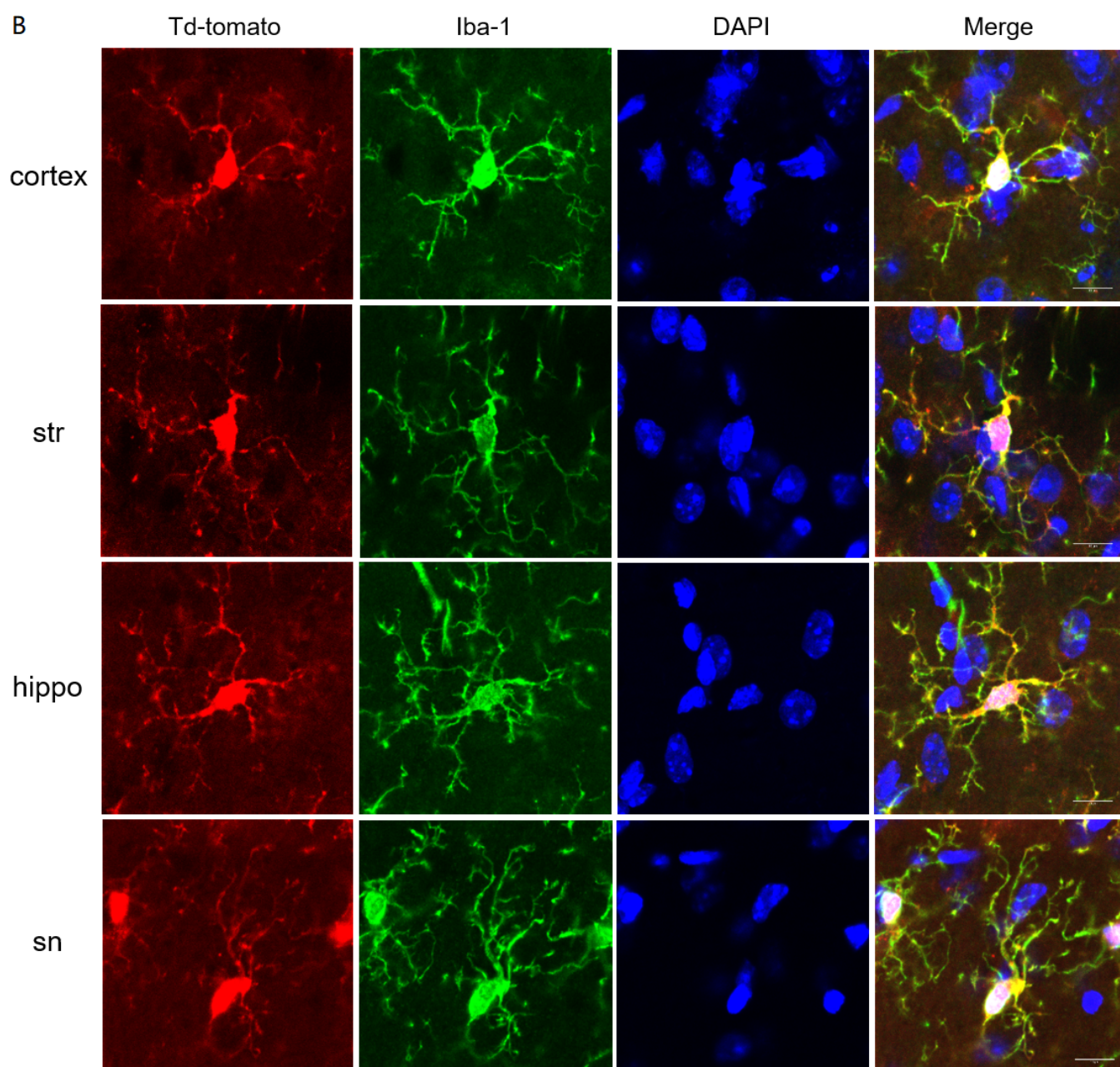
A P2A-CreERT2 expression cassette was knocked into the Tmem119 gene stop codon site.

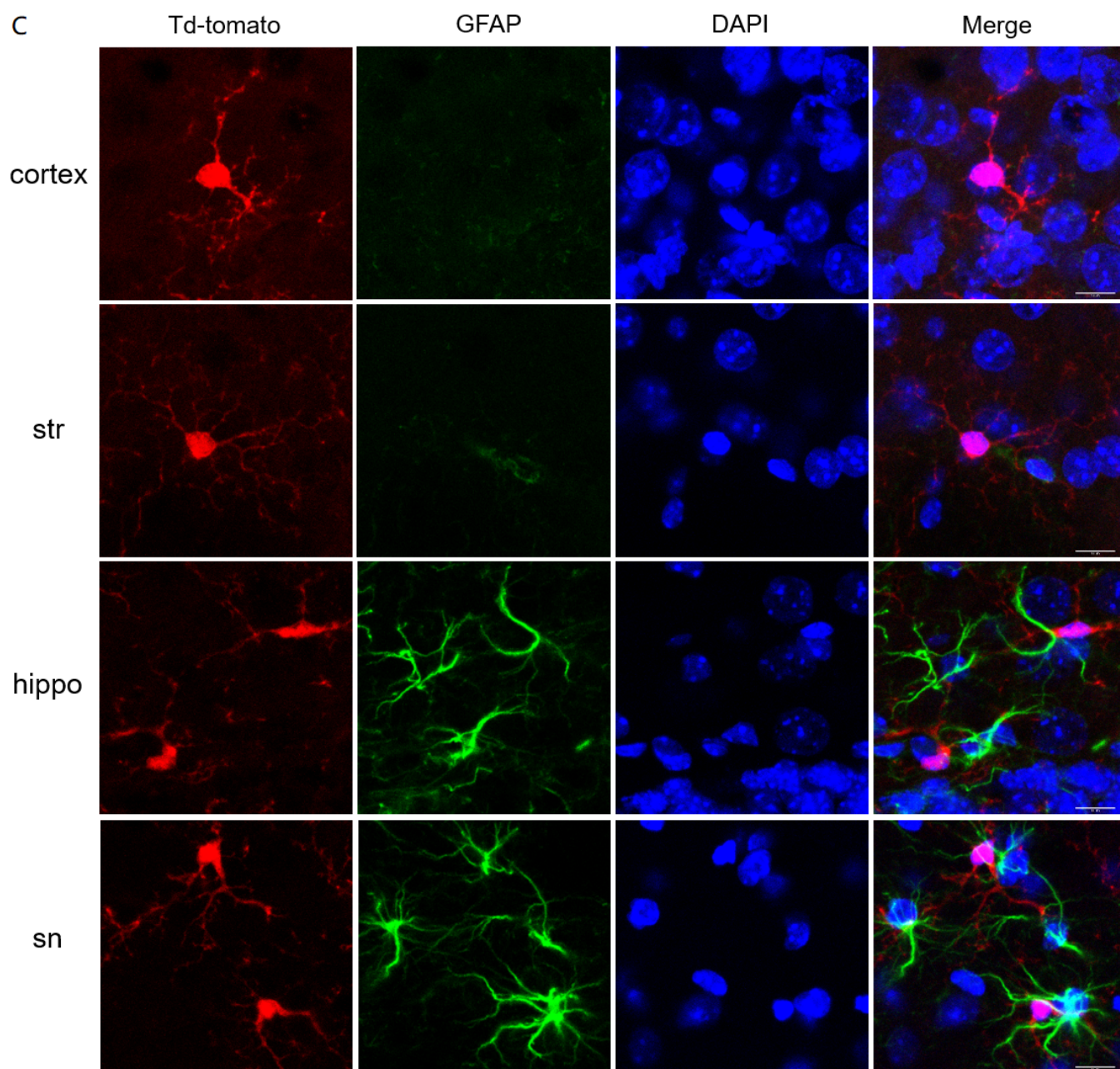
Research Application: Cre tool mice

*Literature published using this strain should indicate: Tmem119-2A-CreERT2 mice (Cat. NO. NM-KI-200234) were purchased from Shanghai Model Organisms Center, Inc..

Validation Data







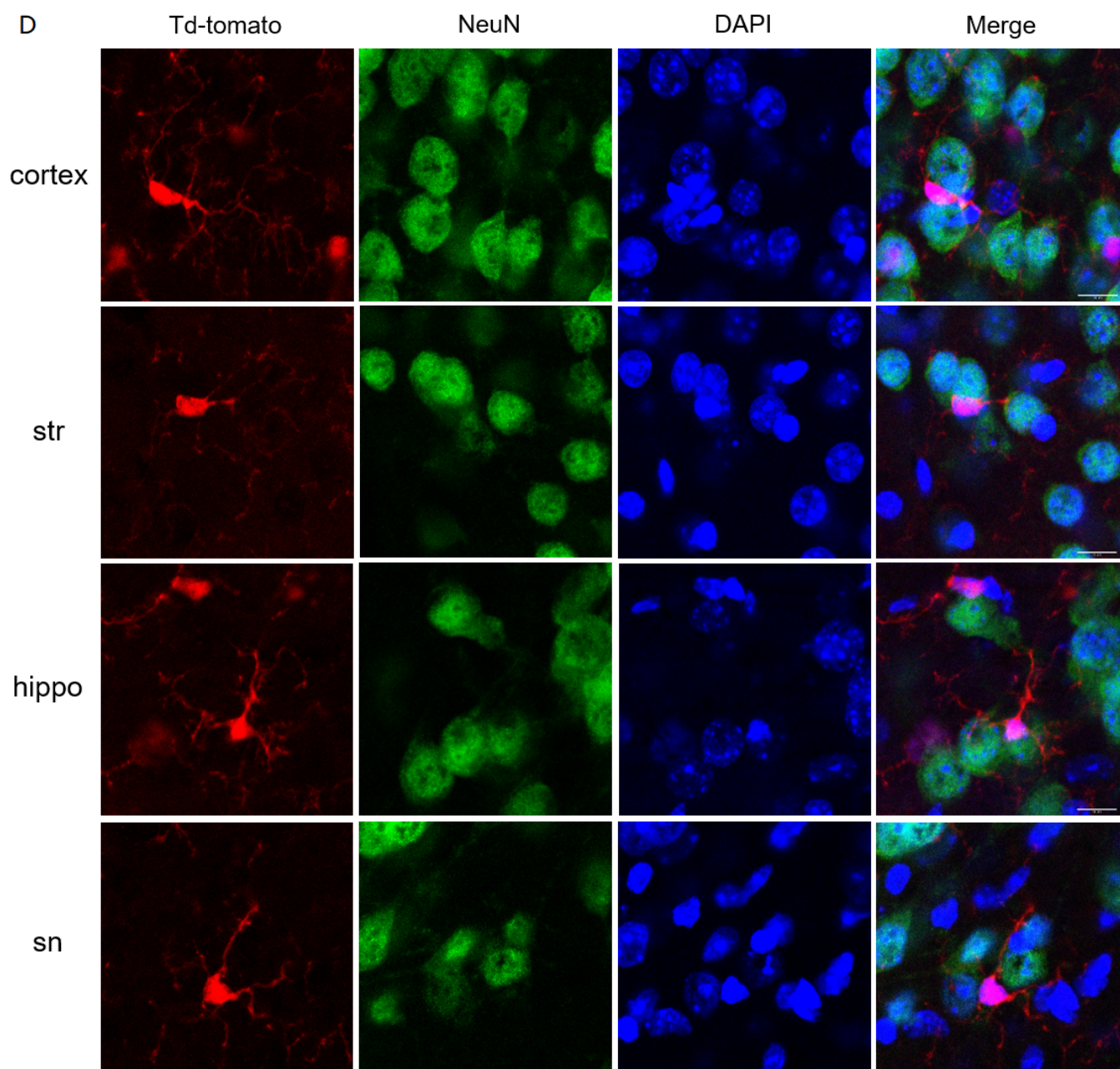


Fig1. Tmem119-CreERT2 mice effectively recombine a conditional allele in microglia.

A-B. Confocal micrograph showing tdTomato expression in IBA-positive microglia upon tamoxifen administration, Absence of tdTomato expression in untreated animals. C-D, Representative immunostaining for astrocytes (C, GFAP, green), and neurons (D, NeuN, green) in tdTomato-expressing microglia of Tmem119-CreERT2^{+/-}; Rosa26 tdTomato^{+/-} mice.

Table 1. Quantification of tdTomato labeled microglia in Tmem119-P2A-CreERT2 mice

Brain region	Completeness, % (tdTomato+Iba+/Iba+)	Fidelity, % (tdTomato+Iba+/tdTomato+)
Cortex	97.7 ± 2.3	95.5 ± 1.4
Striatum	98.9 ± 0.9	95.2 ± 0.4
Thalamus	95.6 ± 0.9	87.6 ± 6.6
Hippocampus	93.9 ± 1.9	89.7 ± 3.9

Publications

[Noncanonical contribution of microglial transcription factor NR4A1 to post-stroke recovery through TNF mRNA destabilization](#)

References: