Drd1-2A-CreERT2

Nomenclature	C57BL/6Smoc-*Drd1*$^{em1(2A\text{-}CreERT2\text{-}WPRE\text{-}pA)Smoc}$
Cat. NO.	NM-KI-18016
Strain State	Repository Live

Gene Summary

Gene Symbol **Drd1**	**Synonyms**	Drd-1; Drd1a; Gpcr15; C030036C15Rik
	NCBI ID	13488
	MGI ID	99578
	Ensembl ID	ENSMUSG00000021478
	Human Ortholog	DRD1

Model Description

A 2A-CreERT2-WPRE-pA coexpression cassette is inserted befor the stop codon of mouse Drd1 gene via homologous recombination to establish a tamoxifen inducible Drd1-CreERT2 tool stain. This strain can be used to knockout target gene in Drd1+ cells after tamoxifen treatment when crossed with mice which carry loxp sites flanking target gene.

Research Application: Cre recombinase tool

*Literature published using this strain should indicate: Drd1-2A-CreERT2 mice (Cat. NO. NM-KI-18016) were purchased from Shanghai Model Organisms Center, Inc..

Validation Data

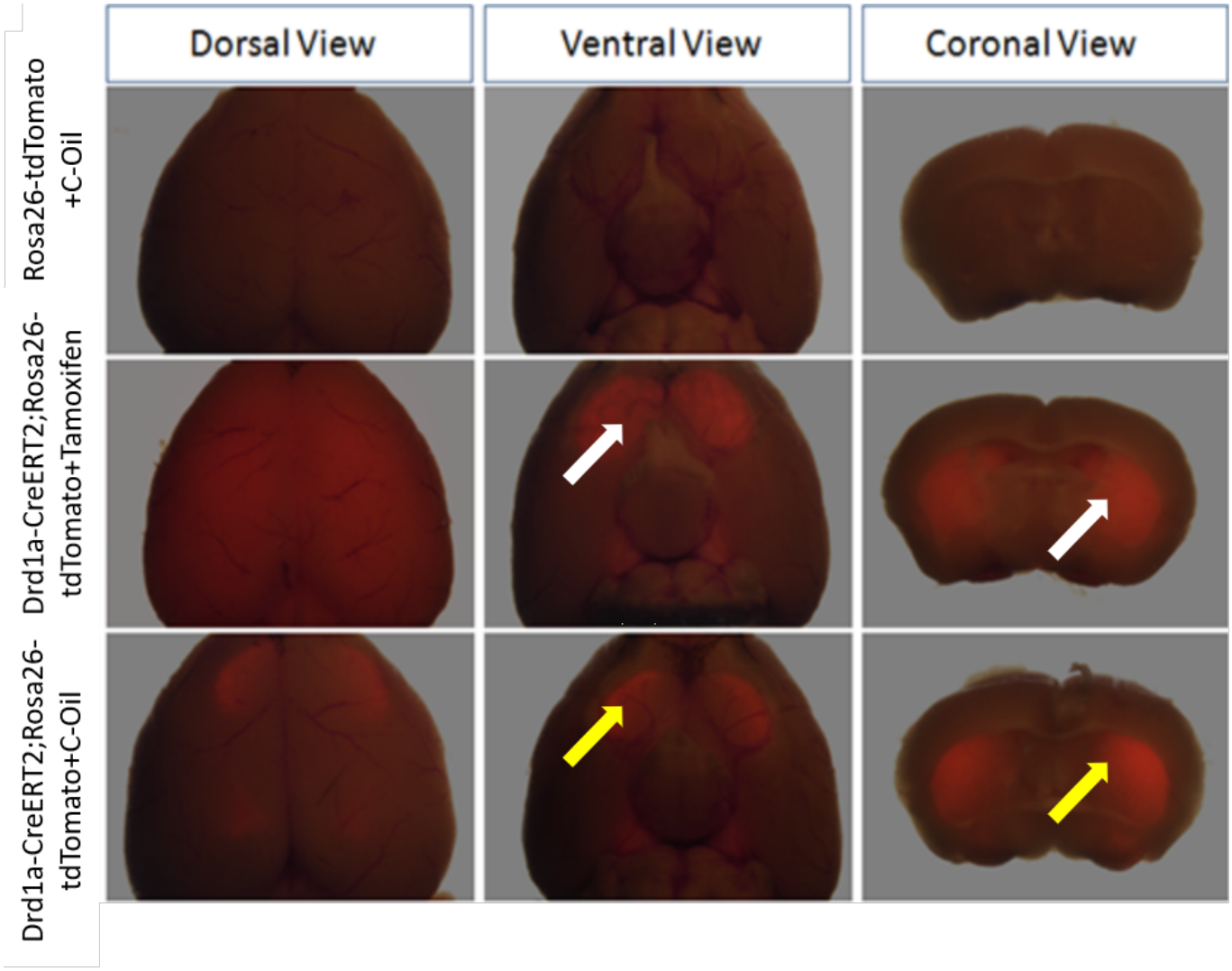

Figure 1: CreERT2-mediated recombination in brain of Drd1a CreERT2; R26 tdTomato mice. Detection of tdTomato (red) in brain of Drd1a CreERT2; R26 tdTomato mice.

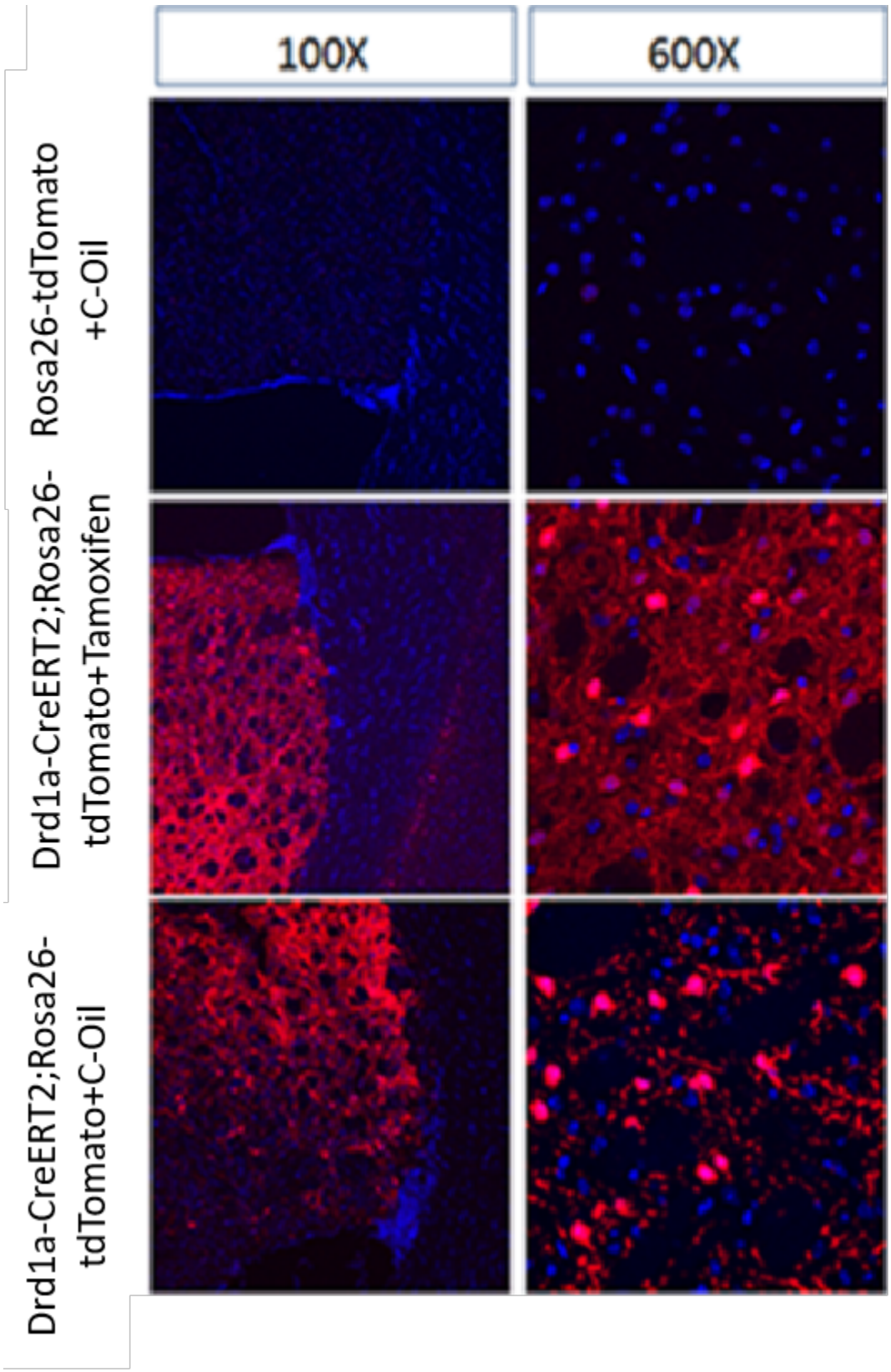

Figure 2：CreERT2-mediated recombination in CPU(corpus striatum) of Drd1a CreERT2; R26 tdTomato mice. Detection of tdTomato (red) in CPU of Drd1a CreERT2; R26 tdTomato mice.