

Drd1-Flox

Nomenclature	C57BL/6Smoc- <i>Drd1</i> ^{em1(flox)Smoc}
Cat. NO.	NM-CKO-200159
Strain State	Sperm cryopreservation

Gene Summary

Gene Symbol Drd1	Synonyms	Drd-1; Drd1a; Gpcr15; C030036C15Rik
	NCBI ID	13488
	MGI ID	99578
	Ensembl ID	ENSMUSG000000021478
	Human Ortholog	DRD1

Model Description

These mice carry loxP sites flanking exon 2 of Drd1 gene. When crossed with a Cre recombinase-expressing strain, this strain is useful in eliminating tissue-specific conditional expression of Drd1 gene.

Research Application: Research on the Signal Transduction of Monoamine GPCR and GPCR

*Literature published using this strain should indicate: Drd1-Flox mice (Cat. NO. NM-CKO-200159) were purchased from Shanghai Model Organisms Center, Inc..

Disease Connection

Huntington's Disease	Phenotype(s)	MGI:3709758 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Drd1-Flox(NM-CKO-200159) mice.
	Reference(s)	Gantois I, Fang K, Jiang L, Babovic D, Lawrence AJ, Ferreri V, Teper Y, Jupp B, Ziebell J, Morganti-Kossmann CM, O'Brien TJ, Nally R, Schutz G, Waddington J, Egan GF, Drago J, Ablation of D1 dopamine receptor-expressing cells generates mice with seizures, dystonia, hyperactivity, and impaired oral behavior. Proc Natl Acad Sci U S A. 2007 Mar 6;104(10):4182-7

Validation Data

No data