

Ar-Flox

Nomenclature	B6;129S-Ar ^{tm1(flox)Smoc}
Cat. NO.	NM-CKO-00110
Strain State	Repository Live

Gene Summary

Gene Symbol Ar	Synonyms	Tfm; AW320017
	NCBI ID	11835
	MGI ID	88064
	Ensembl ID	ENSMUSG00000046532
	Human Ortholog	AR

Model Description

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

*Literature published using this strain should indicate: Ar-Flox mice (Cat. NO. NM-CKO-00110) were purchased from Shanghai Model Organisms Center, Inc..

Disease Connection

Prostate Cancer	Phenotype(s)	MGI:5009703 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Pten-Flox(NM-CKO-18004) and Pbsn-cre mice.
	Reference(s)	Mulholland DJ, Tran LM, Li Y, Cai H, Morim A, Wang S, Plaisier S, Garraway IP, Huang J, Graeber TG, Wu H, Cell Autonomous Role of PTEN in Regulating Castration-Resistant Prostate Cancer Growth. Cancer Cell. 2011 Jun 14;19(6):792-804

Type 2 Diabetes Mellitus	Phenotype(s)	MGI:5502687 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Fabp4-cre mice.
	Reference(s)	McInnes KJ, Smith LB, Hunger NI, Saunders PT, Andrew R, Walker BR, Deletion of the androgen receptor in adipose tissue in male mice elevates retinol binding protein 4 and reveals independent effects on visceral fat mass and on glucose homeostasis. Diabetes. 2012 May;61(5):1072-81
Obesity	Phenotype(s)	MGI:2681522 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with CMV-cre mice.
	Reference(s)	Matsumoto T, Takeyama K, Sato T, Kato S, Androgen receptor functions from reverse genetic models. J Steroid Biochem Mol Biol. 2003 Jun;85(2-5):95-9

Validation Data

No data

Publications

[Reproductive Deficits Induced by Prenatal Antimüllerian Hormone Exposure Require Androgen Receptor in Kisspeptin Cells](#)

References:

[Androgens drive sexual dimorphism in liver metastasis by promoting hepatic accumulation of neutrophils](#)

References: Cell Reports