

# Ar-Flox

<b>Nomenclature</b>	B6;129S- <i>Ar</i> <sup>tm1(flox)Smoc</sup>
<b>Cat. NO.</b>	NM-CKO-00110
<b>Strain State</b>	Embryo cryopreservation

## Gene Summary

<b>Gene Symbol</b> Ar	<b>Synonyms</b>	Tfm; AW320017
	<b>NCBI ID</b>	<a href="#">11835</a>
	<b>MGI ID</b>	<a href="#">88064</a>
	<b>Ensembl ID</b>	<a href="#">ENSMUSG00000046532</a>
	<b>Human Ortholog</b>	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

<b>Prostate Cancer</b>	<b>Phenotype(s)</b>	<a href="#">MGI:5009703</a> 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.
	<b>Reference(s)</b>	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

<b>Type 2 Diabetes Mellitus</b>	<b>Phenotype(s)</b>	<a href="#">MGI:5502687</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Fabp4-cre mice.
	<b>Reference(s)</b>	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
<b>Obesity</b>	<b>Phenotype(s)</b>	<a href="#">MGI:2681522</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with CMV-cre mice.
	<b>Reference(s)</b>	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