

Resource Summary Report

Generated by [PRECISE-TBI](#) on Jul 29, 2026

Ossabaw

RRID:NSRRC_0008

Type: Organism

Proper Citation

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Organism Information

URL: <https://nsrrc.missouri.edu/StrainAvail/>

Proper Citation: RRID:NSRRC_0008

Description: Application: Background for genetic modification,obesity, diabetes, cardiovascular, Polycystic Ovarian Syndrome

Species: Sus scrofa

Notes: Application: Background for genetic modification,obesity, diabetes, cardiovascular, Polycystic Ovarian Syndrome

Genomic Alteration: wildtype

Catalog Number: 8

Background: inbred

Database: NSRRC, National Swine Resource and Research Center (NSRRC)

Database Abbreviation: NSRRC

Source References: [PMID:19434740](#)

Organism Name: Ossabaw

Record Creation Time: 20230226T235431+0000

Record Last Update: 20260725T230456+0000

Ratings and Alerts

No rating or validation information has been found for Ossabaw.

No alerts have been found for Ossabaw.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: NSRRC, National Swine Resource and Research Center (NSRRC)

Usage and Citation Metrics

We found 12 mentions in open access literature.

Listed below are recent publications. The full list is available at [PRECISE-TBI](#).

Bondareva O, et al. (2025) Single-nucleus profiling of Ossabaw pig atherosclerosis model. *iScience*, 28(10), 113464.

Tang XL, et al. (2025) A new model of heart failure with preserved ejection fraction induced by metabolic syndrome in Ossabaw miniature swine. *Basic research in cardiology*, 120(3), 559.

Goodwill AG, et al. (2021) Mineralocorticoid receptor blockade normalizes coronary resistance in obese swine independent of functional alterations in Kv channels. *Basic research in cardiology*, 116(1), 35.

Olver TD, et al. (2019) Western Diet-Fed, Aortic-Banded Ossabaw Swine: A Preclinical Model of Cardio-Metabolic Heart Failure. *JACC. Basic to translational science*, 4(3), 404.

Mordhorst BR, et al. (2019) Improvement of in vitro and early in utero porcine clone development after somatic donor cells are cultured under hypoxia. *Molecular reproduction and development*, 86(5), 558.

Lim RR, et al. (2018) Young Ossabaw Pigs Fed a Western Diet Exhibit Early Signs of Diabetic Retinopathy. *Investigative ophthalmology & visual science*, 59(6), 2325.

Olver TD, et al. (2018) Microvascular insulin resistance in skeletal muscle and brain occurs early in the development of juvenile obesity in pigs. *American journal of physiology. Regulatory, integrative and comparative physiology*, 314(2), R252.

Newell-Fugate AE, et al. (2017) Effects of coconut oil on glycemia, inflammation, and urogenital microbial parameters in female Ossabaw mini-pigs. *PloS one*, 12(7), e0179542.

Chen X, et al. (2016) Novel Roles for Kv7 Channels in Shaping Histamine-Induced Contractions and Bradykinin-Dependent Relaxations in Pig Coronary Arteries. *PloS one*, 11(2), e0148569.

Vieira-Potter VJ, et al. (2015) Disconnect between adipose tissue inflammation and cardiometabolic dysfunction in Ossabaw pigs. *Obesity (Silver Spring, Md.)*, 23(12), 2421.

Pillai AK, et al. (2015) Comparative Evaluation of Two Venous Sampling Techniques for the Assessment of Pancreatic Insulin and Zinc Release upon Glucose Challenge. *Journal*

of diabetes research, 2015, 789359.

Heegaard PM, et al. (2013) Pig α_1 -acid glycoprotein: characterization and first description in any species as a negative acute phase protein. PLoS one, 8(7), e68110.