

Resource Summary Report

Generated by [RRID](#) on Jul 30, 2026

B6;129S4-Ppara^{tm1Gonz/J}

RRID:IMSR_JAX:008154

Type: Organism

Proper Citation

RRID:IMSR_JAX:008154

Organism Information

URL: <https://www.jax.org/strain/008154>

Proper Citation: RRID:IMSR_JAX:008154

Description: Mus musculus with name B6;129S4-Ppara^{tm1Gonz/J} from IMSR.

Species: Mus musculus

Synonyms: B6.129S4-Ppara/J

Notes: gene symbol note: peroxisome proliferator activated receptor alpha; mutant stock: Ppara

Affected Gene: peroxisome proliferator activated receptor alpha

Genomic Alteration: targeted mutation 1; Frank J Gonzalez

Catalog Number: JAX:008154

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6;129S4-Ppara^{tm1Gonz/J}

Record Creation Time: 20250513T053706+0000

Record Last Update: 20260725T044418+0000

Ratings and Alerts

No rating or validation information has been found for B6;129S4-Ppara^{tm1Gonz/J}.

No alerts have been found for B6;129S4-Ppara^{tm1Gonz/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 18 mentions in open access literature.

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

Jaschke NP, et al. (2025) Gut-to-brain signaling restricts dietary protein intake during recovery from catabolic states. *Cell*, 188(26), 7481.

Jana M, et al. (2024) Muscle-building supplement β -hydroxy β -methylbutyrate stimulates the maturation of oligodendroglial progenitor cells to oligodendrocytes. *Journal of neurochemistry*.

Landowski M, et al. (2023) Transmembrane protein 135 regulates lipid homeostasis through its role in peroxisomal DHA metabolism. *Communications biology*, 6(1), 8.

Chen X, et al. (2023) Under peroxisome proliferation acyl-CoA oxidase coordinates with catalase to enhance ethanol metabolism. *Free radical biology & medicine*, 208, 221.

Masschelin PM, et al. (2023) Vitamin B2 enables regulation of fasting glucose availability. *eLife*, 12.

Kikuchi H, et al. (2023) Signaling mechanisms in renal compensatory hypertrophy revealed by multi-omics. *Nature communications*, 14(1), 3481.

Pergialiotis V, et al. (2022) Angiogenic and Inflammatory Alterations of Endometriotic Lesions in a Transgenic Animal Experimental Model With Loss of Expression of PPAR-Alpha Receptors. *Cureus*, 14(10), e30290.

Rupérez C, et al. (2021) Meteorin-like/Meteorin- β protects heart against cardiac dysfunction. *The Journal of experimental medicine*, 218(5).

Manieri E, et al. (2020) JNK-mediated disruption of bile acid homeostasis promotes intrahepatic cholangiocarcinoma. *Proceedings of the National Academy of Sciences of the United States of America*, 117(28), 16492.

Shen Y, et al. (2020) Shared PPAR α / γ Target Genes Regulate Brown Adipocyte Thermogenic Function. *Cell reports*, 30(9), 3079.

Chandra S, et al. (2019) Gemfibrozil, a Lipid-Lowering Drug, Lowers Amyloid Plaque Pathology and Enhances Memory in a Mouse Model of Alzheimer's Disease via Peroxisome Proliferator-Activated Receptor γ . *Journal of Alzheimer's disease reports*, 3(1), 149.

Ruppert PMM, et al. (2019) Transcriptional profiling of PPAR α -/- and CREB3L3/- livers reveals disparate regulation of hepatoproliferative and metabolic functions of PPAR α . BMC genomics, 20(1), 199.

Hsiao WT, et al. (2019) Deficiency or activation of peroxisome proliferator-activated receptor α reduces the tissue concentrations of endogenously synthesized docosahexaenoic acid in C57BL/6J mice. Nutrition research and practice, 13(4), 286.

Koo SJ, et al. (2018) Pentose Phosphate Shunt Modulates Reactive Oxygen Species and Nitric Oxide Production Controlling Trypanosoma cruzi in Macrophages. Frontiers in immunology, 9, 202.

Yuan X, et al. (2018) Epigenetic modulation of Fgf21 in the perinatal mouse liver ameliorates diet-induced obesity in adulthood. Nature communications, 9(1), 636.

Guan D, et al. (2018) Diet-Induced Circadian Enhancer Remodeling Synchronizes Opposing Hepatic Lipid Metabolic Processes. Cell, 174(4), 831.

Quesada-López T, et al. (2016) The lipid sensor GPR120 promotes brown fat activation and FGF21 release from adipocytes. Nature communications, 7, 13479.

Park JG, et al. (2016) CREBH-FGF21 axis improves hepatic steatosis by suppressing adipose tissue lipolysis. Scientific reports, 6, 27938.