

# Resource Summary Report

Generated by Kravitz on Sep 19, 2026

## STOCK Lrp1<sup>tm2.1Her</sup>/J

RRID:IMSR\_JAX:012604

Type: Organism

### Proper Citation

RRID:IMSR\_JAX:012604

### Organism Information

**URL:** <https://www.jax.org/strain/012604>

**Proper Citation:** RRID:IMSR\_JAX:012604

**Description:** Mus musculus with name STOCK Lrp1<sup>tm2.1Her</sup>/J from IMSR.

**Species:** Mus musculus

**Synonyms:** B6;129S7-Lrp1/J

**Notes:** gene symbol note: low density lipoprotein receptor-related protein 1; mutant stock: Lrp1

**Affected Gene:** low density lipoprotein receptor-related protein 1

**Genomic Alteration:** targeted mutation 2.1; Joachim Herz

**Catalog Number:** JAX:012604

**Database:** JAX Mice and Services

**Database Abbreviation:** JAX

**Availability:** sperm

**Organism Name:** STOCK Lrp1<sup>tm2.1Her</sup>/J

**Record Creation Time:** 20250513T053721+0000

**Record Last Update:** 20260919T054909+0000

### Ratings and Alerts

No rating or validation information has been found for STOCK Lrp1<sup>tm2.1Her</sup>/J.

No alerts have been found for STOCK Lrp1<sup>tm2.1Her/J</sup>.

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## Data and Source Information

**Source:** [Integrated Animals](#)

**Source Database:** JAX Mice and Services

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## Usage and Citation Metrics

We found 8 mentions in open access literature.

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

Hwang SM, et al. (2025) The LRP1-SHP2 pathway regulates TRPV1 sensitivity in the peripheral nervous system: Insights from amyloid beta 1-42 modulation. Journal of advanced research.

Tang Z, et al. (2021) Inflammatory macrophages exploit unconventional pro-phagocytic integrins for phagocytosis and anti-tumor immunity. Cell reports, 37(11), 110111.

Benitez-Amaro A, et al. (2020) Low-density lipoprotein receptor-related protein 1 deficiency in cardiomyocytes reduces susceptibility to insulin resistance and obesity. Metabolism: clinical and experimental, 106, 154191.

Fernández-Castañeda A, et al. (2020) The active contribution of OPCs to neuroinflammation is mediated by LRP1. Acta neuropathologica, 139(2), 365.

Auderset L, et al. (2020) Low-Density Lipoprotein Receptor-Related Protein 1 (LRP1) Is a Negative Regulator of Oligodendrocyte Progenitor Cell Differentiation in the Adult Mouse Brain. Frontiers in cell and developmental biology, 8, 564351.

Romeo R, et al. (2020) Deletion of LRP1 From Astrocytes Modifies Neuronal Network Activity in an in vitro Model of the Tripartite Synapse. Frontiers in cellular neuroscience, 14, 567253.

Schäfer I, et al. (2019) Conditional Deletion of LRP1 Leads to Progressive Loss of Recombined NG2-Expressing Oligodendrocyte Precursor Cells in a Novel Mouse Model. Cells, 8(12).

Lin JP, et al. (2017) LRP1 regulates peroxisome biogenesis and cholesterol homeostasis in oligodendrocytes and is required for proper CNS myelin development and repair. eLife, 6.