

# Resource Summary Report

Generated by [nidm-terms](#) on Aug 9, 2026

## STOCK Pitx3<sup>ak</sup>/2J

RRID:IMSR\_JAX:000942

Type: Organism

### Proper Citation

RRID:IMSR\_JAX:000942

### Organism Information

**URL:** <https://www.jax.org/strain/000942>

**Proper Citation:** RRID:IMSR\_JAX:000942

**Description:** Mus musculus with name STOCK Pitx3<sup>ak</sup>/2J from IMSR.

**Species:** Mus musculus

**Synonyms:** B6 x C57BLKS-Pitx3/J

**Notes:** gene symbol note: paired-like homeodomain transcription factor 3; mutant strain: Pitx3

**Affected Gene:** paired-like homeodomain transcription factor 3

**Genomic Alteration:** aphakia

**Catalog Number:** JAX:000942

**Database:** JAX Mice and Services

**Database Abbreviation:** JAX

**Availability:** embryo

**Organism Name:** STOCK Pitx3<sup>ak</sup>/2J

**Record Creation Time:** 20250513T053622+0000

**Record Last Update:** 20260808T050824+0000

### Ratings and Alerts

No rating or validation information has been found for STOCK Pitx3<sup>ak</sup>/2J.

No alerts have been found for STOCK Pitx3<sup>ak/2J</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 6 mentions in open access literature.

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

Ayon-Olivas M, et al. (2023) Dopaminergic Input Regulates the Sensitivity of Indirect Pathway Striatal Spiny Neurons to Brain-Derived Neurotrophic Factor. *Biology*, 12(10).

Fernández-Pérez A, et al. (2022) Restricting feeding to dark phase fails to entrain circadian activity and energy expenditure oscillations in Pitx3-mutant Aphakia mice. *Cell reports*, 38(2), 110241.

Zenchak JR, et al. (2020) Bioluminescence-driven optogenetic activation of transplanted neural precursor cells improves motor deficits in a Parkinson's disease mouse model. *Journal of neuroscience research*, 98(3), 458.

Pan J, et al. (2019) ALDH1A1 regulates postsynaptic  $\mu$ -opioid receptor expression in dorsal striatal projection neurons and mitigates dyskinesia through transsynaptic retinoic acid signaling. *Scientific reports*, 9(1), 3602.

Del Río-Martín A, et al. (2019) Hypomorphic Expression of Pitx3 Disrupts Circadian Clocks and Prevents Metabolic Entrainment of Energy Expenditure. *Cell reports*, 29(11), 3678.

Lieberman OJ, et al. (2018) Dopamine Triggers the Maturation of Striatal Spiny Projection Neuron Excitability during a Critical Period. *Neuron*, 99(3), 540.