

# Resource Summary Report

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

## STOCK Epas1<sup>tm1Mcs</sup>/J

RRID:IMSR\_JAX:008407

Type: Organism

### Proper Citation

RRID:IMSR\_JAX:008407

### Organism Information

**URL:** <https://www.jax.org/strain/008407>

**Proper Citation:** RRID:IMSR\_JAX:008407

**Description:** Mus musculus with name STOCK Epas1<sup>tm1Mcs</sup>/J from IMSR.

**Species:** Mus musculus

**Notes:** gene symbol note: endothelial PAS domain protein 1; mutant stock: Epas1

**Affected Gene:** endothelial PAS domain protein 1

**Genomic Alteration:** targeted mutation 1; M Celeste Simon

**Catalog Number:** JAX:008407

**Database:** JAX Mice and Services

**Database Abbreviation:** JAX

**Availability:** sperm

**Organism Name:** STOCK Epas1<sup>tm1Mcs</sup>/J

**Record Creation Time:** 20250513T053708+0000

**Record Last Update:** 20260725T044420+0000

### Ratings and Alerts

No rating or validation information has been found for STOCK Epas1<sup>tm1Mcs</sup>/J.

No alerts have been found for STOCK Epas1<sup>tm1Mcs</sup>/J.

---

## Data and Source Information

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

**Source Database:** JAX Mice and Services

---

## Usage and Citation Metrics

We found 14 mentions in open access literature.

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

Wu Z, et al. (2025) Control of Inflammatory Response by Tissue Microenvironment. bioRxiv : the preprint server for biology.

Ruan W, et al. (2024) The BMAL1/HIF2A heterodimer modulates circadian variations of myocardial injury. Research square.

Ye J, et al. (2023) Hepatocyte-specific knockout of HIF-2 $\alpha$  cannot alleviate carbon tetrachloride-induced liver fibrosis in mice. PeerJ, 11, e15191.

Wu W, et al. (2022) Hypoxia-Induced Scleral HIF-2 $\alpha$  Upregulation Contributes to Rises in MMP-2 Expression and Myopia Development in Mice. Investigative ophthalmology & visual science, 63(8), 2.

Garcia Garcia CJ, et al. (2022) Stromal HIF2 Regulates Immune Suppression in the Pancreatic Cancer Microenvironment. Gastroenterology, 162(7), 2018.

Ajouaou Y, et al. (2022) The oxygen sensor prolyl hydroxylase domain 2 regulates the in vivo suppressive capacity of regulatory T cells. eLife, 11.

Perelli RM, et al. (2021) Environmental oxygen regulates astrocyte proliferation to guide angiogenesis during retinal development. Development (Cambridge, England), 148(9).

Chen Y, et al. (2021) Aging Reprograms the Hematopoietic-Vascular Niche to Impede Regeneration and Promote Fibrosis. Cell metabolism, 33(2), 395.

Zhang S, et al. (2021) HIF $\alpha$  Regulates Developmental Myelination Independent of Autocrine Wnt Signaling. The Journal of neuroscience : the official journal of the Society for Neuroscience, 41(2), 251.

Zhang S, et al. (2020) Glial type specific regulation of CNS angiogenesis by HIF $\alpha$ -activated different signaling pathways. Nature communications, 11(1), 2027.

Luo L, et al. (2020) Optimizing Nervous System-Specific Gene Targeting with Cre Driver Lines: Prevalence of Germline Recombination and Influencing Factors. Neuron, 106(1), 37.

Yao Q, et al. (2019) Suppressing Mitochondrial Respiration Is Critical for Hypoxia Tolerance in the Fetal Growth Plate. Developmental cell, 49(5), 748.

Leiton CV, et al. (2018) Astrocyte HIF-2 $\alpha$  supports learning in a passive avoidance paradigm under hypoxic stress. *Hypoxia* (Auckland, N.Z.), 6, 35.

Torres-Capelli M, et al. (2016) Role Of Hif2 $\alpha$  Oxygen Sensing Pathway In Bronchial Epithelial Club Cell Proliferation. *Scientific reports*, 6, 25357.