

Resource Summary Report

Generated by [ASWG](#) on Aug 28, 2026

STOCK Epas1^{tm1Mcs}/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^{tm1Mcs}/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^{tm1Mcs}/J

Record Creation Time: 20250513T053708+0000

Record Last Update: 20260815T050627+0000

Ratings and Alerts

No rating or validation information has been found for STOCK Epas1^{tm1Mcs}/J.

No alerts have been found for STOCK Epas1^{tm1Mcs}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 16 mentions in open access literature.

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

Yang Z, et al. (2026) GLP-1 regulates osteo-adipogenic fate of BMSCs via HIF-2-AKT signaling and supports trabecular bone in glucocorticoid-induced osteoporosis. Stem cell reports, 103008.

Lu IL, et al. (2026) Hypoxia-inducible factor signaling regulates embryonic interneuron development, GRIN2B expression and adult cortical function. Developmental cell, 61(4), 773.

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? cannot alleviate carbon tetrachloride-induced liver fibrosis in mice. PeerJ, 11, e15191.

Wu W, et al. (2022) Hypoxia-Induced Scleral HIF-2? 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? 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?-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 α 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 α Oxygen Sensing Pathway In Bronchial Epithelial Club Cell Proliferation. *Scientific reports*, 6, 25357.