

Resource Summary Report

Generated by [NIF](#) on Sep 11, 2026

HA-HIF1alpha P402A/P564A-pBabe-puro

RRID:Addgene_19005

Type: Plasmid

Proper Citation

RRID:Addgene_19005

Plasmid Information

URL: <http://www.addgene.org/19005>

Proper Citation: RRID:Addgene_19005

Insert Name: Hypoxia inducible factor 1 alpha

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:17220275](#)

Vector Backbone Description: Backbone Size:5188; Vector Backbone:pBabe-puro; Vector Types:Mammalian Expression, Retroviral; Bacterial Resistance:Ampicillin

Plasmid Name: HA-HIF1alpha P402A/P564A-pBabe-puro

Relevant Mutation: cDNA changed amino acids: Proline 402 to Alanine Proline 564 to Alanine

Record Creation Time: 20220422T222043+0000

Record Last Update: 20260905T075332+0000

Ratings and Alerts

No rating or validation information has been found for HA-HIF1alpha P402A/P564A-pBabe-puro.

No alerts have been found for HA-HIF1alpha P402A/P564A-pBabe-puro.

Data and Source Information

Usage and Citation Metrics

We found 23 mentions in open access literature.

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

Avinery L, et al. (2026) Hypoxic conditions confer chemoresistance to crizotinib but not to imatinib in chronic myeloid leukemia cells. Hematology, transfusion and cell therapy, 48(2), 106240.

Kakani P, et al. (2024) Hypoxia-induced CTCF promotes EMT in breast cancer. Cell reports, 43(7), 114367.

Masgras I, et al. (2022) Tumor growth of neurofibromin-deficient cells is driven by decreased respiration and hampered by NAD⁺ and SIRT3. Cell death and differentiation, 29(10), 1996.

Gao G, et al. (2021) Sodium vitamin C transporter 2 orchestrates lactate metabolism in mouse Sertoli cells. Journal of molecular endocrinology, 66(2), 157.

Dizin E, et al. (2021) Activation of the Hypoxia-Inducible Factor Pathway Inhibits Epithelial Sodium Channel-Mediated Sodium Transport in Collecting Duct Principal Cells. Journal of the American Society of Nephrology : JASN, 32(12), 3130.

Zhang S, et al. (2020) MicroRNA-574-5p in gastric cancer cells promotes angiogenesis by targeting protein tyrosine phosphatase non-receptor type 3 (PTPN3). Gene, 733, 144383.

Shao S, et al. (2020) Metformin suppresses HIF-1 α expression in cancer-associated fibroblasts to prevent tumor-stromal cross talk in breast cancer. FASEB journal : official publication of the Federation of American Societies for Experimental Biology, 34(8), 10860.

Wang M, et al. (2020) Hydrogen sulfide modulates epithelial-mesenchymal transition and angiogenesis in non-small cell lung cancer via HIF-1 α activation. Biochemical pharmacology, 172, 113775.

Liu M, et al. (2019) Sox17 is required for endothelial regeneration following inflammation-induced vascular injury. Nature communications, 10(1), 2126.

Kuang Y, et al. (2018) Oxaloacetate induces apoptosis in HepG2 cells via inhibition of glycolysis. Cancer medicine, 7(4), 1416.

Voss DM, et al. (2017) Disruption of the monocarboxylate transporter-4-basigin interaction inhibits the hypoxic response, proliferation, and tumor progression. Scientific reports, 7(1), 4292.

Tosatto A, et al. (2016) The mitochondrial calcium uniporter regulates breast cancer progression via HIF-1 α . EMBO molecular medicine, 8(5), 569.

Sperber H, et al. (2015) The metabolome regulates the epigenetic landscape during naive-to-primed human embryonic stem cell transition. *Nature cell biology*, 17(12), 1523.

Mathieu J, et al. (2014) Hypoxia-inducible factors have distinct and stage-specific roles during reprogramming of human cells to pluripotency. *Cell stem cell*, 14(5), 592.

Vindrieux D, et al. (2014) Repression of PLA2R1 by c-MYC and HIF-2alpha promotes cancer growth. *Oncotarget*, 5(4), 1004.

Onnis B, et al. (2013) Autocrine production of IL-11 mediates tumorigenicity in hypoxic cancer cells. *The Journal of clinical investigation*, 123(4), 1615.

Gomes AP, et al. (2013) Declining NAD(+) induces a pseudohypoxic state disrupting nuclear-mitochondrial communication during aging. *Cell*, 155(7), 1624.

Mak P, et al. (2013) Estrogen receptor α sustains epithelial differentiation by regulating prolyl hydroxylase 2 transcription. *Proceedings of the National Academy of Sciences of the United States of America*, 110(12), 4708.

Zhou W, et al. (2012) HIF1 α induced switch from bivalent to exclusively glycolytic metabolism during ESC-to-EpiSC/hESC transition. *The EMBO journal*, 31(9), 2103.

Gardner S, et al. (2012) Defining Akt actions in muscle differentiation. *American journal of physiology. Cell physiology*, 303(12), C1292.