

Resource Summary Report

Generated by [RRID](#) on Aug 27, 2026

pSIH1-puro-STAT3 shRNA

RRID:Addgene_26596

Type: Plasmid

Proper Citation

RRID:Addgene_26596

Plasmid Information

URL: <http://www.addgene.org/26596>

Proper Citation: RRID:Addgene_26596

Insert Name: STAT3 shRNA

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:20197401](#)

Vector Backbone Description: Backbone Marker: System Biosciences; Backbone Size: 7200; Vector Backbone: pSIH1-H1-puro; Vector Types: Lentiviral, RNAi; Bacterial Resistance: Ampicillin

Comments: STAT3 shRNA sequence:
gatccGCATCTGCCTAGATCGGCTATTCAAGAGATAGCCGATCTAGGCAGATGTTTTTTg

Plasmid Name: pSIH1-puro-STAT3 shRNA

Record Creation Time: 20220422T222119+0000

Record Last Update: 20260815T081254+0000

Ratings and Alerts

No rating or validation information has been found for pSIH1-puro-STAT3 shRNA.

No alerts have been found for pSIH1-puro-STAT3 shRNA.

Data and Source Information

Usage and Citation Metrics

We found 16 mentions in open access literature.

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

Miro C, et al. (2025) Leptin enhances the intracellular thyroid hormone activation in skeletal muscle to boost energy balance. *Cell metabolism*, 37(4), 936.

Yanagimura N, et al. (2022) STAT3 inhibition suppresses adaptive survival of ALK-rearranged lung cancer cells through transcriptional modulation of apoptosis. *NPJ precision oncology*, 6(1), 11.

Wright G, et al. (2021) Activated STAT3 Is a Novel Regulator of the XRCC1 Promoter and Selectively Increases XRCC1 Protein Levels in Triple Negative Breast Cancer. *International journal of molecular sciences*, 22(11).

Ranjan A, et al. (2020) Pimozide Suppresses the Growth of Brain Tumors by Targeting STAT3-Mediated Autophagy. *Cells*, 9(9).

Dutta P, et al. (2020) Unphosphorylated STAT3 in heterochromatin formation and tumor suppression in lung cancer. *BMC cancer*, 20(1), 145.

Lim RZL, et al. (2018) STAT-3 regulation of CXCR4 is necessary for the prenylflavonoid Icaritin to enhance mesenchymal stem cell proliferation, migration and osteogenic differentiation. *Biochimica et biophysica acta. General subjects*, 1862(7), 1680.

Yi L, et al. (2018) A Synthetic Disaccharide Derivative of Diphyllin, TAARD, Activates Human Natural Killer Cells to Secrete Interferon-Gamma via Toll-Like Receptor-Mediated NF- κ B and STAT3 Signaling Pathways. *Frontiers in immunology*, 9, 1509.

Lim R, et al. (2017) The prenylflavonoid Icaritin enhances osteoblast proliferation and function by signal transducer and activator of transcription factor 3 (STAT-3) regulation of C-X-C chemokine receptor type 4 (CXCR4) expression. *Bone*, 105, 122.

Teng Y, et al. (2016) WASF3 provides the conduit to facilitate invasion and metastasis in breast cancer cells through HER2/HER3 signaling. *Oncogene*, 35(35), 4633.

Huang T, et al. (2016) A regulatory circuit of miR-125b/miR-20b and Wnt signalling controls glioblastoma phenotypes through FZD6-modulated pathways. *Nature communications*, 7, 12885.

Agarwal S, et al. (2015) G-CSF Promotes Neuroblastoma Tumorigenicity and Metastasis via STAT3-Dependent Cancer Stem Cell Activation. *Cancer research*, 75(12), 2566.

Nagathihalli NS, et al. (2015) Signal Transducer and Activator of Transcription 3, Mediated Remodeling of the Tumor Microenvironment Results in Enhanced Tumor Drug Delivery in a Mouse Model of Pancreatic Cancer. *Gastroenterology*, 149(7), 1932.

Choi YK, et al. (2014) Herbal extract SH003 suppresses tumor growth and metastasis of MDA-MB-231 breast cancer cells by inhibiting STAT3-IL-6 signaling. *Mediators of inflammation*, 2014, 492173.

Teng Y, et al. (2013) Critical role of the WASF3 gene in JAK2/STAT3 regulation of cancer cell motility. *Carcinogenesis*, 34(9), 1994.

Lupberger J, et al. (2013) Epidermal growth factor receptor signaling impairs the antiviral activity of interferon-alpha. *Hepatology (Baltimore, Md.)*, 58(4), 1225.

Canino C, et al. (2012) SASP mediates chemoresistance and tumor-initiating-activity of mesothelioma cells. *Oncogene*, 31(26), 3148.