

Resource Summary Report

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

Stat3-C Flag pRc/CMV

RRID:Addgene_8722

Type: Plasmid

Proper Citation

RRID:Addgene_8722

Plasmid Information

URL: <http://www.addgene.org/8722>

Proper Citation: RRID:Addgene_8722

Insert Name: Stat3-C

Organism: Mus musculus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:10458605](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:5500; Vector Backbone:pRc/CMV; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: Residues changed to Cys renders the molecule constitutively active. Diagnostic Restriction Digest with BamHI (3.2kb, 2.8kb, and 2.0kb). Due to a stop codon error made when tagging the Stat3 clone with FLAG (DYKDDDDK) additional residues precede (SR) and follow the tag (GPYSIVSPKC STOP). The Apal cloning site is GGG CCC, which encodes the G and P residues coming after the FLAG tag. Therefore, if the insert is removed with a NotI and Apal digestion, it will not have a stop codon included. * E16K mutation found during QC

Plasmid Name: Stat3-C Flag pRc/CMV

Relevant Mutation: A662C and N664C. Residues changed to Cys renders the molecule constitutively active. *See comments

Record Creation Time: 20220422T222559+0000

Record Last Update: 20260826T042717+0000

Ratings and Alerts

No rating or validation information has been found for Stat3-C Flag pRc/CMV.

No alerts have been found for Stat3-C Flag pRc/CMV.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 37 mentions in open access literature.

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

McCune A, et al. (2026) Synergistic cooperation between progranulin and Jak2/Stat3 signaling determines definitive myeloid cell fate. *Cell reports*, 45(6), 117477.

Lian P, et al. (2025) S1PR3-driven positive feedback loop sustains STAT3 activation and keratinocyte hyperproliferation in psoriasis. *Cell death & disease*, 16(1), 31.

Ebrahimi B, et al. (2024) Pharmacological inhibition of the LIF/LIFR autocrine loop reveals vulnerability of ovarian cancer cells to ferroptosis. *NPJ precision oncology*, 8(1), 118.

Zhu PL, et al. (2023) A traditional prescription comprising Astragali Radix and Schisandra chinensis Fructus induces apoptosis and protective autophagy in hepatocellular carcinoma cells. *Journal of ethnopharmacology*, 312, 116548.

Mantsounga CS, et al. (2022) Macrophage IL-1 β promotes arteriogenesis by autocrine STAT3- and NF- κ B-mediated transcription of pro-angiogenic VEGF-A. *Cell reports*, 38(5), 110309.

Zhao Q, et al. (2022) Niraparib-induced STAT3 inhibition increases its antitumor effects. *Frontiers in oncology*, 12, 966492.

Cho IJ, et al. (2021) Hemistepsin a Induces Apoptosis of Hepatocellular Carcinoma Cells by Downregulating STAT3. *International journal of molecular sciences*, 22(9).

Grondona P, et al. (2020) Threonine Phosphorylation of I κ B β Mediates Inhibition of Selective Proinflammatory Target Genes. *The Journal of investigative dermatology*, 140(9), 1805.

Müller A, et al. (2020) The CDK4/6-EZH2 pathway is a potential therapeutic target for psoriasis. *The Journal of clinical investigation*, 130(11), 5765.

Takeuchi Y, et al. (2020) Kruppel-like factor 4 upregulates matrix metalloproteinase 13 expression in chondrocytes via mRNA stabilization. *Cell and tissue research*, 382(2), 307.

Liu YX, et al. (2020) Inhibiting the Src/STAT3 signaling pathway contributes to the anti-melanoma mechanisms of dioscin. *Oncology letters*, 19(3), 2508.

Tetsuo F, et al. (2019) Differentiation-inducing factor-1 suppresses cyclin D1-induced cell proliferation of MCF-7 breast cancer cells by inhibiting S6K-mediated signal transducer and activator of transcription 3 synthesis. *Cancer science*, 110(12), 3761.

Marchiori C, et al. (2019) Epithelial CD80 promotes immune surveillance of colonic preneoplastic lesions and its expression is increased by oxidative stress through STAT3 in colon cancer cells. *Journal of experimental & clinical cancer research : CR*, 38(1), 190.

Lainez NM, et al. (2019) Leukemia Inhibitory Factor Represses GnRH Gene Expression via cFOS during Inflammation in Male Mice. *Neuroendocrinology*, 108(4), 291.

Dhaliwal NK, et al. (2019) KLF4 protein stability regulated by interaction with pluripotency transcription factors overrides transcriptional control. *Genes & development*, 33(15-16), 1069.

Fu H, et al. (2019) Tmub1 negatively regulates liver regeneration via inhibiting STAT3 phosphorylation. *Cellular signalling*, 55, 65.

Alsaffar H, et al. (2018) Interleukin-6 promotes a sustained loss of endothelial barrier function via Janus kinase-mediated STAT3 phosphorylation and de novo protein synthesis. *American journal of physiology. Cell physiology*, 314(5), C589.

Almiron Bonnin DA, et al. (2018) Secretion-mediated STAT3 activation promotes self-renewal of glioma stem-like cells during hypoxia. *Oncogene*, 37(8), 1107.

Gao P, et al. (2018) Transforming growth factor β 1 suppresses proinflammatory gene program independent of its regulation on vascular smooth muscle differentiation and autophagy. *Cellular signalling*, 50, 160.

Chen Y, et al. (2015) Lysyl hydroxylase 2 induces a collagen cross-link switch in tumor stroma. *The Journal of clinical investigation*, 125(3), 1147.