

Resource Summary Report

Generated by [NIF](#) on Jul 29, 2026

Stat3 Flag pRc/CMV

RRID:Addgene_8707

Type: Plasmid

Proper Citation

RRID:Addgene_8707

Plasmid Information

URL: <http://www.addgene.org/8707>

Proper Citation: RRID:Addgene_8707

Insert Name: Stat3

Organism: Mus musculus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:7774815](#)

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

Comments: 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 Flag pRc/CMV

Relevant Mutation: *see comments

Record Creation Time: 20220422T222559+0000

Record Last Update: 20260725T075318+0000

Ratings and Alerts

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

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

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 8 mentions in open access literature.

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

Zhang J, et al. (2024) Influenza A virus infection activates STAT3 to enhance SREBP2 expression, cholesterol biosynthesis, and virus replication. *iScience*, 27(8), 110424.

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.

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

Winokur N, et al. (2019) A role for polycystin-1 and polycystin-2 in neural progenitor cell differentiation. *Cellular and molecular life sciences : CMLS*, 76(14), 2851.

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.

Yang L, et al. (2017) Porcine Reproductive and Respiratory Syndrome Virus Antagonizes JAK/STAT3 Signaling via nsp5, Which Induces STAT3 Degradation. *Journal of virology*, 91(3).

Gujral TS, et al. (2014) A noncanonical Frizzled2 pathway regulates epithelial-mesenchymal transition and metastasis. *Cell*, 159(4), 844.

Schwaiberger AV, et al. (2010) Indirubin-3'-monoxime blocks vascular smooth muscle cell proliferation by inhibition of signal transducer and activator of transcription 3 signaling and reduces neointima formation in vivo. *Arteriosclerosis, thrombosis, and vascular biology*, 30(12), 2475.