

Resource Summary Report

Generated by [RRID](#) on Aug 21, 2026

pCDNA3-STAT3-S727D

RRID:Addgene_73364

Type: Plasmid

Proper Citation

RRID:Addgene_73364

Plasmid Information

URL: <http://www.addgene.org/73364>

Proper Citation: RRID:Addgene_73364

Insert Name: Signal Transducer And Activator Of Transcription 3 (Acute-Phase Response Factor)

Organism: Mus musculus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:19875458](#)

Vector Backbone Description: Vector Backbone:pCDNA3; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: E16K mutation originated in Plasmid #8706 but does not affect function. WT control for Plasmid 73364: pCDNA3-STAT3-S727D is Plasmid 8706: Stat3 pcDNA3 from the Darnell lab.

Plasmid Name: pCDNA3-STAT3-S727D

Relevant Mutation: E16K S727D

Record Creation Time: 20220422T222449+0000

Record Last Update: 20260815T081928+0000

Ratings and Alerts

No rating or validation information has been found for pCDNA3-STAT3-S727D.

No alerts have been found for pCDNA3-STAT3-S727D.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Zukowski E, et al. (2023) STAT3 modulates CD4+ T mitochondrial dynamics and function in aging. Aging cell, 22(11), e13996.

De Virgiliis F, et al. (2020) Enriched conditioning expands the regenerative ability of sensory neurons after spinal cord injury via neuronal intrinsic redox signaling. Nature communications, 11(1), 6425.

Cheng X, et al. (2017) Essential role of mitochondrial Stat3 in p38MAPK mediated apoptosis under oxidative stress. Scientific reports, 7(1), 15388.