

Resource Summary Report

Generated by [RRID](#) on Aug 19, 2026

pDONR223-JAK1

RRID:Addgene_23932

Type: Plasmid

Proper Citation

RRID:Addgene_23932

Plasmid Information

URL: <http://www.addgene.org/23932>

Proper Citation: RRID:Addgene_23932

Insert Name: JAK1

Organism: Homo sapiens

Bacterial Resistance: Spectinomycin

Defining Citation: [PMID:21107320](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:5005; Vector Backbone:pDONR223; Vector Types:Gateway Cloning; Bacterial Resistance:Spectinomycin

Comments: The ORF has no Stop codon. This design enables easy recombination into a destination vector to add an epitope tag of choice and Stop codon to the ORF. Do NOT use this plasmid directly for transfections. A set of 4 custom lentiviral vectors is available (pLX301 (<http://www.addgene.org/25895/>) , pLX302 (<http://www.addgene.org/25896/>) , pLX303 (<http://www.addgene.org/25897/>) , pLX304 (<http://www.addgene.org/25890/>)) to be used to express these ORFs in mammalian cells. These plasmids are not included in the kit and must be ordered separately.

Plasmid Name: pDONR223-JAK1

Relevant Mutation: R647H (numbering relative to NP_002218.1)

Record Creation Time: 20220422T222107+0000

Record Last Update: 20260815T081227+0000

Ratings and Alerts

No rating or validation information has been found for pDONR223-JAK1.

No alerts have been found for pDONR223-JAK1.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 6 mentions in open access literature.

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

Xiang Q, et al. (2022) STAT and Janus kinase targeting by human herpesvirus 8 interferon regulatory factor in the suppression of type-I interferon signaling. PLoS pathogens, 18(7), e1010676.

Dykstra PB, et al. (2022) Modulating myoblast differentiation with RNA-based controllers. PloS one, 17(9), e0275298.

Xia Y, et al. (2021) Berberine suppresses bladder cancer cell proliferation by inhibiting JAK1-STAT3 signaling via upregulation of miR-17-5p. Biochemical pharmacology, 188, 114575.

Shomali W, et al. (2021) A novel activating JAK1 mutation in chronic eosinophilic leukemia. Blood advances, 5(18), 3581.

Gruber CN, et al. (2020) Complex Autoinflammatory Syndrome Unveils Fundamental Principles of JAK1 Kinase Transcriptional and Biochemical Function. Immunity, 53(3), 672.

Kim H, et al. (2015) Downregulation of the Ubiquitin Ligase RNF125 Underlies Resistance of Melanoma Cells to BRAF Inhibitors via JAK1 Deregulation. Cell reports, 11(9), 1458.