

Resource Summary Report

Generated by [RRID](#) on Aug 25, 2026

pcDNA3.1(+)**Flag-His-ATM wt**

RRID:Addgene_31985

Type: Plasmid

Proper Citation

RRID:Addgene_31985

Plasmid Information

URL: <http://www.addgene.org/31985>

Proper Citation: RRID:Addgene_31985

Insert Name: ATM wild-type

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:9733515](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:5428; Vector Backbone:pcDNA3.1; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pcDNA3.1(+)**Flag-His-ATM wt**

Relevant Mutation: 3' UTR of 400 nucl.

Record Creation Time: 20220422T222139+0000

Record Last Update: 20260815T081342+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA3.1(+)**Flag-His-ATM wt**.

No alerts have been found for pcDNA3.1(+)**Flag-His-ATM wt**.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 39 mentions in open access literature.

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

Li S, et al. (2024) Kaposi's sarcoma herpesvirus exploits the DNA damage response to circularize its genome. *Nucleic acids research*, 52(4), 1814.

Kim SJ, et al. (2024) Lamin A/C facilitates DNA damage response by modulating ATM signaling and homologous recombination pathways. *Animal cells and systems*, 28(1), 401.

Pradhan S, et al. (2024) Chromatin remodeler BRG1 recruits huntingtin to repair DNA double-strand breaks in neurons. *bioRxiv : the preprint server for biology*.

Zhao H, et al. (2024) Distinct regulation of ATM signaling by DNA single-strand breaks and APE1. *Nature communications*, 15(1), 6517.

Wang G, et al. (2024) The DNA damage-independent ATM signalling maintains CBP/DOT1L axis in MLL rearranged acute myeloid leukaemia. *Oncogene*, 43(25), 1900.

Bodnar-Wachtel M, et al. (2023) Inflammasome-independent NLRP3 function enforces ATM activity in response to genotoxic stress. *Life science alliance*, 6(4).

Zhang J, et al. (2022) SERPINE2/PN-1 regulates the DNA damage response and radioresistance by activating ATM in lung cancer. *Cancer letters*, 524, 268.

Bourseguin J, et al. (2022) Persistent DNA damage associated with ATM kinase deficiency promotes microglial dysfunction. *Nucleic acids research*, 50(5), 2700.

Loke J, et al. (2022) Prediction of breast cancer risk based on flow variant analysis of circulating peripheral blood mononuclear cells. *HGG advances*, 3(2), 100085.

Baughan SL, et al. (2022) Functional analysis of ATM variants in a high risk cohort provides insight into missing heritability. *Cancer genetics*, 264-265, 40.

Petsalaki E, et al. (2021) An ATM-Chk2-INCENP pathway activates the abscission checkpoint. *The Journal of cell biology*, 220(2).

Banerjee D, et al. (2021) A non-canonical, interferon-independent signaling activity of cGAMP triggers DNA damage response signaling. *Nature communications*, 12(1), 6207.

Sarkar A, et al. (2021) Ataxia-telangiectasia mutated interacts with Parkin and induces mitophagy independent of kinase activity. Evidence from mantle cell lymphoma. *Haematologica*, 106(2), 495.

Sarkar A, et al. (2021) Activation of ATM kinase by ROS generated during ionophore-induced mitophagy in human T and B cell malignancies. *Molecular and cellular biochemistry*, 476(1), 417.

Sun HL, et al. (2020) Stabilization of ERK-Phosphorylated METTL3 by USP5 Increases m6A Methylation. *Molecular cell*, 80(4), 633.

Zhang C, et al. (2020) METTL3 and N6-Methyladenosine Promote Homologous Recombination-Mediated Repair of DSBs by Modulating DNA-RNA Hybrid Accumulation. *Molecular cell*, 79(3), 425.

Chow HM, et al. (2019) ATM is activated by ATP depletion and modulates mitochondrial function through NRF1. *The Journal of cell biology*, 218(3), 909.

Kreis P, et al. (2019) ATM phosphorylation of the actin-binding protein drebrin controls oxidation stress-resistance in mammalian neurons and *C. elegans*. *Nature communications*, 10(1), 486.

Zhao J, et al. (2019) ATM Deficiency Accelerates DNA Damage, Telomere Erosion, and Premature T Cell Aging in HIV-Infected Individuals on Antiretroviral Therapy. *Frontiers in immunology*, 10, 2531.

Sethy R, et al. (2018) Regulation of ATM and ATR by SMARCA1 and BRG1. *Biochimica et biophysica acta. Gene regulatory mechanisms*, 1861(12), 1076.