

Resource Summary Report

Generated by [nidm-terms](#) on Aug 10, 2026

pEGFP-C1-FLAG-Ku70

RRID:Addgene_46957

Type: Plasmid

Proper Citation

RRID:Addgene_46957

Plasmid Information

URL: <http://www.addgene.org/46957>

Proper Citation: RRID:Addgene_46957

Insert Name: Ku70

Organism: Homo sapiens

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:23897892](#)

Vector Backbone Description: Backbone Size:4766; Vector Backbone:pEGFP-C1-FLAG; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Plasmid Name: pEGFP-C1-FLAG-Ku70

Record Creation Time: 20220422T222242+0000

Record Last Update: 20260808T081727+0000

Ratings and Alerts

No rating or validation information has been found for pEGFP-C1-FLAG-Ku70.

No alerts have been found for pEGFP-C1-FLAG-Ku70.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 13 mentions in open access literature.

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

Comstock WJ, et al. (2025) Proteomic sensors for quantitative multiplexed and spatial monitoring of kinase signaling. *Nature communications*, 16(1), 9902.

Saleh H, et al. (2024) KH-like Domains in PARP9/DTX3L and PARP14 Coordinate Protein-Protein Interactions to Promote Cancer Cell Survival. *Journal of molecular biology*, 436(4), 168434.

Tosello V, et al. (2024) BCAT1 Associates with DNA Repair Proteins KU70 and KU80 and Contributes to Regulate DNA Repair in T-Cell Acute Lymphoblastic Leukemia (T-ALL). *International journal of molecular sciences*, 25(24).

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

Wang YH, et al. (2022) Rapid recruitment of p53 to DNA damage sites directs DNA repair choice and integrity. *Proceedings of the National Academy of Sciences of the United States of America*, 119(10), e2113233119.

Demirbag-Sarikaya S, et al. (2022) A novel ATG5 interaction with Ku70 potentiates DNA repair upon genotoxic stress. *Scientific reports*, 12(1), 8134.

Tanaka H, et al. (2021) HMGB1 signaling phosphorylates Ku70 and impairs DNA damage repair in Alzheimer's disease pathology. *Communications biology*, 4(1), 1175.

Wang Y, et al. (2021) Cytoplasmic DNA sensing by KU complex in aged CD4+ T cell potentiates T cell activation and aging-related autoimmune inflammation. *Immunity*, 54(4), 632.

Sharma A, et al. (2020) USP14 is a deubiquitinase for Ku70 and critical determinant of non-homologous end joining repair in autophagy and PTEN-deficient cells. *Nucleic acids research*, 48(2), 736.

Nicolai S, et al. (2020) ZNF281 is recruited on DNA breaks to facilitate DNA repair by non-homologous end joining. *Oncogene*, 39(4), 754.

Parvin S, et al. (2019) LMO2 Confers Synthetic Lethality to PARP Inhibition in DLBCL. *Cancer cell*, 36(3), 237.

Fouquin A, et al. (2017) PARP2 controls double-strand break repair pathway choice by limiting 53BP1 accumulation at DNA damage sites and promoting end-resection. *Nucleic acids research*, 45(21), 12325.

Frost JR, et al. (2017) The interaction of adenovirus E1A with the mammalian protein Ku70/XRCC6. *Virology*, 500, 11.