

Resource Summary Report

Generated by [RRID](#) on Aug 30, 2026

GFP-BLM

RRID:Addgene_80070

Type: Plasmid

Proper Citation

RRID:Addgene_80070

Plasmid Information

URL: <http://www.addgene.org/80070>

Proper Citation: RRID:Addgene_80070

Insert Name: BLM

Organism: Homo sapiens

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:11406610](#)

Vector Backbone Description: Backbone Marker:CLONTECH; Backbone Size:4731; Vector Backbone:EGFP-C1; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Plasmid Name: GFP-BLM

Relevant Mutation: If correct ID, the cDNA is from HeLa and has characteristic African-ancestry nt

Record Creation Time: 20220422T222524+0000

Record Last Update: 20260829T081113+0000

Ratings and Alerts

No rating or validation information has been found for GFP-BLM.

No alerts have been found for GFP-BLM.

Data and Source Information

Usage and Citation Metrics

We found 11 mentions in open access literature.

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

Zhao R, et al. (2025) Telomeric SUMO level influences the choices of APB formation pathways and ALT efficiency. *bioRxiv : the preprint server for biology*.

Zhao R, et al. (2024) SUMO Promotes DNA Repair Protein Collaboration to Support Alternative Telomere Lengthening in the Absence of PML. *bioRxiv : the preprint server for biology*.

Jiang H, et al. (2024) BLM helicase unwinds lagging strand substrates to assemble the ALT telomere damage response. *Molecular cell*, 84(9), 1684.

Zhao R, et al. (2024) SUMO promotes DNA repair protein collaboration to support alternative telomere lengthening in the absence of PML. *Genes & development*, 38(13-14), 614.

Liu S, et al. (2023) A CK2 and SUMO-dependent, PML NB-involved regulatory mechanism controlling BLM ubiquitination and G-quadruplex resolution. *Nature communications*, 14(1), 6111.

Dacus D, et al. (2022) Beta Human Papillomavirus 8 E6 Induces Micronucleus Formation and Promotes Chromothripsis. *Journal of virology*, 96(19), e0101522.

Mason-Osann E, et al. (2020) RAD54 promotes alternative lengthening of telomeres by mediating branch migration. *EMBO reports*, 21(6), e49495.

Loe TK, et al. (2020) Telomere length heterogeneity in ALT cells is maintained by PML-dependent localization of the BTR complex to telomeres. *Genes & development*, 34(9-10), 650.

Orav M, et al. (2019) Interaction of the Human Papillomavirus E1 Helicase with UAF1-USP1 Promotes Unidirectional Theta Replication of Viral Genomes. *mBio*, 10(2).

Panier S, et al. (2019) SLX4IP Antagonizes Promiscuous BLM Activity during ALT Maintenance. *Molecular cell*, 76(1), 27.

Patel DS, et al. (2017) BLM helicase regulates DNA repair by counteracting RAD51 loading at DNA double-strand break sites. *The Journal of cell biology*, 216(11), 3521.