

Resource Summary Report

Generated by [NIF](#) on Jul 29, 2026

ppyCAG_RNaseH1_WKKD

RRID:Addgene_111905

Type: Plasmid

Proper Citation

RRID:Addgene_111905

Plasmid Information

URL: <http://www.addgene.org/111905>

Proper Citation: RRID:Addgene_111905

Insert Name: RNASEH1

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:29104020](#)

Vector Backbone Description: Backbone Size:6500; Vector Backbone:ppyCAG; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: Due to high GC content of the CAG promoter, there are some discrepancies in the promoter sequence. These are not known to affect the plasmid function.

Plasmid Name: ppyCAG_RNaseH1_WKKD

Relevant Mutation: Changed D 210 to N, W 43 to A, K 59 to A, K 60 to A, D274 to N

Record Creation Time: 20220422T221545+0000

Record Last Update: 20260725T073514+0000

Ratings and Alerts

No rating or validation information has been found for ppyCAG_RNaseH1_WKKD.

No alerts have been found for ppyCAG_RNaseH1_WKKD.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 11 mentions in open access literature.

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

Fielden J, et al. (2025) Comprehensive interrogation of synthetic lethality in the DNA damage response. *Nature*, 640(8060), 1093.

Zhao Y, et al. (2025) Interferon-dependent R-loop induction by Zika virus contributes to growth attenuation. *PNAS nexus*, 4(5), pgaf147.

Duardo RC, et al. (2024) Human DNA topoisomerase I poisoning causes R loop-mediated genome instability attenuated by transcription factor IIS. *Science advances*, 10(21), eadm8196.

Cusan M, et al. (2023) SF3B1 mutation and ATM deletion codrive leukemogenesis via centromeric R-loop dysregulation. *The Journal of clinical investigation*, 133(17).

Ma TS, et al. (2023) Hypoxia-induced transcriptional stress is mediated by ROS-induced R-loops. *Nucleic acids research*, 51(21), 11584.

Kitagawa R, et al. (2023) EWSR1 maintains centromere identity. *Cell reports*, 42(6), 112568.

Lin P, et al. (2023) Topoisomerase 1 Inhibition in MYC-Driven Cancer Promotes Aberrant R-Loop Accumulation to Induce Synthetic Lethality. *Cancer research*, 83(24), 4015.

Savoca V, et al. (2023) TERRA stability is regulated by RALY and polyadenylation in a telomere-specific manner. *Cell reports*, 42(4), 112406.

Ketley RF, et al. (2022) DNA double-strand break-derived RNA drives TIRR/53BP1 complex dissociation. *Cell reports*, 41(4), 111526.

Guo H, et al. (2021) NR4A1 regulates expression of immediate early genes, suppressing replication stress in cancer. *Molecular cell*, 81(19), 4041.

Edwards DS, et al. (2020) BRD4 Prevents R-Loop Formation and Transcription-Replication Conflicts by Ensuring Efficient Transcription Elongation. *Cell reports*, 32(12), 108166.