

Resource Summary Report

Generated by [RRID](#) on Aug 20, 2026

[pSANG10-3F-BG4](#)

RRID:Addgene_55756

Type: Plasmid

Proper Citation

RRID:Addgene_55756

Plasmid Information

URL: <http://www.addgene.org/55756>

Proper Citation: RRID:Addgene_55756

Insert Name: BG4

Organism: human phage display antibody from Sanger library

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:23422559](#)

Vector Backbone Description: Backbone Marker:John McCafferty; Backbone Size:5438; Vector Backbone:pSANG10-3F; Vector Types:Bacterial Expression; Bacterial Resistance:Kanamycin

Plasmid Name: pSANG10-3F-BG4

Record Creation Time: 20220422T222326+0000

Record Last Update: 20260815T081652+0000

Ratings and Alerts

No rating or validation information has been found for pSANG10-3F-BG4.

No alerts have been found for pSANG10-3F-BG4.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 29 mentions in open access literature.

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

Pevec M, et al. (2025) Structural basis of G-quadruplex recognition by a camelid antibody fragment. *Nucleic acids research*, 53(10).

Soriano-Lerma A, et al. (2025) In-depth analysis of the mode of action of resveratrol: genome-wide characterization of G-quadruplex binding properties. *Cellular & molecular biology letters*, 30(1), 74.

DeMeis JD, et al. (2025) Long G4-rich enhancers target promoters via a G4 DNA-based mechanism. *Nucleic acids research*, 53(2).

Wang B, et al. (2025) ebv-sisRNA-3 contributes to the formation of G4-associated R-loop upstream of EBV lytic replication origin in latently infected cells. *Cell & bioscience*, 15(1), 91.

Germoglio M, et al. (2025) Effects of hydrazone-based G-quadruplex ligands on FANCDJ/BRIP1-depleted cancer cells and a *Caenorhabditis elegans* dog-1^{-/-} strain. *NAR cancer*, 7(1), zcaf004.

Andreasson M, et al. (2024) Exploring the Dispersion and Electrostatic Components in Arene-Arene Interactions between Ligands and G4 DNA to Develop G4-Ligands. *Journal of medicinal chemistry*, 67(3), 2202.

Esain-Garcia I, et al. (2024) G-quadruplex DNA structure is a positive regulator of MYC transcription. *Proceedings of the National Academy of Sciences of the United States of America*, 121(7), e2320240121.

Cui X, et al. (2024) YY1 is involved in homologous recombination inhibition at guanine quadruplex sites in human cells. *Nucleic acids research*, 52(13), 7401.

Asamitsu S, et al. (2023) RNA G-quadruplex organizes stress granule assembly through DNAPTP6 in neurons. *Science advances*, 9(8), eade2035.

Parisis N, et al. (2023) Histone H3 serine-57 is a CHK1 substrate whose phosphorylation affects DNA repair. *Nature communications*, 14(1), 5104.

Zanin I, et al. (2023) Genome-wide mapping of i-motifs reveals their association with transcription regulation in live human cells. *Nucleic acids research*, 51(16), 8309.

Le Bras M, et al. (2022) Translational Regulation by hnRNP H/F Is Essential for the Proliferation and Survival of Glioblastoma. *Cancers*, 14(5).

Feng Y, et al. (2022) Epigenomic features of DNA G-quadruplexes and their roles in regulating rice gene transcription. *Plant physiology*, 188(3), 1632.

Dahal S, et al. (2022) Unleashing a novel function of Endonuclease G in mitochondrial genome instability. *eLife*, 11.

Keller JG, et al. (2022) Topoisomerase 1 inhibits MYC promoter activity by inducing G-quadruplex formation. *Nucleic acids research*, 50(11), 6332.

Galati E, et al. (2021) VID22 counteracts G-quadruplex-induced genome instability. *Nucleic acids research*, 49(22), 12785.

Masson T, et al. (2021) BrdU immuno-tagged G-quadruplex ligands: a new ligand-guided immunofluorescence approach for tracking G-quadruplexes in cells. *Nucleic acids research*, 49(22), 12644.

Li C, et al. (2021) Ligand-induced native G-quadruplex stabilization impairs transcription initiation. *Genome research*, 31(9), 1546.

Jurikova K, et al. (2020) Role of folding kinetics of secondary structures in telomeric G-overhangs in the regulation of telomere maintenance in *Saccharomyces cerevisiae*. *The Journal of biological chemistry*, 295(27), 8958.

Asamitsu S, et al. (2020) Identification and immunohistochemical characterization of G-quadruplexes in mouse brain. *Biochemical and biophysical research communications*, 531(1), 67.