

# Resource Summary Report

Generated by [kravitz2](#) on Aug 27, 2026

## BE4-Gam

RRID:Addgene\_100806

Type: Plasmid

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### Proper Citation

RRID:Addgene\_100806

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### Plasmid Information

**URL:** <http://www.addgene.org/100806>

**Proper Citation:** RRID:Addgene\_100806

**Insert Name:** BE4-Gam

**Organism:** Rattus norvegicus

**Bacterial Resistance:** Ampicillin

**Defining Citation:** [PMID:28875174](#)

**Vector Backbone Description:** Backbone Size:3402; Vector Backbone:pCMV; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

**Plasmid Name:** BE4-Gam

**Record Creation Time:** 20220422T221450+0000

**Record Last Update:** 20260826T040322+0000

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### Ratings and Alerts

No rating or validation information has been found for BE4-Gam.

No alerts have been found for BE4-Gam.

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### Data and Source Information

**Source:** [Addgene](#)

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### Usage and Citation Metrics

We found 20 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [kravitz2](#) .

Sun Y, et al. (2025) Deep learning models simultaneously trained on multiple datasets improve base-editing activity prediction. *Nature communications*, 16(1), 9821.

Araki K, et al. (2024) Non-canonical olfactory pathway activation induces cell fusion of cervical cancer cells. *Neoplasia (New York, N.Y.)*, 57, 101044.

Hiramoto T, et al. (2023) PAM-flexible Cas9-mediated base editing of a hemophilia B mutation in induced pluripotent stem cells. *Communications medicine*, 3(1), 56.

Li Q, et al. (2023) Base editing-mediated one-step inactivation of the Dnmt gene family reveals critical roles of DNA methylation during mouse gastrulation. *Nature communications*, 14(1), 2922.

Zhang B, et al. (2023) An HBV susceptibility variant of KNG1 modulates the therapeutic effects of interferons  $\alpha$  and  $\beta$  in HBV infection by promoting MAVS lysosomal degradation. *EBioMedicine*, 94, 104694.

Thumberger T, et al. (2022) Boosting targeted genome editing using the hei-tag. *eLife*, 11.

Tao J, et al. (2022) Frequency and mechanisms of LINE-1 retrotransposon insertions at CRISPR/Cas9 sites. *Nature communications*, 13(1), 3685.

Guyon A, et al. (2021) Base editing strategy for insertion of the A673T mutation in the APP gene to prevent the development of AD in vitro. *Molecular therapy. Nucleic acids*, 24, 253.

Papke CM, et al. (2021) A disorder-related variant (E420K) of a PP2A-regulatory subunit (PPP2R5D) causes constitutively active AKT-mTOR signaling and uncoordinated cell growth. *The Journal of biological chemistry*, 296, 100313.

Zhang N, et al. (2021) Identification and characterization of a novel mutant isocitrate dehydrogenase 1 inhibitor for glioma treatment. *Biochemical and biophysical research communications*, 551, 38.

Rosello M, et al. (2021) Precise base editing for the in vivo study of developmental signaling and human pathologies in zebrafish. *eLife*, 10.

Yuan H, et al. (2020) Efficient base editing by RNA-guided cytidine base editors (CBEs) in pigs. *Cellular and molecular life sciences : CMLS*, 77(4), 719.

Zhang W, et al. (2020) Multiplex precise base editing in cynomolgus monkeys. *Nature communications*, 11(1), 2325.

Liu Z, et al. (2020) Efficient base editing with high precision in rabbits using YFE-BE4max. *Cell death & disease*, 11(1), 36.

Smith CJ, et al. (2020) Enabling large-scale genome editing at repetitive elements by reducing DNA nicking. *Nucleic acids research*, 48(9), 5183.

Liu Z, et al. (2019) Expanded targeting scope and enhanced base editing efficiency in rabbit using optimized xCas9(3.7). *Cellular and molecular life sciences* : CMLS, 76(20), 4155.

Standage-Beier K, et al. (2019) A transient reporter for editing enrichment (TREE) in human cells. *Nucleic acids research*, 47(19), e120.

Li B, et al. (2019) A qPCR method for genome editing efficiency determination and single-cell clone screening in human cells. *Scientific reports*, 9(1), 18877.

Lu Y, et al. (2019) Mutations of GADD45G in rabbits cause cleft lip by the disorder of proliferation, apoptosis and epithelial-mesenchymal transition (EMT). *Biochimica et biophysica acta. Molecular basis of disease*, 1865(9), 2356.

Liu Z, et al. (2018) Highly efficient RNA-guided base editing in rabbit. *Nature communications*, 9(1), 2717.