Resource Summary Report

Generated by SPARC SAWG on Sep 20, 2026

pcDNA3 236HSC WT (BRCA2)

RRID:Addgene_16246
Type: Plasmid

Proper Citation

RRID:Addgene_16246

Plasmid Information

URL: http://www.addgene.org/16246

Proper Citation: RRID:Addgene_16246

Insert Name: BRCA2

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: PMID:11888897

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:5400; Vector Backbone:pcDNA3; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: To construct p236BRCA2, the pcDNA3 vector was first modified by inserting a 236-bp fragment of the 5' untranslated region of BRCA2 between the KpnI and NotI sites. The assembled full-length BRCA2 cDNA was then inserted at the XhoI site of this plasmid. The 5' UTR of BRCA2 was obtained by RT-PCR using primers 5'-GGTACCGGTG GCGCGAGCTT CTGA-3' and 5'-GCGGCCGCAA CTACGATATT CCTCCAAT-3'.

Plasmid Name: pcDNA3 236HSC WT (BRCA2)

Record Creation Time: 20220422T221918+0000

Record Last Update: 20260919T091233+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA3 236HSC WT (BRCA2).

No alerts have been found for pcDNA3 236HSC WT (BRCA2).

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 7 mentions in open access literature.

Listed below are recent publications. The full list is available at SPARC SAWG .

Hayashi T, et al. (2024) Hereditary Gastric Cancer Is Linked With Hereditary Breast and Ovarian Cancer. World journal of oncology, 15(4), 722.

Bolgi O, et al. (2022) Dipeptidyl peptidase 9 triggers BRCA2 degradation and promotes DNA damage repair. EMBO reports, 23(10), e54136.

Yoshimatsu S, et al. (2022) Homologous Recombination-Enhancing Factors Identified by Comparative Transcriptomic Analyses of Pluripotent Stem Cell of Human and Common Marmoset. Cells, 11(3).

Tseng WC, et al. (2021) Targeting HR Repair as a Synthetic Lethal Approach to Increase DNA Damage Sensitivity by a RAD52 Inhibitor in BRCA2-Deficient Cancer Cells. International journal of molecular sciences, 22(9).

Brnich SE, et al. (2021) A Validated Functional Analysis of Partner and Localizer of BRCA2 Missense Variants for Use in Clinical Variant Interpretation. The Journal of molecular diagnostics : JMD, 23(7), 847.

Ikegami M, et al. (2020) High-throughput functional evaluation of BRCA2 variants of unknown significance. Nature communications, 11(1), 2573.

Kwon WS, et al. (2017) Modulation of HAT activity by the BRCA2 N372H variation is a novel mechanism of paclitaxel resistance in breast cancer cell lines. Biochemical pharmacology, 138, 163.