

Resource Summary Report

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

pSIN4-EF2-ABCG2-IRES-Neo

RRID:Addgene_25983

Type: Plasmid

Proper Citation

RRID:Addgene_25983

Plasmid Information

URL: <http://www.addgene.org/25983>

Proper Citation: RRID:Addgene_25983

Insert Name: ATP-binding cassette, sub-family G (WHITE), member 2, variant of isoform 2

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:19670287](#)

Vector Backbone Description: Backbone Marker:James Thomson; Backbone Size:6500; Vector Backbone:pSIN-EF2-MCS-IRES-Neo; Vector Types:Mammalian Expression, Lentiviral; Bacterial Resistance:Ampicillin

Comments: Please note that the backbone of this plasmid is larger than the reported 6.5kb (see attached diagnostic digest).

Plasmid Name: pSIN4-EF2-ABCG2-IRES-Neo

Relevant Mutation: None

Record Creation Time: 20220422T222116+0000

Record Last Update: 20260815T081247+0000

Ratings and Alerts

No rating or validation information has been found for pSIN4-EF2-ABCG2-IRES-Neo.

No alerts have been found for pSIN4-EF2-ABCG2-IRES-Neo.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 5 mentions in open access literature.

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

Nayak D, et al. (2020) Quinacrine and curcumin synergistically increased the breast cancer stem cells death by inhibiting ABCG2 and modulating DNA damage repair pathway. The international journal of biochemistry & cell biology, 119, 105682.

Yousaf M, et al. (2020) Modulation of ABCG2 surface expression by Rab5 and Rab21 to overcome multidrug resistance in cancer cells. Xenobiotica; the fate of foreign compounds in biological systems, 50(8), 988.

Zhang X, et al. (2018) Fasudil increases temozolomide sensitivity and suppresses temozolomide-resistant glioma growth via inhibiting ROCK2/ABCG2. Cell death & disease, 9(2), 190.

Yu B, et al. (2017) GLI1-mediated regulation of side population is responsible for drug resistance in gastric cancer. Oncotarget, 8(16), 27412.

Samanta S, et al. (2013) IMP3 protein promotes chemoresistance in breast cancer cells by regulating breast cancer resistance protein (ABCG2) expression. The Journal of biological chemistry, 288(18), 12569.