

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](#) .

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.

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.

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.