

Resource Summary Report

Generated by [NIF](#) on Jul 29, 2026

pLVX-Puro-mRuby-Sec23A

RRID:Addgene_36158

Type: Plasmid

Proper Citation

RRID:Addgene_36158

Plasmid Information

URL: <http://www.addgene.org/36158>

Proper Citation: RRID:Addgene_36158

Insert Name: Sec23A

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:21045114](#)

Vector Backbone Description: Backbone Marker:Clontech; Vector Backbone:pLVX-Puro; Vector Types:Mammalian Expression, Lentiviral; Bacterial Resistance:Ampicillin

Comments: The cDNA sequence encoding mRuby (Kredel et al., 2009) underwent codon usage adaptation before gene synthesis (MWG Eurofins) and cloning into pBluescript II SK(+). mRuby was excised with Sall-EcoRI for insertion into pLVX-Puro (Clontech) to generate pLVX-Puro-mRuby. A cDNA encoding human Sec23A was amplified by PCR, gel purified and subcloned via pGEM-T vector (excised with ApaI-XbaI) and cloned into pLVX-Puro-mRuby.

Plasmid Name: pLVX-Puro-mRuby-Sec23A

Record Creation Time: 20220422T222154+0000

Record Last Update: 20260725T074613+0000

Ratings and Alerts

No rating or validation information has been found for pLVX-Puro-mRuby-Sec23A.

No alerts have been found for pLVX-Puro-mRuby-Sec23A.

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 [NIF](#) .

Lakunina A, et al. (2025) Neuropixels Opto: Combining high-resolution electrophysiology and optogenetics. bioRxiv : the preprint server for biology.

Fuller DM, et al. (2025) ATG2A engages Rab1a and ARFGAP1 positive membranes during autophagosome biogenesis. bioRxiv : the preprint server for biology.

Sun Z, et al. (2022) Sec23a inhibits the self-renewal of melanoma cancer stem cells via inactivation of ER-phagy. Cell communication and signaling : CCS, 20(1), 22.

Zeng B, et al. (2021) SEC23A Inhibit Melanoma Metastatic through Secretory PF4 Cooperation with SPARC to Inhibit MAPK Signaling Pathway. International journal of biological sciences, 17(12), 3000.

Sun Z, et al. (2020) S100A8 transported by SEC23A inhibits metastatic colonization via autocrine activation of autophagy. Cell death & disease, 11(8), 650.

McCaughey J, et al. (2019) ER-to-Golgi trafficking of procollagen in the absence of large carriers. The Journal of cell biology, 218(3), 929.

Sun Z, et al. (2018) Sec23a mediates miR-200c augmented oligometastatic to polymetastatic progression. EBioMedicine, 37, 47.