

Resource Summary Report

Generated by [dkNET](#) on Sep 9, 2026

pLVPT-GDNF-rtTR-KRAB-2SM2

RRID:Addgene_11647

Type: Plasmid

Proper Citation

RRID:Addgene_11647

Plasmid Information

URL: <http://www.addgene.org/11647>

Proper Citation: RRID:Addgene_11647

Insert Name: mPGK, GDNF, rtTR-KRAB-2SM2, Tet-Off

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:16432520](#)

Vector Backbone Description: Backbone Size:11516; Vector Backbone:pLVPT-rtTR-KRAB-2SM2; Vector Types:Mammalian Expression, Lentiviral; Bacterial Resistance:Ampicillin

Comments: Transgenes can be expressed from any RNA Pol II promoter as part of bicistronic unit comprising the KRAB-based repressor; tetO sequences are inserted into the vector LTR. Tet-on and Tet-off versions rely on repressors that bind in the absence or the presence of doxycycline, respectively. Addition of Pol III promoter-small hairpin RNA cassette allows for drug-controllable RNA interference (Tet-on shRNA). Cloning shRNA into pLVET, pLVCT, and pLVPT vectors: first clone shRNA into pLVTHM downstream of the tetO-H1 region. Then cut pLVTHM containing your shRNA with MscI-FspI and clone the insert containing the 3'LTR to target plasmid opened with MscI-FspI. FspI cuts into AmpR. This means for inverted clones AmpR will not be restored; after selection you will be left with clones with the shRNA cassette and functional AmpR. pLVTHM and packaging plasmid for this system are also available at Addgene <http://www.addgene.org/rnaitools> Please visit Trono lab website <http://tronolab.epfl.ch> to see frequently asked questions on cloning strategies and packaging.

Plasmid Name: pLVPT-GDNF-rtTR-KRAB-2SM2

Record Creation Time: 20220422T221610+0000

Record Last Update: 20260905T074513+0000

Ratings and Alerts

No rating or validation information has been found for pLVPT-GDNF-rtTR-KRAB-2SM2.

No alerts have been found for pLVPT-GDNF-rtTR-KRAB-2SM2.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

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

Alladin A, et al. (2020) Tracking cells in epithelial acini by light sheet microscopy reveals proximity effects in breast cancer initiation. eLife, 9.

Shakhbazau A, et al. (2013) Doxycycline-regulated GDNF expression promotes axonal regeneration and functional recovery in transected peripheral nerve. Journal of controlled release : official journal of the Controlled Release Society, 172(3), 841.