

Resource Summary Report

Generated by [RRID](#) on Aug 23, 2026

pLVCT-rtTR-KRAB-2SM2

RRID:Addgene_11779

Type: Plasmid

Proper Citation

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Plasmid Information

URL: <http://www.addgene.org/11779>

Proper Citation: RRID:Addgene_11779

Insert Name: CAG promoters, GFP, rtTR-KRAB-2SM2, Tet-off

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:16432520](#)

Vector Backbone Description: Backbone Size:12859; Vector Backbone:None; 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: pLVCT-rtTR-KRAB-2SM2

Record Creation Time: 20220422T221617+0000

Record Last Update: 20260815T080257+0000

Ratings and Alerts

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

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

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](#) .

Luo L, et al. (2023) Muscle Injuries Induce a Prostacyclin-PPAR α /PGC1 α -FAO Spike That Boosts Regeneration. Advanced science (Weinheim, Baden-Wurttemberg, Germany), e2301519.

Chen H, et al. (2018) Aptazyme-mediated direct modulation of post-transcriptional sgRNA level for conditional genome editing and gene expression. Journal of biotechnology, 288, 23.

Berthelsen MF, et al. (2017) Pancreas specific expression of oncogenes in a porcine model. Transgenic research, 26(5), 603.

Callesen MM, et al. (2017) A genetically inducible porcine model of intestinal cancer. Molecular oncology, 11(11), 1616.

Kesireddy V, et al. (2010) Multipurpose modular lentiviral vectors for RNA interference and transgene expression. Molecular biology reports, 37(6), 2863.