

Resource Summary Report

Generated by [dkNET](#) on Sep 8, 2026

pLVET-tTR-KRAB

RRID:Addgene_11644

Type: Plasmid

Proper Citation

RRID:Addgene_11644

Plasmid Information

URL: <http://www.addgene.org/11644>

Proper Citation: RRID:Addgene_11644

Insert Name: hEF-1alpha, GFP, tTR-KRAB, Tet-on

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:16432520](#)

Vector Backbone Description: Backbone Size:12386; 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 note that the full sequence for this plasmid is approximated and not fully verified. Please visit Trono lab website <http://tronolab.epfl.ch> to see frequently asked questions on cloning strategies and packaging.

Plasmid Name: pLVET-tTR-KRAB

Record Creation Time: 20220422T221610+0000

Record Last Update: 20260905T074512+0000

Ratings and Alerts

No rating or validation information has been found for pLVET-tTR-KRAB.

No alerts have been found for pLVET-tTR-KRAB.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 6 mentions in open access literature.

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

Lee Y, et al. (2023) The role of microRNA-325-3p as a critical player in cell death in NSCs and astrocytes. *Frontiers in cell and developmental biology*, 11, 1223987.

Zhang K, et al. (2017) Oncogenic K-Ras upregulates ITGA6 expression via FOSL1 to induce anoikis resistance and synergizes with α 5 β 1-Class integrins to promote EMT. *Oncogene*, 36(41), 5681.

Ren B, et al. (2016) LPA/PKD-1-FoxO1 Signaling Axis Mediates Endothelial Cell CD36 Transcriptional Repression and Proangiogenic and Proarteriogenic Reprogramming. *Arteriosclerosis, thrombosis, and vascular biology*, 36(6), 1197.

Du ZW, et al. (2010) Lentiviral vector-mediated transgenesis in human embryonic stem cells. *Methods in molecular biology* (Clifton, N.J.), 614, 127.

Kurata R, et al. (2010) Inhibition of the CXCR3-mediated pathway suppresses ultraviolet B-induced pigmentation and erythema in skin. *The British journal of dermatology*, 163(3), 593.

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