



## Lentiviral packaging plasmids Manual

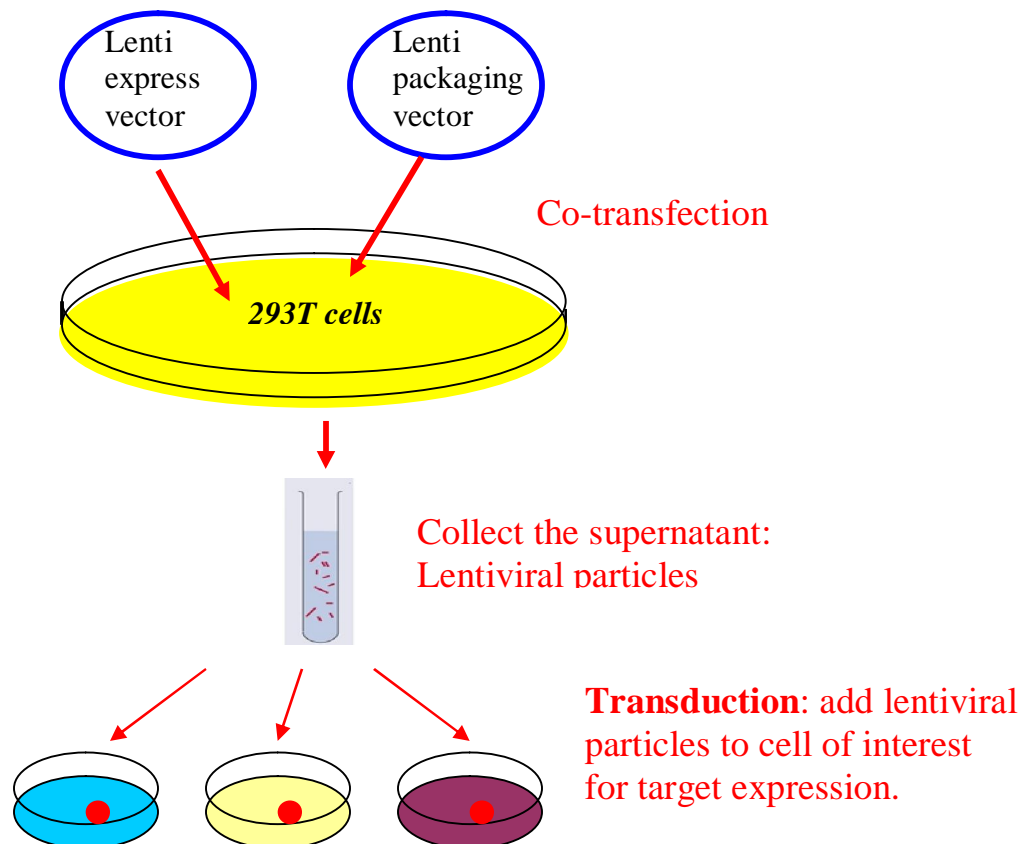
**Cat#:** HT-Pack  
**Storage:** -20oC,

**Amount:** 600ng/ul x 100ul (100rxn)

### Product description:

This re-engineered, lentiviral packaging plasmid contains the coordinated, optimized expression of gag/pol, rev and VSVG. It generates **high titers** of lentivirus in 293T lentiviral packaging cell line (**Cat# TLV-C**) after co-transfection with lentiviral expression vectors (see picture below). The packaging plasmid was engineered to minimize the likelihood of recombination between expression vector and packaging components for enhanced safety and high yield virus production. After co-transfected with the third generation lentiviral expression vector (for example, Gentarget's SureTiter lentiviral system), it generates only replication-incompetent lentivirus.

It is fully compatible to all current lentiviral system on market. So it can used to pack your desired lentivectors, such as ViraPower / Block-it (Invitrogen), MissionShRNA(Sigma), Lent-X(Clontech), GIPZ Lentiviral ShRNAmir (Open Biosystem). It adapted the third generation lentiviral packaging system and generates only replication-incompetent lentivirus.





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## **Lentivirus Production protocols:**

Day 1:

In desired plate wells (24-well or 6-well plates), add sufficient 293T cells (**Cat# [TLV-C](#)**) to achieve 90% confluence (after incubation) by the time of transfection.

Day 2:

Transfect cells using your favorite transfection reagents by mix lenti expression plasmid and packaging plasmid at ratio of 1 : 1.5.

For example: add 400ng of expression plasmid and 1ul (600ng) of packaging plasmids for transfection into one well in 24-well plate, mix with 2ul of *Lipofectamine™ 2000* (Invitrogen).

Day 3:

Harvest lentiviral supernatant 48-72 hours after transfection. Centrifuge 5 minutes at 1500 rpm to remove cell debris and filtered on 0.45 µm. Lentiviral particles are ready for use. For long term storage, store supernatant at -80°C in aliquots.

## **Safety Precaution:**

Please use extra caution when handling lentiviral particles. Wear glove all the time! Please refer CDC and NIH's links (see references) for more details regarding to safety issues.

## **Warranty:**

This product is for Research Use only. It is warranted to meet its quality as described when used accordance with its instructions. Gentarget disclaims any implied warranty of this product for particular application. In no event shall GenTarget be liable for any incidental or consequential damages in connection with the products. Gentarget's sole remedy for breach of this warranty should be, at Gentarget's option, to replace the products.