



Sept. 19, 2018

To whom it many concern:

1. Bio-safety statement about GenTarget's lentivectors:

1. GenTarget's target over-expression or shRNA knockdown lentivectors have adapted most updated bio-safety features, like contain a SIN (self-inactivation system with the 3' LTR deletion) in all GenTarget's lentivectors. **It only generates replication incompetent lentivirus.** No any pathogenic genes were included in GenTarget's lentivectors, such as *Sflt-1*, *vif*, *nef*, and no other harmful genes from HIV-1 virus were included. See vector map below.
2. It was packaged via V-SVG envelop protein. The packaging plasmid mix has three plasmids. The homologue sequences are minimized among lentivector and packaging plasmids. Please see the attached three packaging plasmid's maps below.
3. All GenTarget's lentivectors are tested RCL negative (via ELISA p24 assay) during the development.
4. Each GenTarget generated cell line is tested RCL negative prior to sell.
5. GenTarget's lentivirus particles are provided for research use only. GenTarget does not test each virus's RCL since all GenTarget's lentiviral particles are generated from the same lentivector backbone that was tested RCL negative in the product development stage. When large virus production occur (>100ml), GenTarget will test the RCL per request.

2. GenTarget's lentivector map schemes:

Please review our package plasmid map and our transfer lentivector map schemes below:

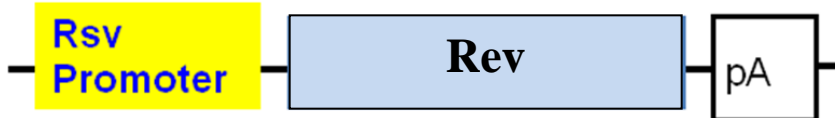


1. The three packaging plasmid are:

Package#1-CMV(gag):



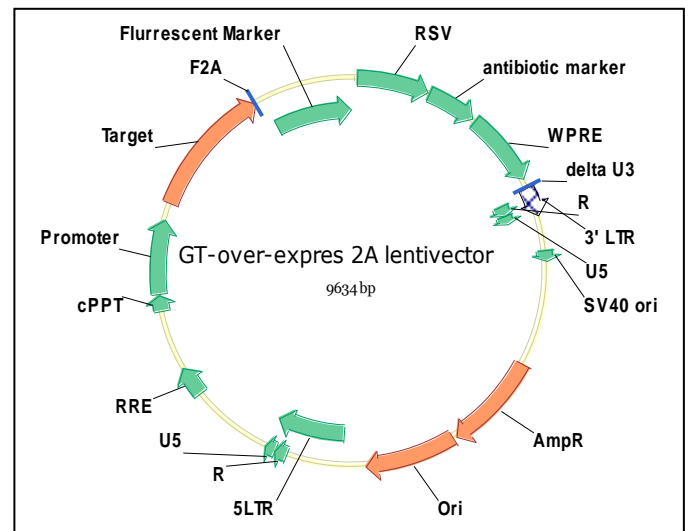
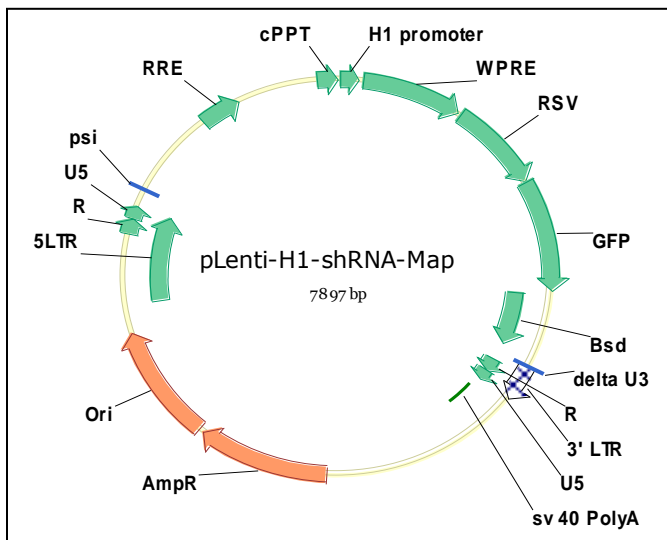
Package#2-Rsv -Rev



Package#3-CMV(VSV-G):



2. GenTarget's Expression lentivector map : (where the promoter can be CMV or Ef1a or other promoters, target can be any ORF or a reporter gene)





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Should you have any questions, please contact us via email.

Thank you for your attention,

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