

# Product Specification Sheet

<b>Product Name</b>	<b>pLenti-SFFV-MCS-PGK-Puro Lentiviral Expression Vector</b>
<b>Description</b>	<p>Lentivirus vector based on the human immunodeficiency virus-1 (HIV-1) has become a promising vector for gene transfer studies. Lentiviral vectors packaged as lentiviral particles is one of the most efficient tools to deliver exogenous genes into virtually any types of mammalian cells both in vitro and in vivo. The advantageous feature of lentivirus vector is the ability of gene transfer and integration into dividing and non-dividing cells, with low immune response and toxicity in vivo. These viruses also integrate stably into the host genome, enabling long-term transgene expression. Our third generation lentiviral systems have been designed for increased researcher safety.</p> <p>pLenti-SFFV-MCS-PGK-Puro Lentiviral Expression Vector contains the multiple cloning sites (MCS) driven by SFFV promoter. The multiple restriction enzyme sites are included for convenient cloning of gene of interest. Puromycin resistant gene driven by PGK promoter is useful for easy detection and selection of transfectants.</p>
<b>Catalog Number</b>	LV401
<b>Size</b>	10 µg at 0.5 µg/µL in TE
<b>Shipping</b>	Room temperature
<b>Storage and Stability</b>	Store at -20°C immediately upon receipt. This product is stable for 6 months when stored as directed.
<b>Quality Control</b>	This plasmid is sequence verified.
<b>Safety Precaution</b>	Remember that you will be working with samples containing infectious virus. Follow the recommended NIH guidelines for all materials containing BSL-2 organisms. The ALSTEM Lentiviral Expression System is designed to minimize the chance of generating replication-competent lentivirus, but precautions should still be taken to avoid direct contact with viral supernatants.
<b>Restricted Use</b>	For Research Use Only. Not for use in diagnostic or therapeutic procedures.



## **ALSTEM, INC**

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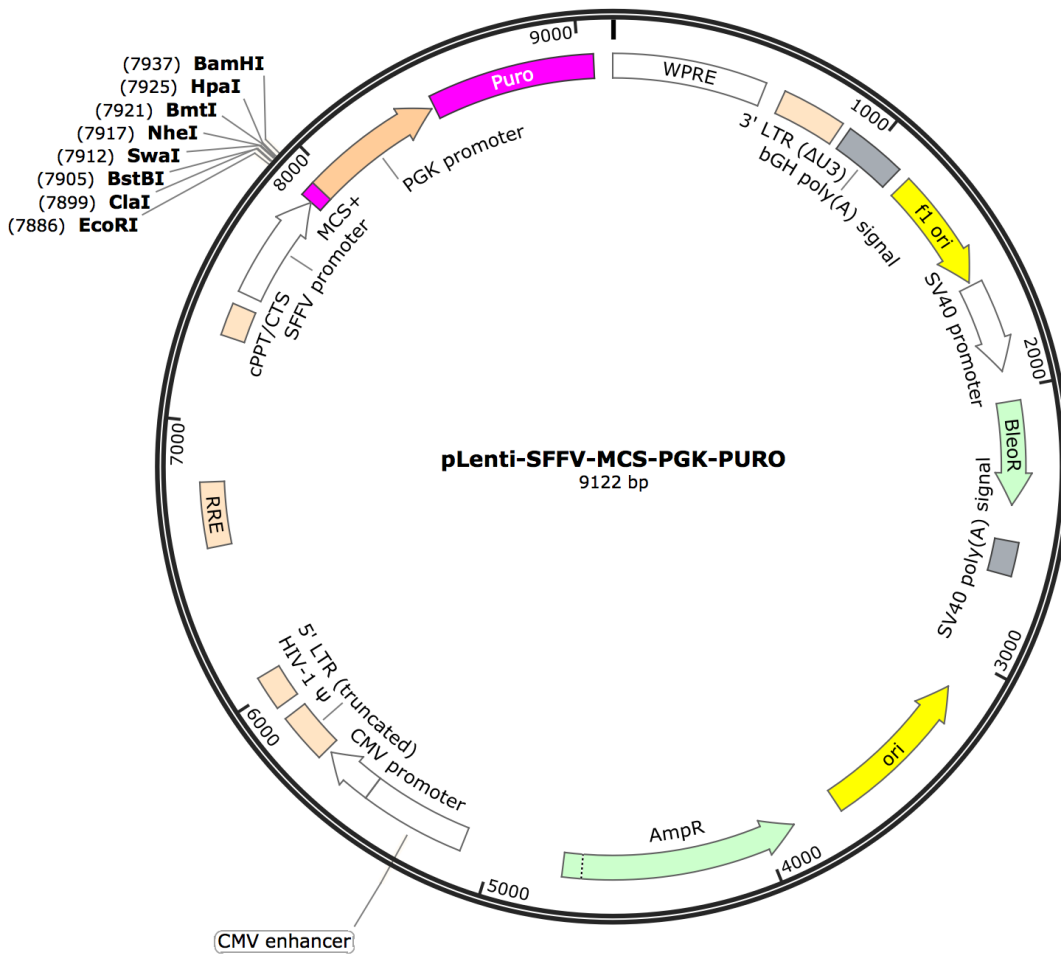
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## Vector Information

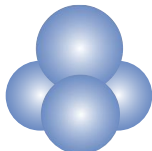
This lentiviral expression vector that contains all elements for efficient and high yield viral production. The multiple restriction enzyme sites driven by SFFV promoter are included for convenient cloning of the promoter of your choice and gene of interest. Puromycin resistant gene driven by PGK promoter is useful for easy detection and selection of transfectants.



*Note: Bacterial culture of pLenti vectors should be done in medium containing 100 µg/mL Ampicillin. For maximal plasmid yield and quality, we recommend Stbl3 competent cells (Invitrogen).*

### IMPORTANT NOTICE

Store the vial at -20°C immediately upon receipt.



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