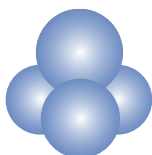


Product Specification Sheet

Product Name	pLenti-CMV-GFP-EF1α-RFP Lentiviral Reporter Plasmid
Description	<p>Lentivirus vector based on the human immunodeficiency virus-1 (HIV-1) has become a promising vector for gene transfer studies. The advantageous feature of lentivirus vector is the ability of gene transfer and integration into dividing and non-dividing cells. The pseudotyped envelope with vesicular stomatitis virus envelope G (VSV-G) protein broadens the target cell range. Lentiviral vectors have been shown to deliver genes to neurons, lymphocytes and macrophages, cell types that previous retrovirus vectors could not be used. Lentiviral vectors have also proven to be effective in transducing brain, liver, muscle, and retina in vivo without toxicity or immune responses. Recently, the lentivirus system is widely used to integrate siRNA efficiently in a wide variety of cell lines and primary cells both in vitro and in vivo. Lentivirus particles are produced from 293T cells through transient transfection of plasmids that encode for the components of the virion. Our third generation lentiviral systems have been designed for increased researcher safety. pLenti-CMV-GFP-EF1α-RFP Lentiviral Reporter Plasmid contains CMV promoter ahead of copGFP with tdTomato reporter driven by EF1α promoter. This dual reporter vector serves a positive control. The cells transduced by this vector should display both green and red fluorescence.</p>
Catalog Number	LR115
Size	10 μ g at 0.5 μ g/ μ L in TE
Shipping	Room temperature
Storage and Stability	Store at -20°C immediately upon receipt. This product is stable for 6 months when stored as directed.
Quality Control	This plasmid is sequence verified.
Safety Precaution	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.
Restricted Use	For Research Use Only. Not for use in diagnostic or therapeutic procedures.



ALSTEM, INC

2600 Hilltop Drive, BLDG B, STE C328, Richmond, CA 94806

Tel: (510) 708-0096

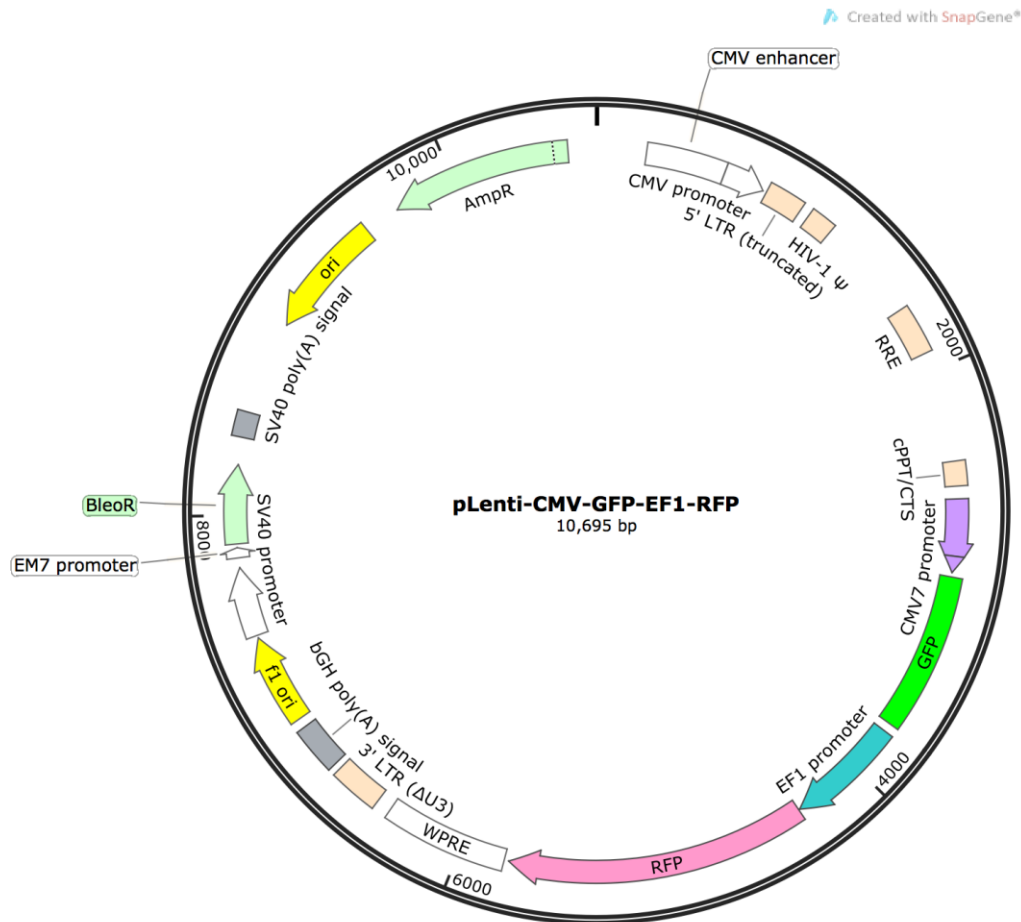
Fax: (866) 605-8766

www.alstembio.com

info@alstembio.com

Vector Information

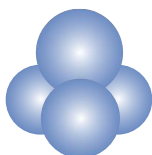
This is a control lentiviral expression vector that contains all elements for efficient and high yield viral production. Two fluorescent reporters (copGFP and tdTomator) that are driven by ubiquitous promoters CMV and EF1 α , respectively. The cells transduced by this vector should display both green and red fluorescence.



*Note: Bacterial culture of pLenti vectors should be done in medium containing **10 $\mu\text{g/mL}$** 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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