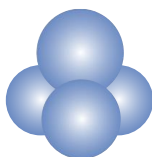


Product Specification Sheet

Product Name	pLenti-EF1-mCherry-T2A-Cre-PGK-PURO
Description	<p>The Cre/LoxP recombination system is a versatile and powerful tool for DNA manipulations such as deletions, insertions, translocations, and inversions at specific sites in the DNA of cells. The system uses Cre recombinase to recombine a pair of Lox sites. Depending on the direction and distance of the LoxP sites, DNA flanked by the LoxP sites can be deleted, inverted, or translocated.</p> <p>The mCherry-Cre Lentivirus Vector (pLenti-EF1-mCherry-T2A-Cre-PGK-PURO) expresses the mCherry and Cre and provides puromycin resistance to the cell receiving it. This lentivirus vector can be used for transient Cre expression and for stable cell line development. Robust Cre recombinase activity has been detected in stable transgenic cell lines that carry two loxP sites in the same direction in their transgenes. DNA deletion event was detected by PCR and validated by DNA sequencing.</p>
Catalog Number	CRE03
Size	10 µg at 0.5 µg/µL 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

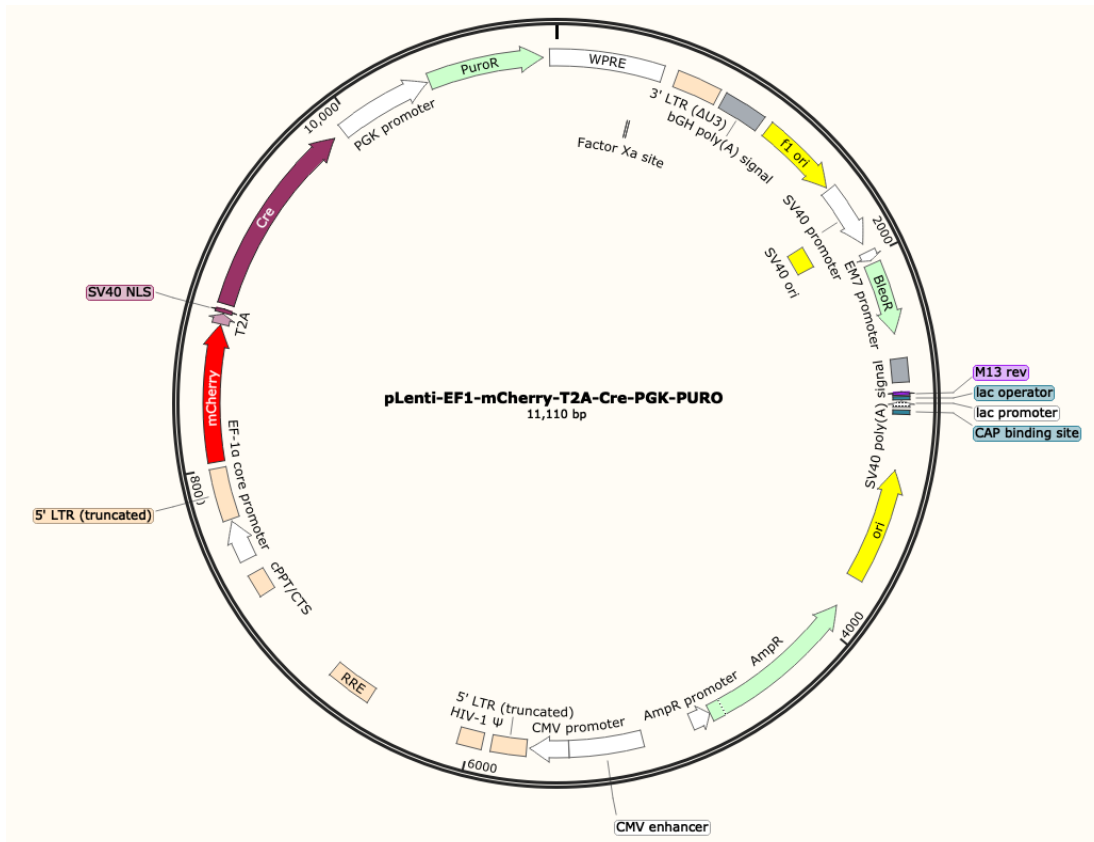
Fax: (866) 605-8766

www.alstembio.com

info@alstembio.com

Vector Information

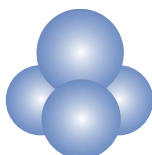
This is a lentiviral expression vector containing all elements for efficient and high yield viral production. A ubiquitous EF1 drives the expression of mCherry and Cre while PGK drives Puro to allow for selection of transduced cells. This vector can be used for transient Cre expression and stable cell line generation.



*Note: Bacterial culture of pLenti vectors should be done in medium containing **10 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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