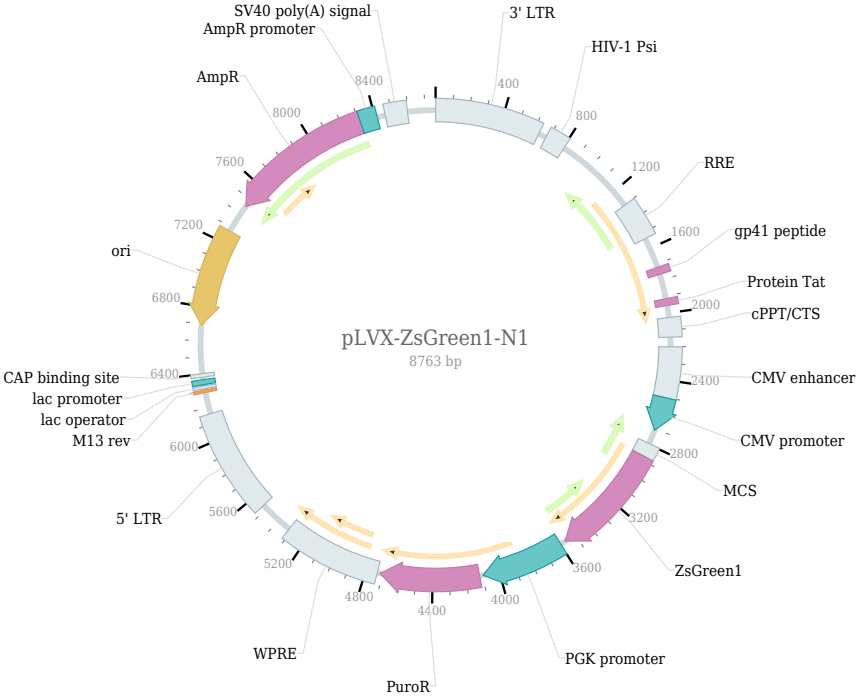
pLVX-ZsGreen1-N1

载体编号 Vector ID	V012711
抗性 Antibiotic Resistance	Ampicillin
长度 Length	8763 bp
载体类型 Vector Type	Viral Expression & Packaging Vectors

产品信息

复制子 Replication Origin	ori
来源 Source/Author	Clontech
筛选标记 Selection Marker	Puromycin
拷贝数 Copy Number	High copy number
启动子 Promoter	mPGK
融合标签 Fusion Tag	ZsGreen1
表达方式 Expression Method	Constiutive, Stable
备注 Comment	pLVX-ZsGreen1-N1 is an HIV-1-based, lentiviral expression vector that allows you to express your gene of interest fused to ZsGreen1, a variant of the wild-type Zoanthus sp. green fluorescent protein (1) that has been engineered for brighter fluorescence. Genes cloned into the multiple cloning site (MCS), located upstream of the ZsGreen1 coding sequence, are expressed as N-terminal ZsGreen1 fusion proteins. Expression of the fusion protein is driven by the constitutively active human cytomegalovirus immediate early promoter (PCMV IE), located just upstream of the MCS. Lentiviral particles derived from the vector allow the expression of ZsGreen1 fusion proteins in virtually any cell type, including primary cells. The unmodified vector expresses ZsGreen1, and may be used to produce marker virus to optimize infection protocols. pLVX-ZsGreen1-N1 contains all of the viral processing elements necessary for the production of replication-incompetent lentivirus, as well as elements to improve viral titer, transgene expression, and overall vector function. The woodchuck hepatitis virus posttranscriptional regulatory element (WPRE) promotes RNA processing events and enhances nuclear export of viral and transgene RNA (2), leading to increased viral titers from packaging cells, and enhanced expression of your gene of interest in target cells. In addition, the vector includes a Rev-response element (RRE), which further increases viral titers by enhancing the transport of unspliced viral RNA out of the nucleus (3). Finally, pLVX-ZsGreen1-N1 also contains a central polypurine tract/central termination sequence element (cPPT/CTS). During target cell infection, this element creates a central DNA flap that increases nuclear import of the viral genome, resulting in improved vector integration and more efficient transduction (4). In addition to lentiviral elements, pLVX-ZsGreen1-N1 contains a puromycin resistance gene (Puror) under the control of the murine phosphoglycerate kinase (PGK) promoter (PPGK) for the selection of stable transductants. The vector also contains a pUC origin of replication and an E. coli ampicillin resistance gene (Ampr) for propagation and selection in bacteria.

质粒图谱



复溶方法

1. Centrifuge at 5,000×g for 5 min.
2. Carefully open the tube and add sterile water to dissolve the DNA: add 20 µl for 5 µg plasmid, and 100 µl for 100 µg plasmid.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin to concentrate the liquid at the bottom. Speed is less than 5000×g.
5. Store the plasmid at -20 ℃.