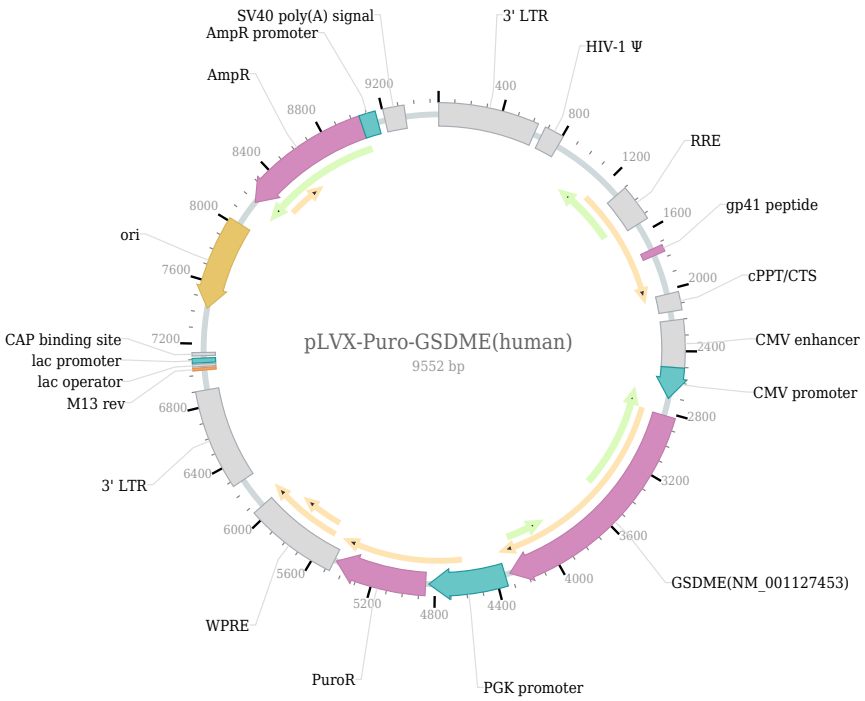
pLVX-Puro-GSDME(human)

Vector ID	V021510
Accession ID	NM_001127453.2
Antibiotic Resistance	Ampicillin
Length	9552 bp
Vector Type	Protein expression
Host	Mammalian cells, Lentivirus

Product Information

Replication Origin	ori
Selection Marker	Puro
Promoter	CMV
Growth Strain(s)	Stbl3
Expression Method	Constiutive, Stable / Transient
Comment	pLVX-Puro-GSDME(human) (9.6 kb) is a lentiviral vector for stable expression of human GSDME (Gasdermin E, also known as DFNA5) in mammalian cells. The CMV promoter drives expression of the full-length human GSDME coding sequence, while a downstream PGK promoter drives PuroR (puromycin resistance) for selection. Lentiviral elements include 5′/3′ LTRs, HIV-1 Ψ (packaging signal), RRE, cPPT/CTS, and WPRE for efficient transduction and high expression. The vector also carries AmpR for bacterial selection. GSDME is a pore-forming protein involved in pyroptosis and tumor immunity.

Vector Map



Plasmid Resuspension Protocol

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 ℃.