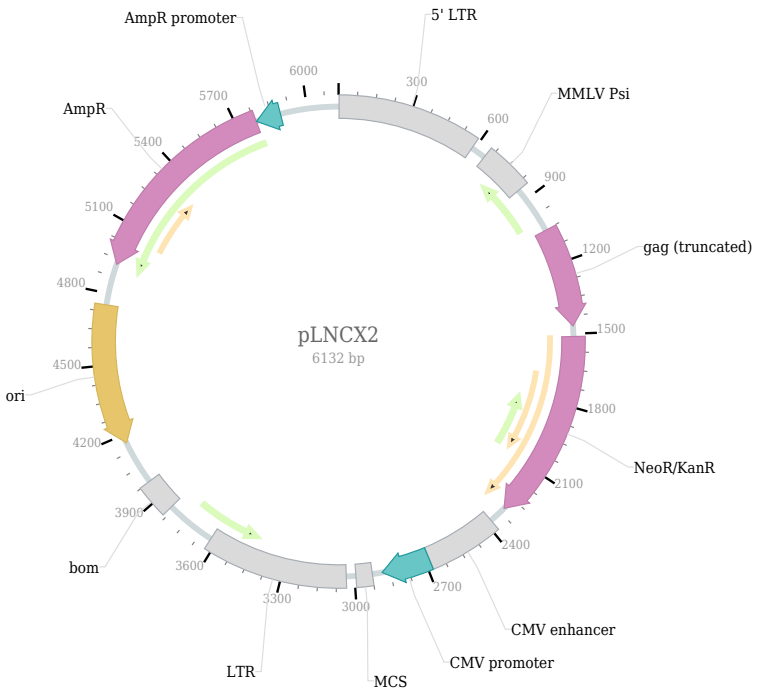
pLNCX2

Vector ID	V010446
Antibiotic Resistance	Ampicillin
Length	6132 bp
Vector Type	Viral Expression & Packaging Vectors

Product Information

Replication Origin	ori
Source/Author	Clontech
Selection Marker	Neomycin/G418(Geneticin)
Copy Number	High copy number
Promoter	CMV
Growth Strain(s)	Stbl3
Growth Temperature	37℃
Comment	pLNCX2 is a retroviral vector designed for stable gene expression in mammalian cells. It contains a neomycin resistance gene (neo) for antibiotic selection and a multiple cloning site (MCS) to insert target genes. The expression of inserted genes is driven by the retroviral LTR promoter or an optional internal promoter. This plasmid enables efficient gene delivery via retroviral transduction and integrates into the host genome for long-term expression. It's widely used in functional gene studies, generating stable cell lines, and investigating gene regulation. The LTRs flanking the cassette ensure proper viral packaging when co-transfected with helper plasmids.

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 ℃.