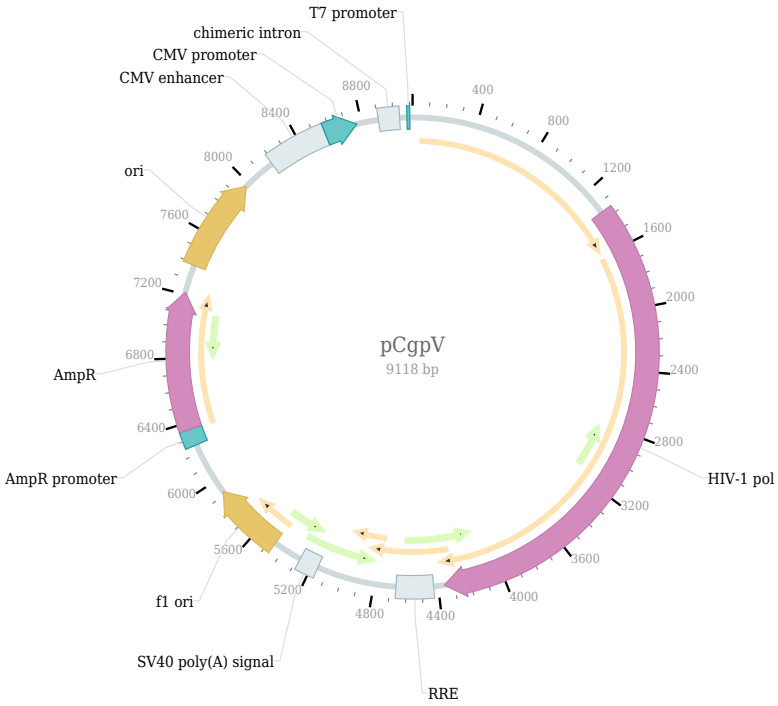
pCgpV

Vector ID	V001623
Antibiotic Resistance	Ampicillin
Length	9118 bp
Vector Type	Lentiviral vectors

Product Information

Replication Origin	ori
Copy Number	High copy number
Promoter	CMV
Cloning Method	Enzyme digestion and ligation
5' Primer	CMV-F□CGCAAATGGGCGGTAGGCGTG
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	pCgpV is a lentiviral packaging helper plasmid driven by the CMV promoter, which expresses HIV-1 gag-pol proteins. It carries ampicillin-resistance marker, HIV-1 Rev-response element (RRE) and adenovirus VA-RNA. It functions in a 4-plasmid third-generation lentivirus-packaging system together with pRSV-Rev, pCMV-VSV-G (envelope plasmid), and lentiviral transfer vector. For example, pCgpV can be co-transfected with pRSV-Rev, pCMV-VSV-G, and transfer vector pSIH1-H1-siLUC-copGFP into HEK-293T cells to generate GFP-labeled lentivirus for antiviral assays (Kim et al., Pharmaceuticals 13:266, 2020).

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 ℃.