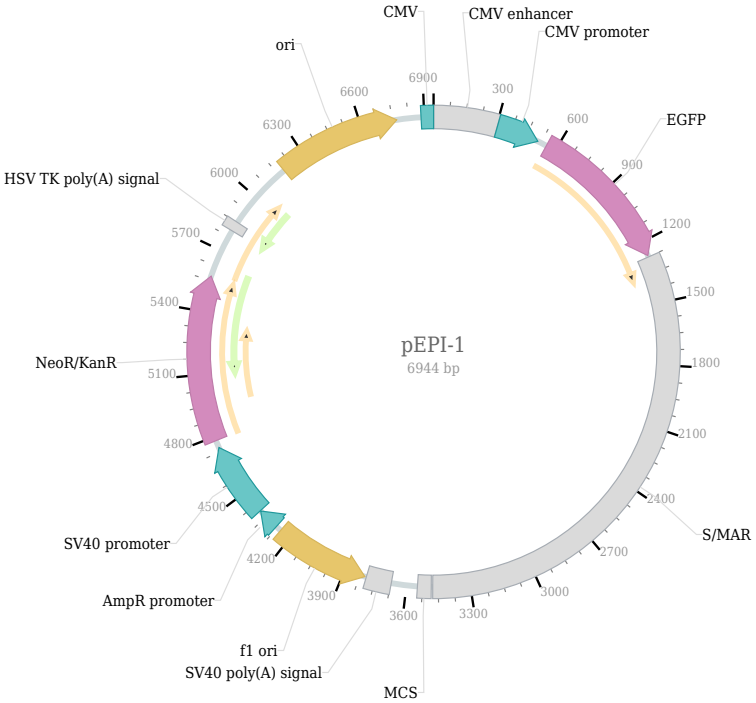
pEPI-1

Vector ID	V006530
Antibiotic Resistance	Kanamycin
Length	6944 bp
Vector Type	Cloning vector

Product Information

Replication Origin	ori
Source/Author	Zhang X, Wang XY, Jia YL, Guo X, Wang YF, Wang TY.
Copy Number	High copy number
Growth Strain(s)	DH10b
Growth Temperature	37℃
Comment	The pEPI-1 vector contains two mammalian transcription units and a total of 305 CpG islands, which are located predominantly within the vector elements necessary for bacterial propagation and known to be counterproductive for persistent long-term transgene expression. The episomal replication of vector pEPI-1 depends on a transcription unit starting from the constitutively expressed Cytomegalovirus immediate early promoter (CMV-IEP) and directed into a 2000 bp long matrix attachment region sequence (MARS) derived from the human β-interferon gene.

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 ℃.