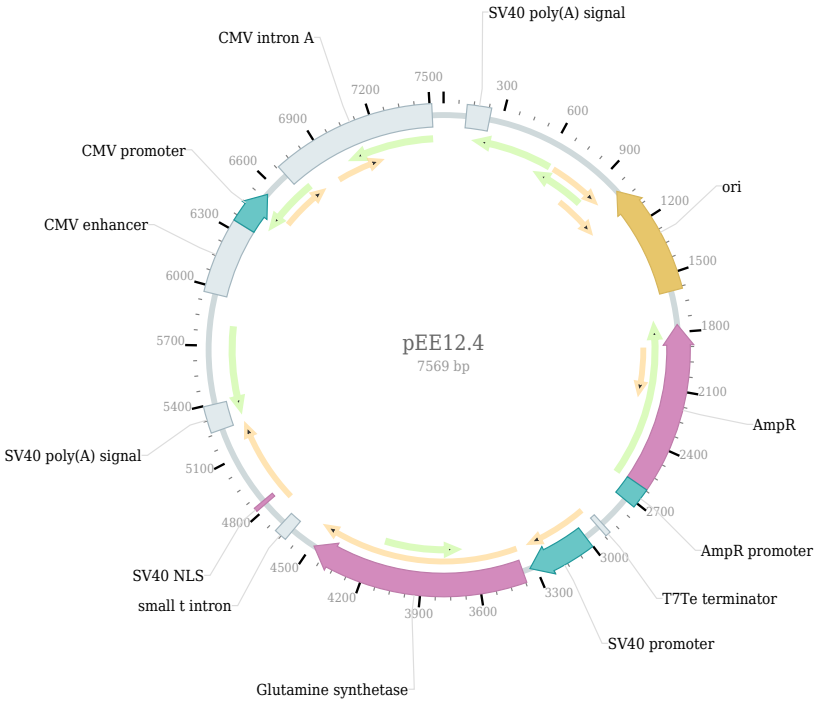
pEE12.4

Vector ID	V012681
Antibiotic Resistance	Ampicillin
Length	7569 bp
Vector Type	Mammalian Expression Vectors

Product Information

Replication Origin	ori
Source/Author	Lonza biologics
Selection Marker	GS(Glutamine Synthetase)
Copy Number	High copy number
Promoter	SV40
Cloning Method	Enzyme Cut
5' Primer	CMV fwd
Growth Strain(s)	DH10B
Expression Method	Constiutive, Stable
Comment	The pEE12.4 plasmid is a mammalian - expression vector with multiple functions. Firstly, it contains strong promoters like the CMV enhancer and promoter, enabling efficient and stable transcription of target genes inserted into its multiple - cloning sites in mammalian cells, thus facilitating protein production. Secondly, it is commonly used for antibody expression. By inserting genes encoding antibody heavy or light chains, stable antibody - expressing cell lines can be established. Thirdly, the glutamine synthetase (GS) selection marker on pEE12.4 allows for the selection of transfected cells. Under specific culture conditions with appropriate selection pressure, only cells that have successfully taken up the plasmid and express GS can survive and proliferate, helping to isolate and enrich cells of interest.

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 ℃.