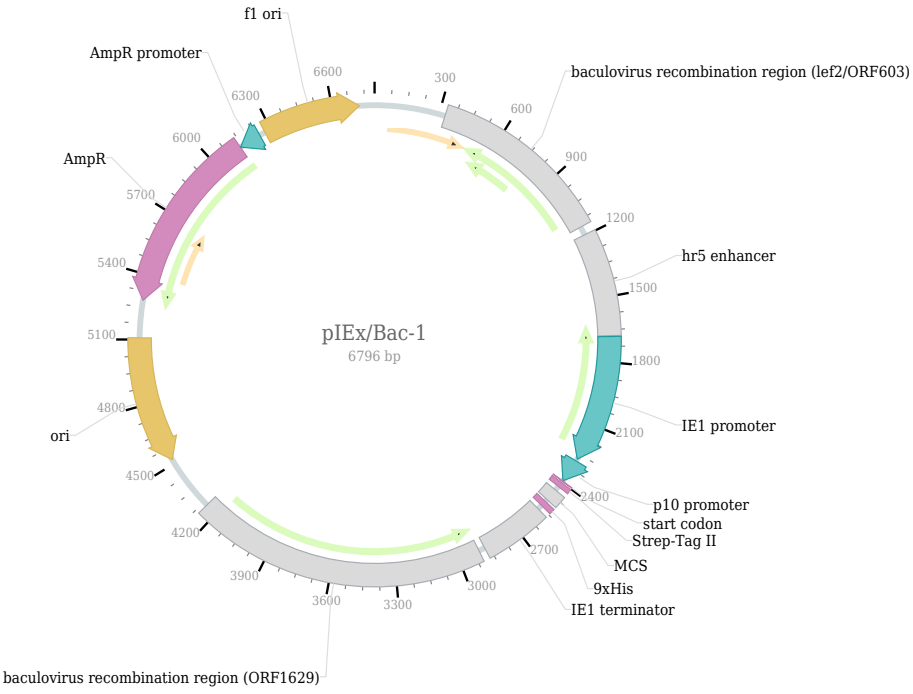
pIEx/Bac-1

Vector ID	V011638
Antibiotic Resistance	Ampicillin
Length	6796 bp
Vector Type	Insect Cell Vectors

Product Information

Replication Origin	ori
Source/Author	Novagen (EMD Millipore)
Copy Number	High copy number
Promoter	IE1
Cloning Method	Enzyme digestion and ligation
Fusion Tag	C-His,N-Strep
Growth Strain(s)	DH10B
Comment	The dual-purpose pIEx/Bac vectors are designed for cloning and high-level expression of proteins by transiently transfecting Spodoptera-derived insect cells or by generating baculovirus recombinants. Transient transfection and early baculovirus expression is driven by a promoter/enhancer combination that recruits endogenous insect cell transcription machinery, the AcNPV derived hr5 enhancer and ie1 promoter. Late/very late expression in the baculovirus mode is driven by the strong p10 promoter. The pIEx/Bac-1 vector carries an N-terminal Strep•Tag II coding sequence (1) followed by a recognition site for enterokinase.The multiple cloning region is followed by an optional C-terminal His•Tag coding sequence. The presence of two 'gentle elution' tags at both the N- and C-terminus is ideal for dual purification strategies designed to isolate full-length fusion proteins (2). Unique restriction sites are shown on the circle map.

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 ℃.