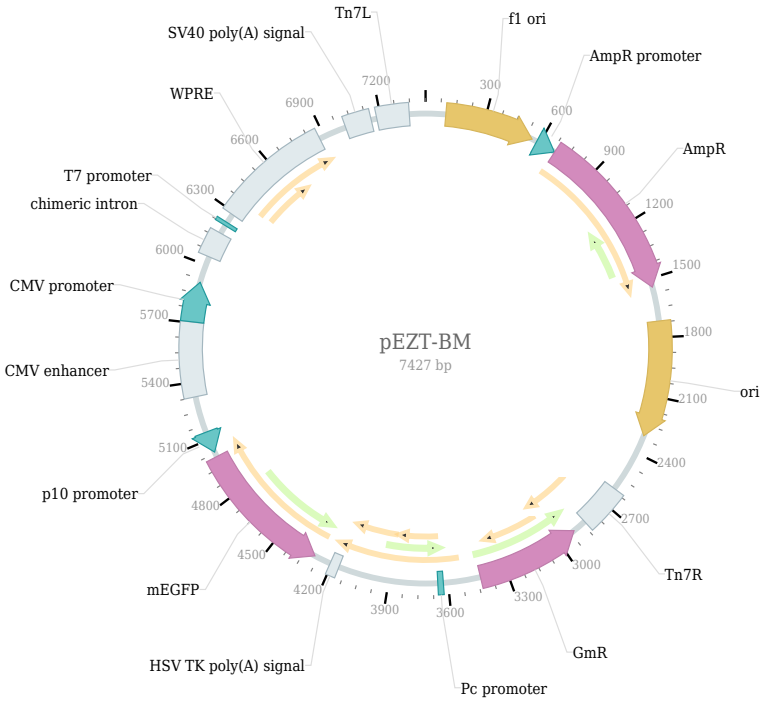
pEZT-BM

Vector ID	V016666
Antibiotic Resistance	Ampicillin
Length	7427 bp
Vector Type	Protein expression
Host	Mammalian cells, insect cells

Product Information

Replication Origin	ori
Promoter	CMV
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	pEZT-BM is a custom bacmam transfer vector reconstructed from the pFastBacDual backbone, engineered for bacmam virus generation and heteromeric membrane protein expression in mammalian cells. It features two opposing independent promoters: mammalian CMV for target subunit expression in HEK cells, and insect p10 driving GFP exclusively in Sf9 cells to enable rapid 48-hour bacmam viral titration. Unlike conventional baculovirus vectors, its bacmam-derived virions deliver transgenes to mammalian hosts without intracellular replication, allowing precise tuning of subunit stoichiometry via controlled viral MOI ratios. This all-in-one plasmid supports the full bac-to-bac workflow for bacmam production, small-scale transient transfection, and structural-grade protein purification of targets such as α4β2 nicotinic acetylcholine receptors.

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 ℃.