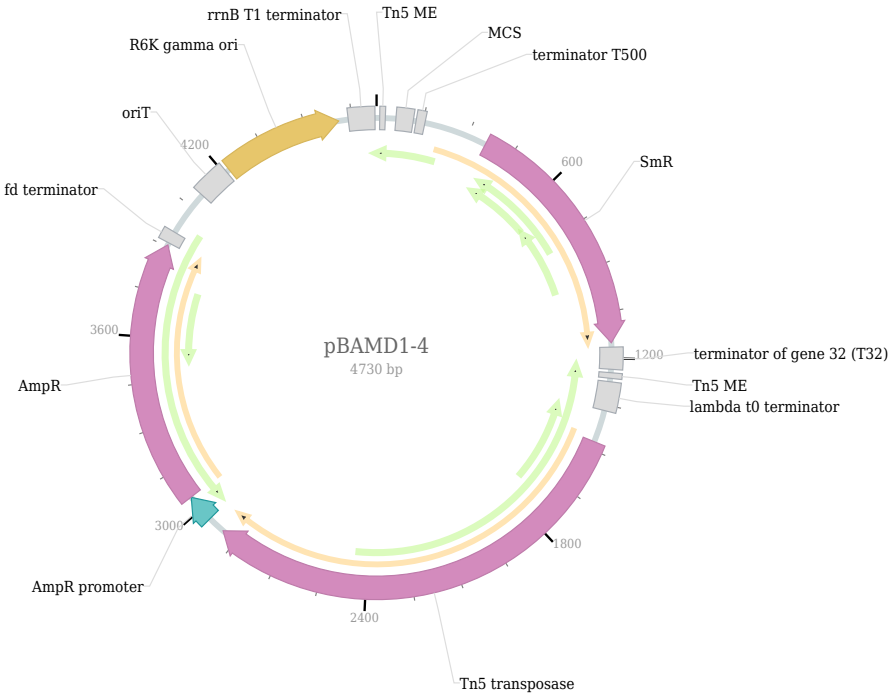
pBAMD1-4

Vector ID	V009282
Antibiotic Resistance	Ampicillin
Length	4730 bp
Vector Type	Cloning vector

Product Information

Replication Origin	R6K γ ori
Source/Author	Martinez-Garcia E, Aparicio T, de Lorenzo V, Nikel PI.
Growth Strain(s)	GT115
Comment	pBAMD1-4 is a SEVA-compliant mini-Tn5 suicide transposon vector (4730 bp) for Gram-negative bacterial genome engineering. It bears ampicillin resistance for maintenance in pir⁺ E. coli donors and streptomycin/spectinomycin resistance within the transposon cargo for recipient selection. Equipped with R6K ori, RP4 oriT, hyperactive TnpA transposase and a universal SEVA MCS, this vector mediates random, stable single-copy chromosomal insertion via conjugation. Owing to its unique Sm/Sp selection marker, it permits serial combinatorial genomic integrations alongside pBAMD1-2 (Km_r) and pBAMD1-6 (Gm_r), supporting saturated mutagenesis and fine-tuned heterologous pathway expression for metabolic engineering of microbial cell factories.

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 ℃.