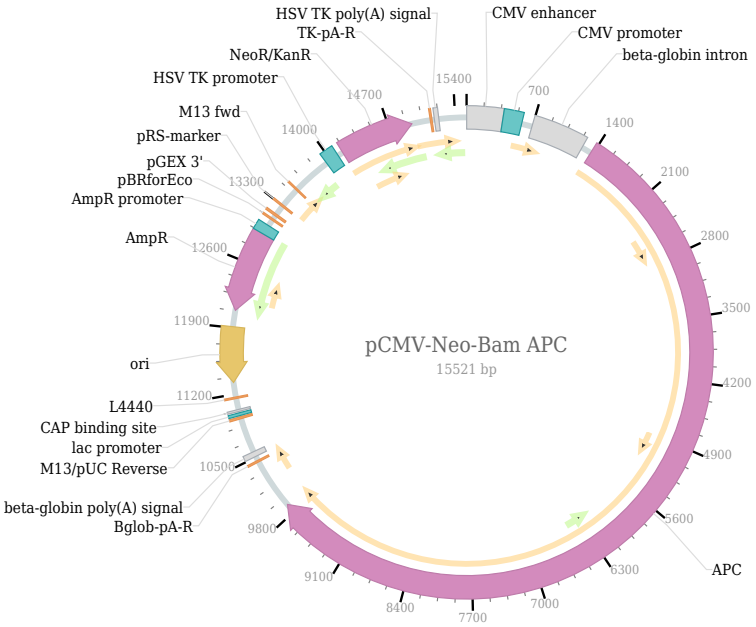
pCMV-Neo-Bam APC

Vector ID	V006653
Antibiotic Resistance	Ampicillin
Length	15521 bp
Vector Type	Mammalian Expression

Product Information

Replication Origin	ori
Selection Marker	Neomycin (select with G418)
Copy Number	Low Copy
Promoter	CMV
Cloning Method	Restriction Enzyme
5' Primer	Bglob-intron-F
3' Primer	Bglob-pA-R (5'-ttttggcagagggaaaaaga-3')
Comment	pCMV-Neo-Bam APC is a mammalian expression plasmid carrying full-length wild-type human APC cDNA under the CMV promoter. It bears a neomycin resistance cassette for G418 selection of stable cell lines and an ampicillin marker for bacterial amplification. Developed by Vogelstein's lab, it was used in the landmark 1997 Science study to restore APC function in colon cancer cells with defective endogenous APC. Researchers apply this vector to assay β-catenin/Tcf-mediated Wnt transcriptional repression and compare against truncated APC mutant constructs sharing the same backbone.

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 ℃.