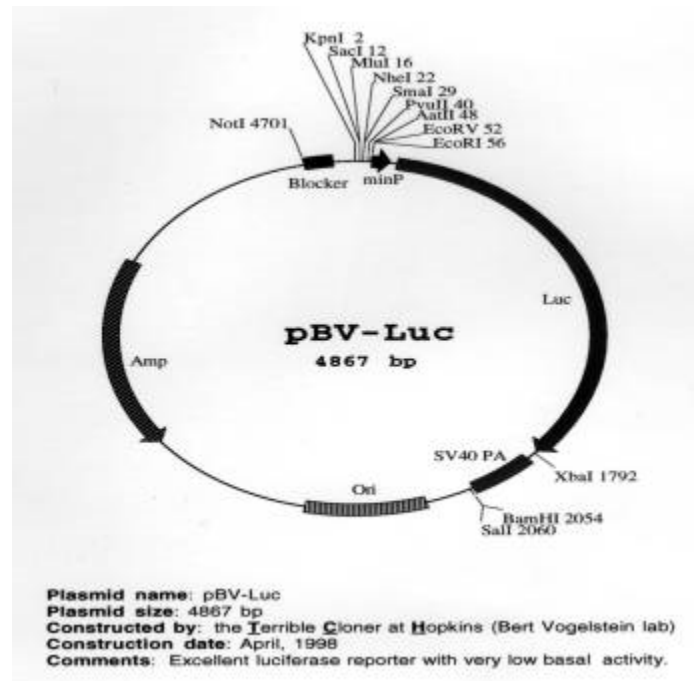


Construction of Luciferase Reporters Using pBV-Luc

T.-C. He, Tuesday, December 8, 1998

Plasmid pBV-Luc, the best vector for luciferase reporter assay, was created by a collective effort from the Molecular Genetics Laboratory of the Johns Hopkins Oncology Center in April, 1998. The vector features a transcription blocker and convenient multiple cloning sites upstream a minimal promoter. As a result, the basal luciferase activity is extremely low in all tested cell lines, including 293, and most commonly used colon cancer cell lines.



Primers for PCR screening and/or sequencing:

BVLUCFWD: 5'-TCC CCA GTG CAA GTG CAG GTG C-3'

BVLUCREV: 5'-CTT AGA TCG CAG ATC TCG ATA C-3'

Sequence information around the linker site:

Forward primer

5'-AAAACAACTAGCAAATAGGCTGTCCCAGTGCAAGTGCAGGTGCCAGAACATTTCTCTATCG
KpnI EcoRI
ATAGGTACCGAGCTCTTACGCGTGCTAGCCCGGGCTCGACAGCTGGACGTGATATCGAATTCGG
P-minimal Reverse primer
GTATATAATGGATCCGGTATCGAGATCTGCGATCTAAGTAAGCTTGGCATTCCGGTACTGTTGGTA
Luciferase
AAGCCACC ATG GAA GAC GCC AAA-3'