pBABE–Puro Retroviral Vector

CATALOG NUMBER: RTV-001-PURO  STORAGE: -20ºC

QUANTITY AND CONCENTRATION: 10 µg at 0.5 µg/µL in TE

Background
Retroviruses are efficient tools for delivering heritable genes into the genome of dividing cells. Cell Biolabs’ retrovirus vector is based on the pBABE vector system, which is derived from Moloney murine leukemia virus (MMLV). The vector provides the viral package signal, transcription and processing elements, and a target gene. The viral env gene, produced by the package cell line, encodes the envelope protein, which determines the viral infectivity range. Transfection into a package cell line produces high-titer, replication-incompetent viruses. In addition to transfer and expression of exogenous genes in mammalian cells, recently, retroviruses are used to express silencing RNAs (siRNA) to decrease the expression of target genes both in vitro and in vivo.

The vector contains the bacterial origin of replication, ampicillin-resistance gene, and puromycin-resistance gene for the growth of infected mammalian cells to select stable cell lines (Figure 1).

Figure 1. pBABE-Puro Retroviral Vector Map
Safety Consideration

Remember that you will be working with samples containing infectious virus. Follow the recommended NIH guidelines for all materials containing BSL-2 organisms. Always wear gloves, use filtered tips and work under a biosafety hood.

References


Recent Product Citations


Warranty
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