O.D.260 Inc.

Product Information

pAd328

Research use only

Catalog No: OP-01
Lot No: 0710

Contents:
pAd328 plasmid DNA, *Sfi*I-digested, 10 reactions (20 μL, 0.25 μg/μL in TE pH 7.5)

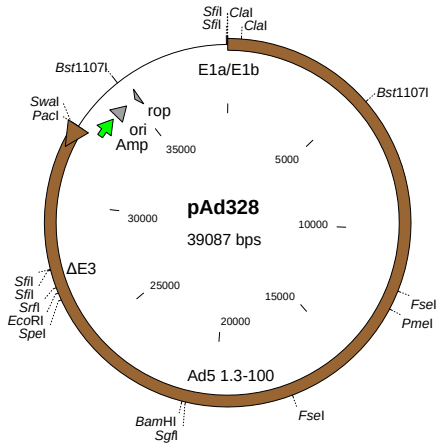
Storage: -20°C

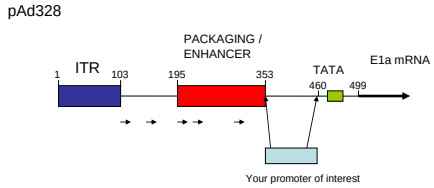
Features and Applications:
pAd328 is a 39 kb plasmid that contains the sequences encompassing bp 466-right end (1.3–100 mu) of the Ad5 genome, with a 2.7 kb deletion in the E3 region. The two *Sfi*I sites naturally present in WT Ad5 DNA were mutated by substituting A for G and C at positions 16291 and 16294 in the Ad5 genome, and C and G for respectively G and C at positions 23001 and 23004 in the Ad5 genome, introducing silent mutations in the adenovirus pVII and DNA-binding protein coding sequences. Two pairs of *Sfi*I sites that allow for directional cloning replace the E1 promoter and the E3 region. The right ITR is flanked by *Pac*I and *Swa*I sites. pAd328 is used in combination with the shuttle vectors pE1.2 and pE3.1 to construct conditionally replicative adenoviruses (CrAds) containing a heterologous promoter in front of the E1a TATA box, and a transgene in place of the E3 region. The maximum combined promoter/transgene capacity is 4.4 kb.

The most efficient method to insert heterologous promoters in front of the E1a region and expression cassettes in place of the E3 region of pAd328 is via DNA packaging into λ phage particles, and subsequent *E. coli* infection. Please download the manual for detailed instructions (http://www.od260.com/resources.manuals.php).

Selection:
prokaryotic – ampicillin 50 μg/mL
Replication:
prokaryotic – pBR322 ori

Map:





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