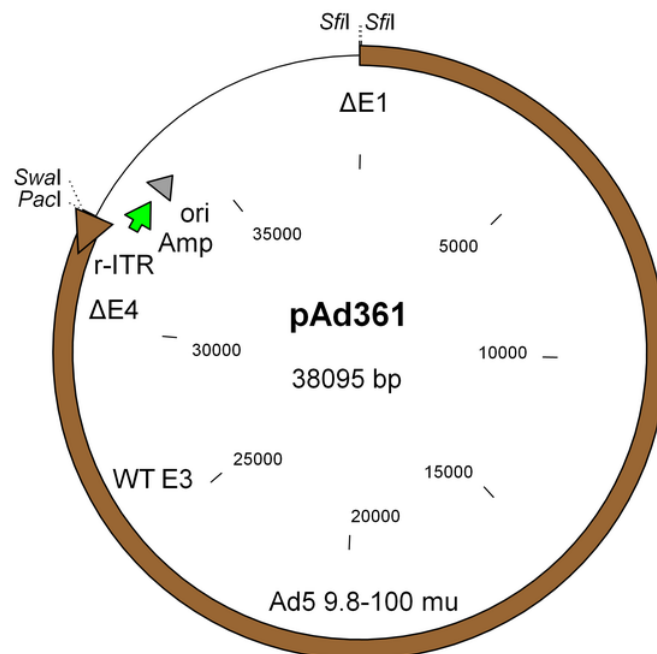


pAd361

pAd361 is a 38.1 kb AdenoQuick plasmid that contains the sequence encompassing bp 3504-right end (9.8–100 mu) of the Ad5 genome. The two *SfiI* 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 *SfiI* sites that allow for directional cloning replace the E1 region. The E3 region is intact. The E4 region contains a 1.2 kb deletion that encompasses ORF 1-4, and corresponds to bp 34119-35355 in the WT Ad5 genome. The right ITR is flanked by *PacI* and *SwaI* sites. pAd361 is used in combination with shuttle plasmid pE1.1 to construct E1/E4-deleted replication-deficient adenoviruses containing transgenes in place of the E1 region. These recombinant adenoviruses are able to grow in 293 cells without E4 transcomplementation. Their maximum cargo capacity is 6.2 kb.



Sequence

[PAD361.TXT \(38.4 KB\)](#)