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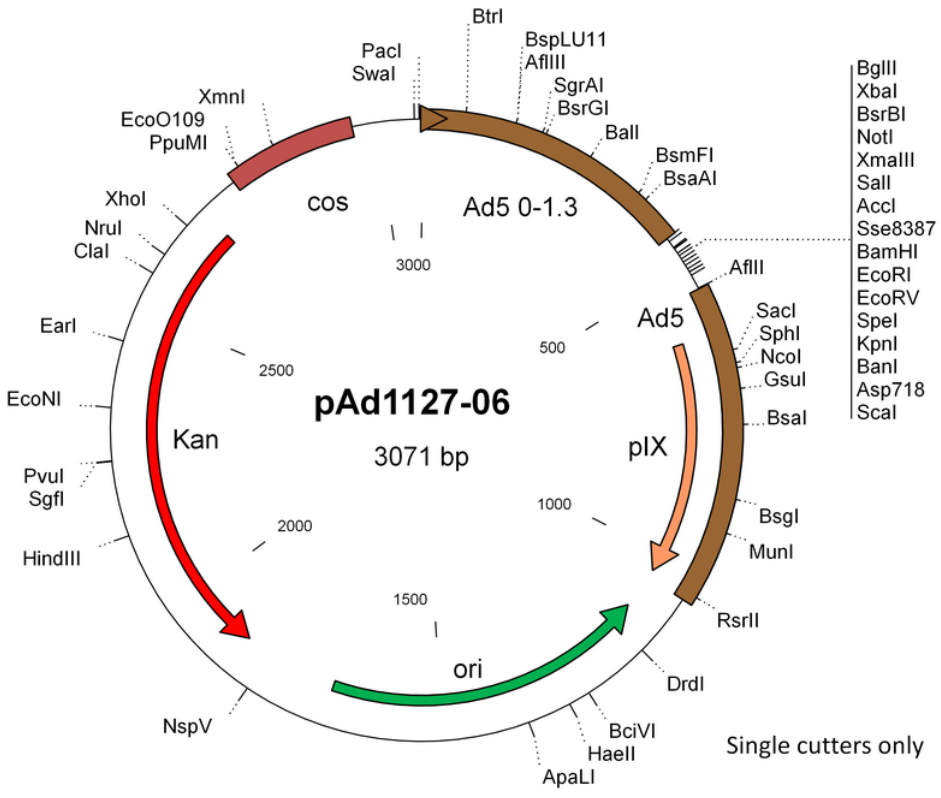
pAd1127-06

pAd1127-06 is a plasmid designed for inserting expression cassettes in place of the E1 region of the Ad5 genome and to manipulate the pIX promoter and coding region. It contains *Pac*I and *Swa*I sites flanking the first 440 base pairs from the Ad5 genome (including the left ITR and packaging signal), a multiple cloning site, and the pIX coding region. Expression cassettes inserted into the multiple cloning site should contain a promoter, coding sequence and a polyA signal. The sequences encompassing the kanamycin-resistance gene, the ? cos site, the adenovirus 0-1.3 map units, the multiple cloning site and the pIX coding sequence are flanked by two *Sfi*I restriction sites. These sites generate non-symmetrical sticky ends suitable for directional cloning with the other AdenoQuick2.0 plasmids (pAd1128, pAd1129, pAd1130, and their derivatives). pAd1127-06 is a derivative of pAd1127-02, in which the packaging signal has been extended from psn 350 to psn 440 (in the Ad5 genome), to include all 7 packaging "A" repeats (I, II, III, IV, V, VI, and VII). The complete packaging signal region might confer a growth advantage to the virus, according to Youil *et al* (Human Gene Therapy 14: 1017-1034). Because of the size of the E1 deletion (440-3510), the vectors generated from pAd1127-06 have minimal or no homology with the Ad5 sequences inserted in the chromosome of the helper cells such as PER-C6, thereby minimizing the probability of RCA generation.

The adenovirus sequences contained in pAd1127-06 have been verified by sequencing.



Info Sheet	Sequence	Annotations
Product_Informa...d1127-06.pdf (227.8 KB)	pAd1127-06.txt (3.1 KB)	pAd1127-06.gb (8.1 KB)