

AdenoQuick13.1

36,713 base pairs
Sequence available at virus@od260.com

<p>AdenoQuick13.1 is a 36.7 kb plasmid that contains the sequences encompassing bp 3504-right end (9.8-100 mu) of the Ad5 genome. The two <i>SfiI</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 <i>SfiI</i> sites that allow for directional cloning replace the E1 and E3 regions. The size of the E3 region deletion is 2.7 kb. The right ITR is flanked by <i>PacI</i> and <i>SwaI</i> sites. AdenoQuick13.1 is used in combination with the shuttle vectors pE1.2 and pE3.1 to construct bipartite replication-deficient adenoviruses containing transgenes in place of the E1 and E3 regions. The maximum combined transgene capacity is 7.7 kb</p>	Feature	Coordinates	Source
	9.8-100 mu	43-29,855	Ad5
	Right ITR	29,753-29,855	Ad5
	origin of replication	31,037-31,625	pUC19
	Amp ^r	30,006-30,866	<i>Tn3</i>

