

Aldevron pALD-X80 for rAAV Production



Reducing timelines and cost for gene therapy manufacturing

Aldevron's pALD-X80 is designed to reduce the timelines of AAV manufacturing and subsequent gene therapy applications, while helping you more easily meet regulatory requirements.

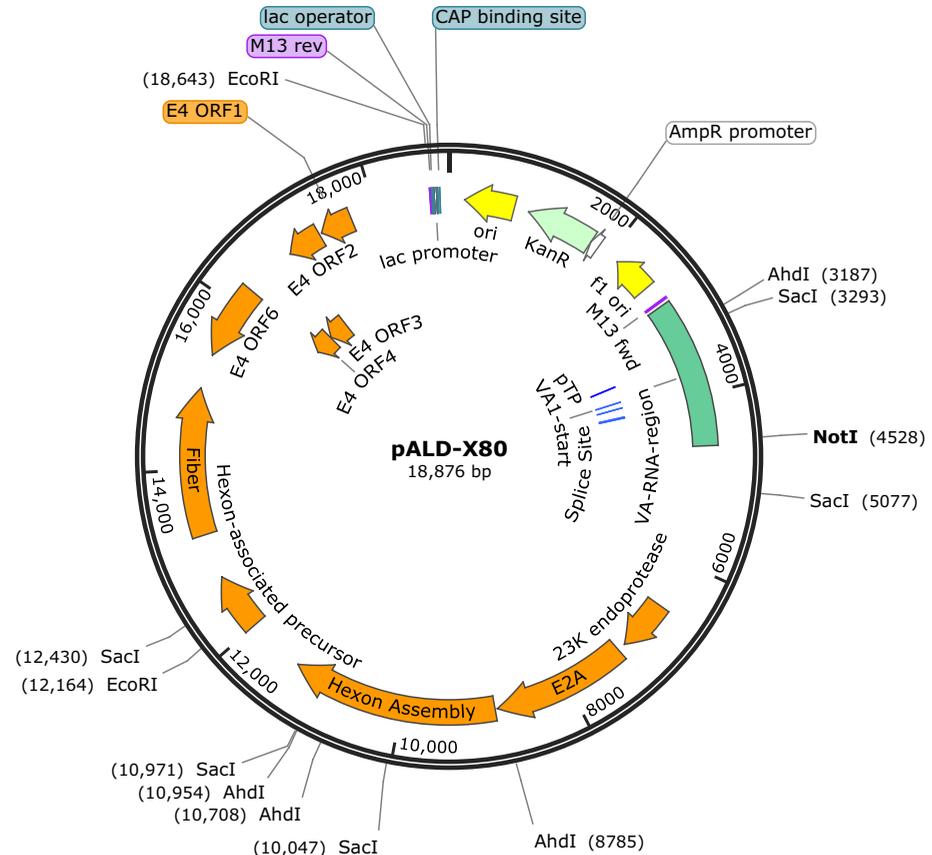
Based on the widely used pXX6-80 rAAV helper plasmid, pALD-X80 is available as an off-the-shelf catalog item. Available in research, GMP-Source™ and GMP quality grades, it's designed to meet your specific project requirements and development stage.

Solutions from early research through commercial development

AAV manufacturing has traditionally required unique custom batches of helper plasmids. This can be expensive and time-consuming. Also, older helper plasmid versions often contain antibiotic sequences that are increasingly unacceptable to regulatory agencies. These issues are addressed with pALD-X80, which is immediately available royalty-free.

Advantages of using pALD-X80 include:

- No need to manufacture custom batches of the helper plasmid
- Kanamycin resistance, a more acceptable alternative for regulatory agencies compared with ampicillin
- Off-the-shelf availability



pALD-X80 Research Grade Quality Specifications

	Method	Specifications
Appearance	Visual inspection	Clear and colorless
Concentration	UV Spectrophotometry	1 mg/mL +/- 10%
DNA Homogeneity	Densitometry analysis of EtBr stained AGE	> 80% supercoiled
Endotoxin	Kinetic Turbidimetric LAL	< 100 EU/mg
Plasmid Digest	EtBr stained agarose gel electrophoresis	Co-migrates with client reference DNA or size confirmed versus a supercoiled marker
Plasmid Sequence	Sequencing	Identical to client-supplied reference sequence
Purity Based on 260/280 Absorbance Ratio	UV spectrophotometry	1.80 - 2.00
Residual Host Genomic DNA	EtBr stained agarose gel electrophoresis	< 5%
Residual Host Genomic DNA	Quantitative PCR	< 5%
Residual Host Protein	Micro BCA	< 2%
Residual Host RNA	SYBRGold stained agarose gel electrophoresis	< 1% by semiquantitative densitometry
Restriction Digest	EtBr stained agarose gel electrophoresis	Matches expected restriction pattern or client-supplied reference material with expected bands greater than 50% of the total DNA present: BglI, SmaI: 7689 + 4167 + 2633 + 1863 + 1613 + 741 + 170, 7429
Sterility	USP <71> Direct Inoculation	Sterile

Get a sequence file or contact us for more information at www.aldevron.com/pald-x80



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