

1. Product Information

Product name	pBM-AAV1
Catalog Nr.	101-01-RUO / 101-05-RUO / 101-10-RUO
Quality grade	Research use only (RUO)
Description	DNA plasmid encoding Rep2/Cap1 genes of adeno-associated virus (AAV), intended for preparation of AAV particles of serotype 1
Plasmid Size	6 107 bp
Molecular weight	3 773 kDa
Concentration	1.0 ± 0.2 mg/mL solution in buffer (frozen)
Storage buffer	10 mM Tris-HCl, 1 mM EDTA, pH 8.0 (TE buffer)
Storage temperature	-20 ± 5 °C
Lot. Nr.	Specified on product label
Use by date	Specified on product label
Manufacturer	Biomay AG, Ada-Lovelace-Straße 2; 1220 Vienna, Austria; www.biomay.com ; info@biomay.com

2. Description

AAV Rep/Cap plasmid encoding p5 promoter and Rep genes of AAV serotype 2 (NCBI Reference: NC_001401.2) and Cap gene from AAV serotype 1 (NCBI-Reference: NC_002077.1). The plasmid was propagated by cultivation in *Escherichia coli*, purified by chromatographic methods, 0.2 µm filtered and filled as low bioburden product. Sequence information as .gb or .fasta-file can be provided upon request.

3. Intended Use / Application

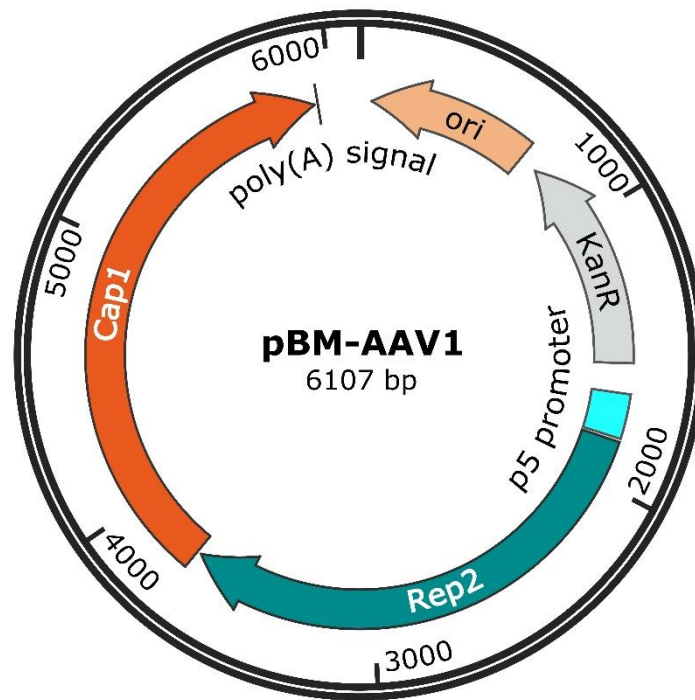
Research use only: product is a DNA plasmid that has been manufactured and analytically tested under laboratory conditions. It was designed and is intended to be used in conjunction with an adenoviral (Av) helper plasmid and an AAV transgene plasmid to transfect HEK293 cells, in order to manufacture adeno-associated virus (AAV) particles. Said AAV particles can be used as eukaryotic gene transfer vectors in research and development.

The material is intended for research and development use only. The material may not be used in humans, neither directly (as plasmid) nor indirectly (as AAV particles made therewith).

4. Safety information

Material is considered non-infectious, non-toxic and non-pathogenic under the conditions of the intended applications. General safety procedures should still be followed to maintain a safe working environment. Always wear appropriate personal protective equipment (PPE), including lab coats, gloves, and safety glasses, to avoid contamination and accidental exposure. Work in a clean, organized space, and handle reagents with care, avoiding direct contact. Dispose of all waste materials, including gloves and pipette tips, in designated biohazard containers, even though the plasmid DNA is non-hazardous, to prevent cross-contamination. Always wash hands after handling any biological material and before leaving the lab.

5. Plasmid Map



6. Testing Specifications

Parameter	Method	Specification <i>Research-grade</i>
Appearance	Visual inspection	Clear and colourless solution; free from visible particulates
pH value	pH measurement	8.0 ± 0.5
pDNA homogeneity (% supercoiled)	Anion exchange HPLC	> 85 % supercoiled
DNA concentration	UV spectrophotometry (A ₂₆₀)	1.0 ± 0.2 mg / mL
Purity based on A ₂₆₀ /A ₂₈₀ ratio	UV spectrophotometry (ratio A ₂₆₀ /A ₂₈₀)	1.8 – 2.1
Identity / Integrity	Restriction digest & agarose gel electrophoresis	Major bands conform to theoretical fragments (expected band pattern)
pDNA sequence	DNA sequencing (complete sequence)	Conforms to reference sequence
Residual host cell DNA	qPCR	< 1.0 % (< 10 µg / mg DNA)
Residual host cell RNA	Fluorometry	< 2.0 % (< 20 µg / mg DNA)
Residual host cell protein	Colorimetry	< 1.0 % (< 10 µg / mg DNA)
Endotoxin	Kinetic chromogenic LAL test (Ph. Eur. 2.6.14 / USP <85>)	≤ 5.0 EU / mg DNA
Bioburden	Testing for bacteria, yeasts & moulds (Ph.Eur.2.6.12/USP <61>)	< 1 cfu / mL