

1. Product Information

Product name	pBM-LV-VSVG
Catalog Nr.	120-01-RUO (1 mg) / 120-05-RUO (5 mg) / 120-10-RUO (10 mg)
Quality grade	Research use only (RUO)
Description	DNA plasmid encoding the glycoprotein of vesicular stomatitis virus (VSV-G), intended for preparation of lentiviral particles
Plasmid Size	4 661 bp
Molecular weight	2 879 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

Lentiviral envelope plasmid encoding the glycoprotein of vesicular stomatitis virus (VSV-G) (NCBI Reference: FJ478454.1) under control of the CMV promoter (NCBI Reference: GU937742.2) and . The plasmid can be used as envelope plasmid in 2nd and 3rd generation lentiviral systems. 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 combination with one or more lentiviral (LV) packaging plasmid(s) (depending on the lentiviral system) and a transgene plasmid to transfect HEK293 cells, in order to manufacture lentiviral vector (LV) particles. Said LV particles can be used as eukaryotic gene transfer vectors in research and development.

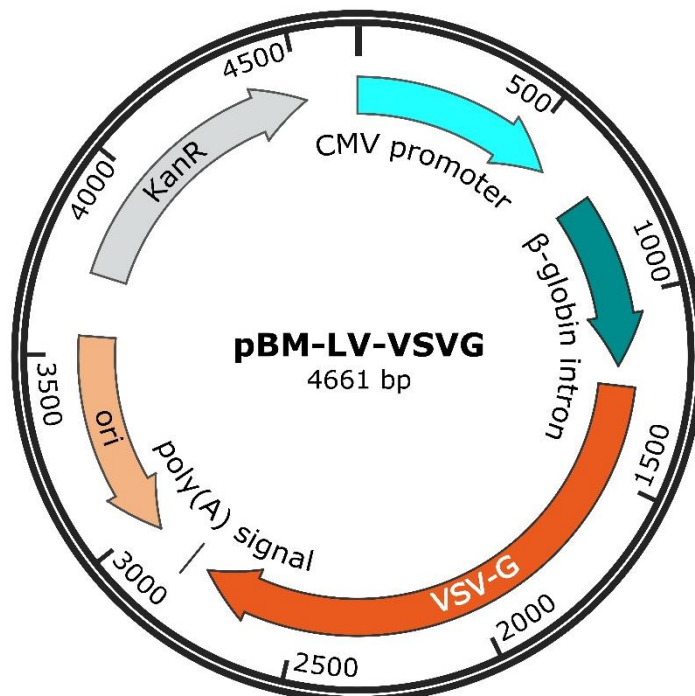
The material is intended for research and development use only. The material may not be used in humans, neither directly (as plasmid) nor indirectly (as LV particles made therewith).

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

Parameter	Method	Specification <i>Research-grade</i>
Bioburden	Testing for bacteria, yeasts & moulds (Ph.Eur.2.6.12/USP <61>)	< 1 cfu / mL