

pLVx-mTSPAN4-GFP

pLVX lentiviral expression vector
plasmid

PLM002

Instruction manual

Migrasome Therapeutics (Beijing) Co., Ltd.

pLvX-mTSPAN4-GFP

pLVX lentiviral expression vector plasmid

Catalog number	Pack size
PLM002	4 µg

This product is designed for scientific research and is not intended for clinical diagnosis. Read the detailed risk and liability statement in this manual carefully before using the product.

Product information

Property	Specification
Plasmid name	pLvX-mTSPAN4-GFP
Plasmid length	9448 bp
Plasmid type	pLVX lentiviral expression vector plasmid
Bacterial antibiotic resistance	Ampicillin
Mammalian cell selection marker	Puromycin resistance
Solvent	Water
Concentration	See the label.

Product contents

Component	PLM002
pLv _x expression plasmid containing the mouse TSPAN4 ORF cDNA with a C-terminal GFP tag	4 µg
Instruction manual	1 copy

Storage and shipping

Ship at 2–8 °C with ice packs. Store the plasmid at –20 °C upon receipt. Shelf life: 12 months.

Recommended user-supplied reagents

1. Sterile 1× PBS.
2. Complete culture medium suitable for the cells to be transfected.
3. Suggested transfection reagent for readily transfected cells, such as 293T cells:
linear PEI transfection reagent (quick-dissolving), MW 40000 (Yeasten, Cat. No. 40816ES02).
4. Suggested transfection reagent for cells that are less readily transfected:
Lipofectamine 3000 (Invitrogen, Cat. No. L3000015).
5. Opti-MEM (Gibco, Cat. No. 31985062).

Recommended reagents and methods for plasmid transfection

PEI transfection

For readily transfected cells, such as 293T cells.

For the basic procedure and precautions, refer to the instructions for linear PEI transfection reagent (quick-dissolving), MW 40000 (Yeasten, Cat. No. 40816ES02).

Example procedure

Day 1

a) Seed a 6-well plate at 5×10^5 to 6×10^5 cells per well.

Day 2

b) In tube A, combine 125 μ L Opti-MEM (Gibco, Cat. No. 31985062) with 4–5 μ g plasmid DNA. If using multiple plasmids, use a total of 4–5 μ g.

c) In tube B, combine 125 μ L Opti-MEM with 8–10 μ L PEI 40000.

d) Combine tubes A and B, mix, and let stand at room temperature for 10 min.

e) Slowly add the transfection mixture to the cells.

Lipofectamine 3000 transfection

For cells that are less readily transfected, such as tumor cells.

For the basic procedure and precautions, refer to the instructions for Lipofectamine 3000 (Invitrogen, Cat. No. L3000015).

Example procedure

Day 1

a) Seed a 6-well plate at 5×10^5 to 6×10^5 cells per well. Ensure that the cells reach 70–90% confluence the next day.

Day 2

b) In tube A, combine 125 μ L Opti-MEM (Gibco, Cat. No. 31985062) with 7.5 μ L Lipofectamine 3000.

c) In tube B, combine 125 μ L Opti-MEM with 4–5 μ g plasmid DNA and 5 μ L P3000.

d) Mix tubes A and B separately. Slowly add the contents of tube B dropwise to tube A and mix. Let stand at room temperature for 10 min.

e) Slowly add the transfection mixture to the cells.

Plasmid map



Plasmid map of pLvx-mTSPAN4-GFP (9448 bp).

Important risk and liability statement

This product is for research use only and has been designed and manufactured in accordance with the standards and regulations applicable to research reagents. Read this manual carefully before use. You must comply with all applicable biosafety, legal, ethical, and privacy requirements, including but not limited to the following:

1. **Compliance:** This product must not be used for clinical diagnosis, treatment, or any other medical purpose.
2. **Biosafety:** Take appropriate biosafety measures to avoid the risk of infection and strictly follow procedures for handling and storing biohazardous materials.
3. **Ethics and privacy:** Sample collection must comply with all relevant ethical review requirements, protect personal privacy, and be covered by the required informed consent.
4. **Cross-contamination:** Follow this manual to prevent sample cross-contamination and ensure the accuracy of experimental results.
5. **Storage and stability:** Store this product correctly to maintain its stability and effectiveness. Improper storage may reduce product performance.
6. **Waste disposal:** Dispose of used reagents and samples safely in accordance with local regulations.
7. **Product performance limitations:** Product performance and limitations are described in this manual. Migrasome Therapeutics accepts no responsibility for use outside these instructions.

Migrasome Therapeutics accepts no legal liability for any direct or indirect consequences arising from improper use of this product or failure to comply with applicable regulations. Contact customer service with any questions or requests for further information.

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