Packaging vectors

To produce virions, once your gene of interest is cloned into a viral vector (known as transfer vector), you need to use a packaging viral vector(s). Transfer vectors have been modified to reduce the hazardous level, and latest generations of transfer vectors are lacking of gag, pol, env viral genes. Packaging vectors provide all the viral proteins required for transcription and packaging of your expression cassette into recombinant viral particles.

pASSEMBLE™ Retroviral Packaging System

For a higher efficiency, titer and a versatile packaging of Retroviral transfer vectors



Includes:

ME0040

· 20 µL pASSEMBLE™ Ecotropic Retroviral Packaging Vector (50 ng/ μL)

ME0040 Plus

- · 20 µL pASSEMBLE™ Ecotropic Retroviral Packaging Vector (50 ng/ μ L)
- · 0.2 mL CANFAST™ Transfection Reagent
- \cdot 20 μ L eGFP Retroviral Transfer Control Vector $(50 \text{ ng}/\mu\text{L})$
- \cdot 20 μ L mCAT-1 Expression Vector (50 ng/ μ L)

ME0042

· 20 µL pASSEMBLE™ Amphotropic Retroviral Packaging Vector (50 ng/ μL)

ME0042-Plus

- \cdot 20 µL pASSEMBLE[™] Amphotropic Retroviral Packaging Vector (50 ng/ μL)
- · 0.2 mL CANFAST™ Transfection Reagent
- · 20 μL eGFP Retroviral Transfer Control Vector (50 ng/ μL)

ME0046

-20 μL pASSEMBLE™ 10A1 Retroviral Packaging Vector (50 ng/ μ L)

ME0046-Plus

- · 20 µL pASSEMBLE™ 10A1 Retroviral Packaging Vector (50 ng/ μ L)
- · 0.2 mL CANFAST™ Transfection Reagent
- · 20 uL eGFP Retroviral Transfer Control Vector











pASSEMBLE™ Retroviral Packaging System includes a unique packaging vector with gag, pol and env from different viruses confering a tropism in the cell to be infected. pASSEMBLE™ Ecotropic Packaging System includes a packaging vector with gp70 envelope genes from Moloney murine leukaemia virus (MoMLV). The gp70 envelope glycoproteins of ecotropic MoMLV viruses bind to receptors that occur only on mouse and rat cells and on interspecies hybrid cells that contain mouse chromosome 5. In murine cells, the entry of this ecotropic virus is mediated by mCAT-1 receptor. Higher efficiency of transduction is obtained by infection of cells previously transfected with mCAT-1 expression vector.

pASSEMBLE™ Amphotropic Packaging System includes a packaging vector with env gene from 4070A murine leukaemia virus (MuLV) generating virus capable of infecting most mammalian cells except hamsters. To infect hamster cell lines, like CHO-K1 cells, it is necessary to use a packaging vector with 10A1 envelope gene

Advantages & Features:

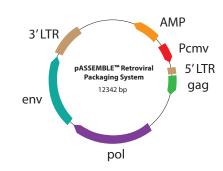
- Higher efficiency of transduction.
- High titer.
- Tropism versatility.

Applications:

Packaging of Retroviral transfer vectors.

Related Products:

- · FastCONTROL™ Dual Reporter Plasmids (p.27)
- · pOnebyOne™ Mammalian Expression vectors (p.22)



Ordering info:

Envelope gene	Packaging	Catalog Number	Size	Tropism
gp 70 MoMLV	Ecotropic	ME0040 ME0040-Plus	20 μΙ	Mouse and rat cell
4070A MuLV	Amphotropic	ME0042 ME0042-Plus	20 μΙ	Most mammalian cells (hamster cells are not included)
10A1 MuLV		ME0046 ME0046-Plus	20 μΙ	Most mammalian cells (hamster cells are included)



















