**Conventional packaging**

A) Conventional retroviral vector (pC)

B) Vector with intron

C) Vector with polyadenylation site

**RNA packaged in vitro**

D) In vitro transcribed genomic RNA packaging

In Vitro transcription of genomic RNA using T7 RNA polymerase

Transfection of RNA into packaging cell line

RNA packaged in vitro

Infected cell

Active virus and correct cargo

Intact transgene