Powerful gene delivery tool, high transduction efficiency. Lentiviral system can be used for both gene overexpression and gene knockdown (shRNA).

- **Biosafety:** 3rd generation technology (safest)
- **Broad spectrum:** Transduce almost all cells and animal models
- **Convenience:** Just add to cells and get results (virus)
- **Coverage:** Genome wide

### Lenti-ORF
- Plasmids
- Lentiviral Particles

### Lenti-shRNA
- Plasmids
- Lentiviral Particles

Lenti accessories: Packaging kit, Control particles, Concentrator

### Convenience: Lentiviral particles

Receive the Particles

Add to Cells

3 Days Later, Analyze Gene Expression

- WB (Myc-DDK tag)
- Fluorescence (GFP tag)

HEK293 cells transduced with GFP lentivirus

HT1080 cells transduced with GFP lentivirus
Lentiviral System

Lenti-ORF

Lenti-shRNA

Lenti-ORF clones, two vectors options

Lenti ORF
Myc/DDK-tagged

CAT(CAM) 3' SIN - LTR

Lenti-ORF
GFP-tagged

CAT(CAM) 3' SIN - LTR

Lenti-shRNAs

pGFP-C-shLenti (8.7 kb)

Three major functional elements
• shRNA expression under U6 promoter
• Puromycin mammalian selection marker
• tGFP as a reporter

More lentiviral destination vectors:

Highly effective Lenti-packaging kit (cat# TR30022)
• High efficiency
• Package the 3rd generation lenti vectors
• Transfection reagent included

Transduced HEK293 cells with lenti GFP virus produced with this Lenti-vpak kit