

Subcellular structure labeling tools

LumiSTAR provides highly concentrated and purified lentiviral particles deliver reporter genes that express fluorescent protein targeted to specific subcellular structure. Cell labeling allows direct visualizing specific organelles or structures, creating reporter cells that are applicable in investigating protein localization, protein dynamics, and protein trafficking. Our recombinant lentiviral particles are available for visualization of the cytoskeleton, plasma membrane, endosomes, Golgi, etc.

Advantages

- 1) **Convenience**
 - Transduction-ready lentiviral particles.
- 2) **Easy**
 - Rapid and simple procedure.
- 3) **High titer**
 - Highly efficient transduction of nearly all mammalian cell types. ($\geq 10^8$ TU/ml)
- 4) **Selection**
 - Available in vectors with a wide variety of promoters and reporters. (customized is available)

Targeting information and available colors

Structure	Targeting sequence	Catalog Number		
		EGFP	mCherry	EBFP
Actin	Human actin	LL005a		
Tubulin	Alpha-tubulin	LL006a		
Early endosomes	Rab5		LL001a	
Late endosomes	Rab7		LL002a	
Plasma membrane	Palmitoylation sequence	LL003a		
Golgi	Golgi targeting sequence			LL011a
Endoplasmic reticulum	ER targeting and retention sequence	LL009a	LLN007a	
Mitochondria	Mito targeting sequence	LL010a	LLN008a	
Nucleus	NLS	LL004a		LL012a
Peroxisomes	Peroxisome targeting sequence			LL013a
Lysosome	Lamp1	LL014a		

Lentiviral Transduction Workflow

Using Lentiviral reagents to express genes is as simple as it is efficient:

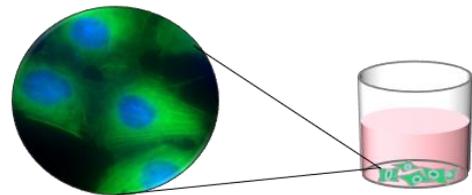
1. Add virus to cells in full medium
2. Incubate overnight
3. Ready for imaging



Lentiviral particles

Cells

Incubate at 37°C overnight



Examples of application:

