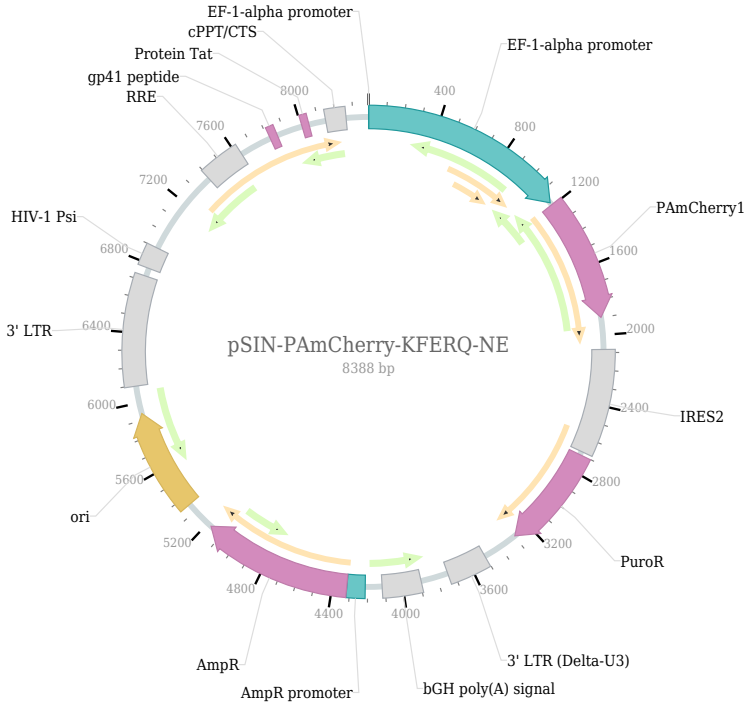
pSIN-PAmCherry-KFERQ-NE

Vector ID	V017137
Antibiotic Resistance	Ampicillin
Length	8388 bp
Vector Type	Constitutive expression
Host	Mammalian cells, Lentivirus

Product Information

Replication Origin	ori
Selection Marker	Puro
Promoter	EF-1α
Growth Strain(s)	Stbl3
Growth Temperature	37℃
Comment	The pSIN-PAmCherry-KFERQ-NE plasmid is a lentiviral vector designed for monitoring chaperone-mediated autophagy (CMA) activity. Key features include: CMA substrate: Contains the "KFERQ" pentapeptide motif recognized by HSPA8/HSC70 for lysosomal targeting; Photoactivatable reporter: PAmCherry fluorescence enables pulse-chase degradation assays; NE epitope tag: Allows antibody-based detection; Puromycin resistance: For stable cell line selection.

Vector Map



Plasmid Resuspension Protocol

1. Centrifuge at 5,000×g for 5 min.
2. Carefully open the tube and add sterile water to dissolve the DNA: add 20 µl for 5 µg plasmid, and 100 µl for 100 µg plasmid.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin to concentrate the liquid at the bottom. Speed is less than 5000×g.
5. Store the plasmid at -20 ℃.