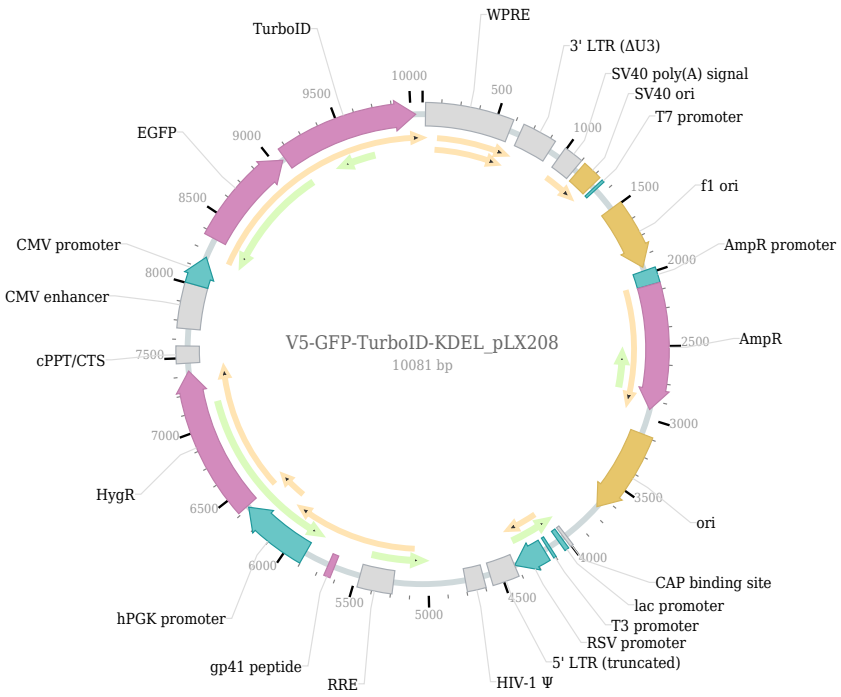
V5-GFP-TurboID-KDEL_pLX208

Vector ID	V017845
Antibiotic Resistance	Ampicillin
Length	10081 bp
Vector Type	Protein expression
Host	Mammalian cells, Lentivirus

Product Information

Replication Origin	ori
Selection Marker	Hyg
Promoter	CMV
5' Primer	CMV-F
Growth Strain(s)	Stbl3
Growth Temperature	37℃
Comment	V5-GFP-TurboID-KDEL is a Ting-lab lentiviral pLX208 plasmid built for TransitID proximity labeling. The C-terminal KDEL sequence anchors the fusion protein exclusively inside the ER lumen, preventing extracellular leakage. TurboID enables rapid, low-toxicity biotin tagging of nearby endogenous proteins within just 10 minutes of biotin incubation. It is widely used to profile ER-resident secretory precursors and track bidirectional protein crosstalk between macrophages and tumor cells via mass spectrometry.

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 ℃.