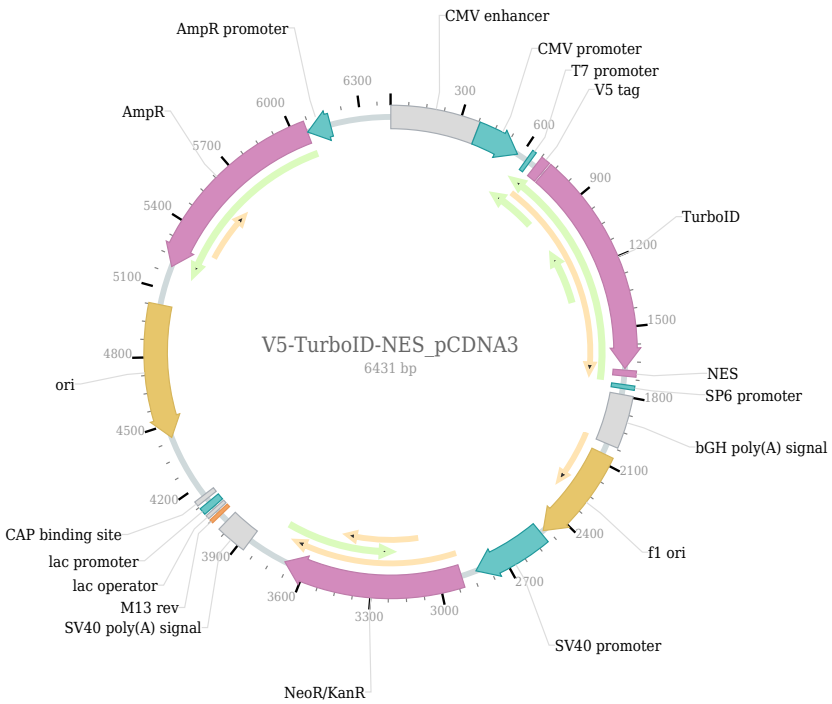
V5-TurboID-NES_pCDNA3

Vector ID	V016701
Antibiotic Resistance	Ampicillin
Length	6431 bp
Vector Type	Protein expression
Host	Mammalian cells

Product Information

Replication Origin	ori
Selection Marker	Neo/G418
Promoter	SV40
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	V5-TurboID-NES_pCDNA3 is a mammalian expression plasmid from Alice Ting's lab for cytoplasmic proximity labeling. It carries CMV-driven V5-tagged TurboID fused to a nuclear export signal (NES) to confine the fast biotin ligase to cytosol. Only 10-minute biotin incubation is needed to capture proximal interacting proteins, far faster than classic BioID. The V5 tag enables Western blot quantification of TurboID expression for reliable proteomic comparison.

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 ℃.