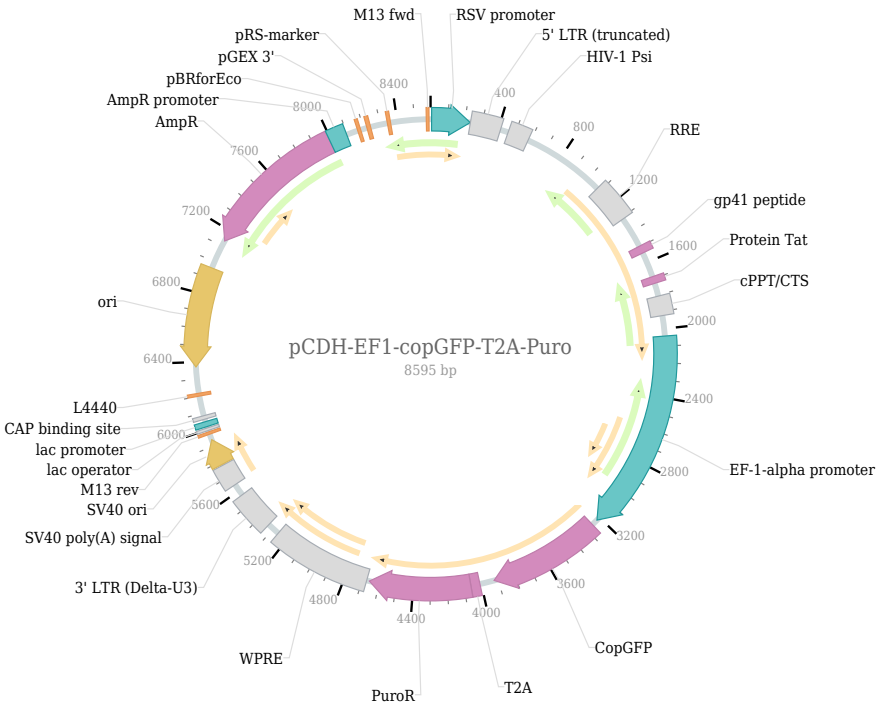
pCDH-EF1-copGFP-T2A-Puro

Vector ID	V001322
Antibiotic Resistance	Ampicillin
Length	8595 bp
Vector Type	Mammalian Expression, Lentiviral

Product Information

Replication Origin	ori
Selection Marker	Puromycin
Copy Number	High Copy
Promoter	EF-1α
Cloning Method	Restriction Enzyme
5' Primer	GCACTTGATGTAATTCTCC
3' Primer	CAACACCACGGAATTGTCAG
Comment	It is a 3rd gen lenti-vector. The 3rd generation LV packaging plasmid includes gag, coding for the virion main structural proteins; pol, responsible for the retrovirus-specific enzymes; and RRE, a binding site for the Rev protein which facilitates export of the RNA from the nucleus. This plasmid does not include Rev. The third-generation packaging system offers maximal biosafety but is more cumbersome, as it involves the transfection of four different plasmids in the producer cells. If you wish to use the 3rd gen lentivector, you need to have a lentiviral vector with a chimeric 5' LTR in which the HIV promoter is replaced with CMV or RSV, thus making it TAT-independent. Examples of these vectors include pLKO.1, pLL3.7, pLB, pLenti6, pSico, pCL and pCS. Most Aebischer and Trono lab lentiviral vectors CANNOT be used with this system. A lentiviral vector carrying a chimeric 5' LTR can be packaged with either the 2nd or 3rd generation packaging system.

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 ℃.