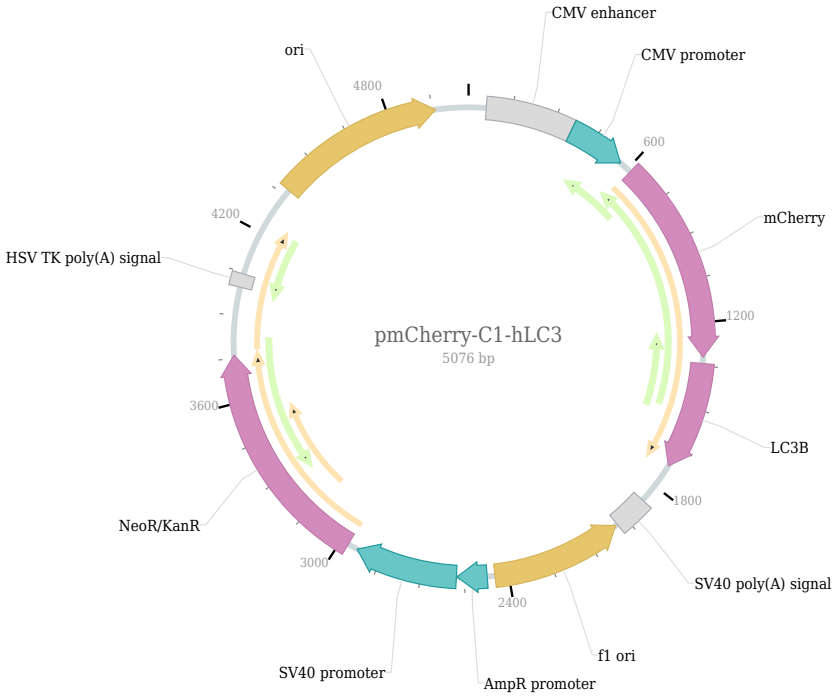
pmCherry-C1-hLC3

Vector ID	V000361
Antibiotic Resistance	Kanamycin
Length	5076 bp
Vector Type	Cellular Autophagy Vectors

Product Information

Replication Origin	ori
Selection Marker	mCherry
Promoter	CMV
Growth Strain(s)	DH10B
Comment	pmCherry-C1-hLC3 is an autophagy reporter plasmid expressing human LC3 (MAP1LC3B) fused to mCherry from the CMV promoter. Upon autophagy induction, mCherry-LC3 is lipidated and redistributes to autophagosomal membranes as puncta, enabling fluorescence-based monitoring of autophagosome formation and flux (Tanida et al. 2014).

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 ℃.