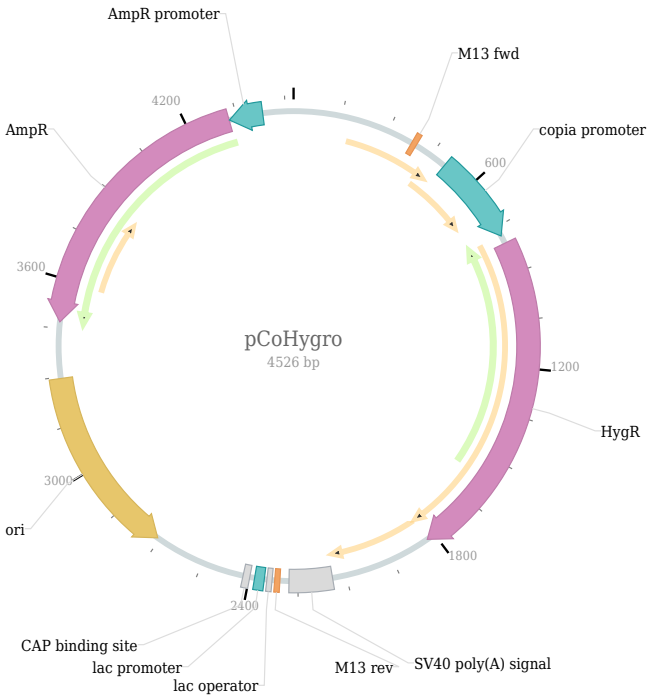
pCoHygro

Vector ID	V011654
Antibiotic Resistance	Ampicillin
Length	4526 bp
Vector Type	Insect Cell Vectors

Product Information

Replication Origin	ori
Source/Author	Invitrogen (Life Sciences)
Copy Number	High copy number
Promoter	copia
Comment	pCoHygro is a Drosophila S2 cell hygromycin B selection plasmid; carries hygromycin-B-phosphotransferase under the copia promoter for cotransfection-based stable transformation. The copia promoter derives from the 5′ long-terminal repeat (LTR) of the Drosophila melanogaster copia retrotransposon. It acts as a strong constitutive promoter in Drosophila S2 cultured cells, and is widely employed to drive selectable-marker genes (puromycin-resistance, blasticidin-resistance) for generating stable S2 cell lines. It exhibits negligible activity in intact fly tissues, mammalian cells and yeast. In S2-cell workflows, it is typically used in separate helper plasmids (e.g. pCoPuro, pCoBlast) co-transfected with target-gene vectors such as pMT-series plasmids.

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 ℃.