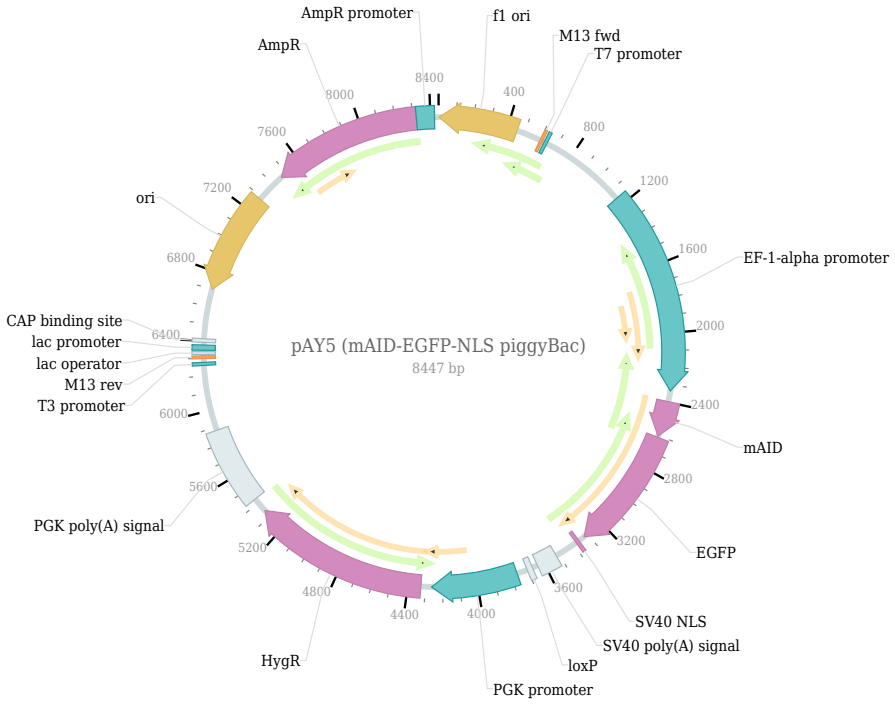
pAY5 (mAID-EGFP-NLS piggyBac)

Vector ID	V017300
Antibiotic Resistance	Ampicillin
Length	8447 bp
Vector Type	Protein expression
Host	Mammalian cells

Product Information

Replication Origin	ori
Selection Marker	Hyg
Promoter	EF-1α
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	pAY5 is a piggyBac-based mammalian reporter plasmid carrying the mAID-EGFP-NLS fusion cassette driven by the EF-1α promoter. It bears a hygromycin resistance marker for stable cell line selection and serves to quantify protein degradation in AID/AID2 systems via nuclear EGFP fluorescence. Researchers use this vector to assess leaky basal degradation, ligand sensitivity and depletion kinetics of OsTIR1 variants in human cells. It acts only as a reporter tool rather than a donor plasmid for endogenous gene tagging.

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 ℃.