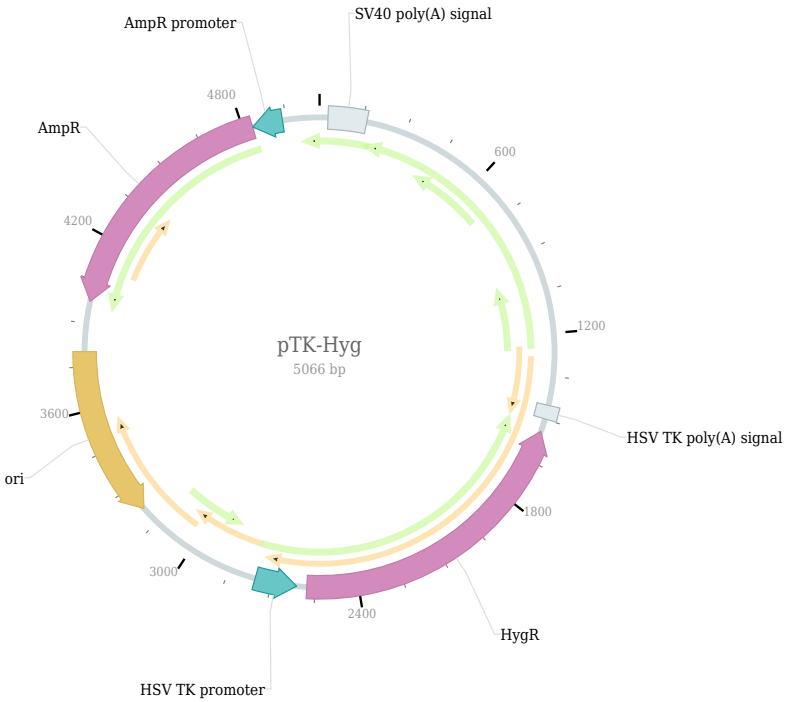
pTK-Hyg

Vector ID	V000776
Antibiotic Resistance	Ampicillin
Length	5066 bp
Vector Type	Tetracycline Regulatory System

Product Information

Replication Origin	ori
Selection Marker	Hyg
Promoter	HSV TK
Cloning Method	Enzyme digestion and ligation
Growth Strain(s)	Top10
Growth Temperature	37℃
Comment	pTK-Hyg is a selection vector that confers hygromycin resistance in mammalian cells for the selection of stably transformed cells. pTK-Hyg is especially useful for selection of double-stable cell lines using the Tet-On or Tet-Off Gene Expression Systems because the absence of an enhancer element on pTK-Hyg prevents the unwanted activation of pTRE- and pBI-derived plasmids upon cointegration into the host cell's genome.pTK-Hyg can be cotransfected into the host cell line with an expression plasmid that contains a gene of interest using any standard transfection technique. Most mammalian cell lines require 200 μg/ml of Hygromycin to select for stably transformed cells.

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 ℃.