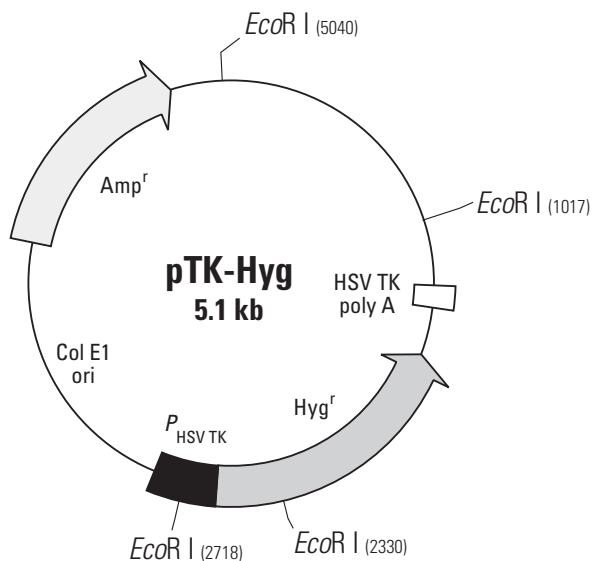


**pTK-Hyg Vector Information**

GenBank Accession No.: U40398

PT3082-5

Catalog No. 631750



**Restriction map of pTK-Hyg.** Unique restriction sites are in bold.

**Description**

pTK-Hyg is a selection vector which 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.

**Use**

pTK-Hyg can be cotransfected into the host cell line with an expression plasmid which 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.

**Location of Features**

- HSV Fragment containing TK poly A signal: 1562–1050
- Hygromycin resistance gene: 2577–1540
- HSV TK promoter: 2839–2591
- pBR322 origin of replication: 3182–3825
- Ampicillin resistance gene  
β-lactamase coding sequences: 3973–4833

**Propagation in *E. coli***

- Suitable host strains: DH5α and other general purpose strains.
- Selectable marker: plasmid confers resistance to ampicillin (50 µg/ml) on *E. coli* hosts.
- *E. coli* replication origin: Col E1 ori

**Note:** The attached sequence file has been compiled from information in the sequence databases, published literature, and other sources, together with partial sequences obtained by Clontech. This vector has not been completely sequenced.

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