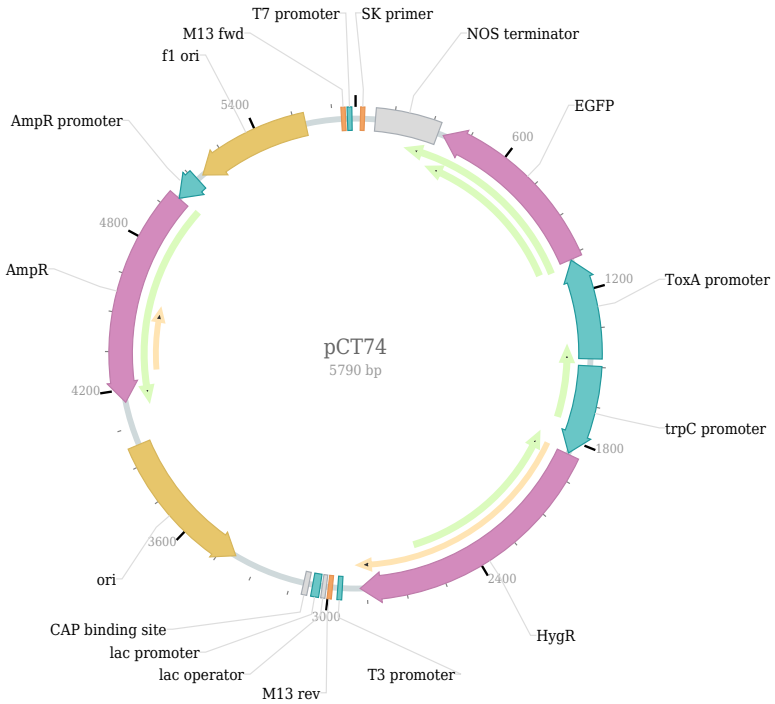
pCT74

载体编号 Vector ID	V013142
登录号 Accession ID	pCT74-Hygro-sGFP
抗性 Antibiotic Resistance	Ampicillin
长度 Length	5790 bp
载体类型 Vector Type	Protein expression
宿主 Host	Hyphal fungi

产品信息

复制子 Replication Origin	ori
筛选标记 Selection Marker	Hyg
启动子 Promoter	trpC
培养菌株 Growth Strain(s)	DH10B
培养温度 Growth Temperature	37℃
备注 Comment	pCT74 is a fungal expression vector with ToxA promoter driving sGFP green fluorescent protein, hygromycin B resistance, for fungal cell visualization and transformation efficiency monitoring in filamentous fungi. The ToxA promoter originates from the wheat pathogen Pyrenophora tritici-repentis. Truncated versions are widely used as a moderate-to-strong constitutive promoter for heterologous gene expression in diverse filamentous ascomycetes. It shows no activity in mammalian cells or Saccharomyces cerevisiae. Although the native ToxA effector gene is infection-induced in its original host, the isolated promoter fragment drives constitutive reporter expression in heterologous fungal species.

质粒图谱



复溶方法

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 ℃.