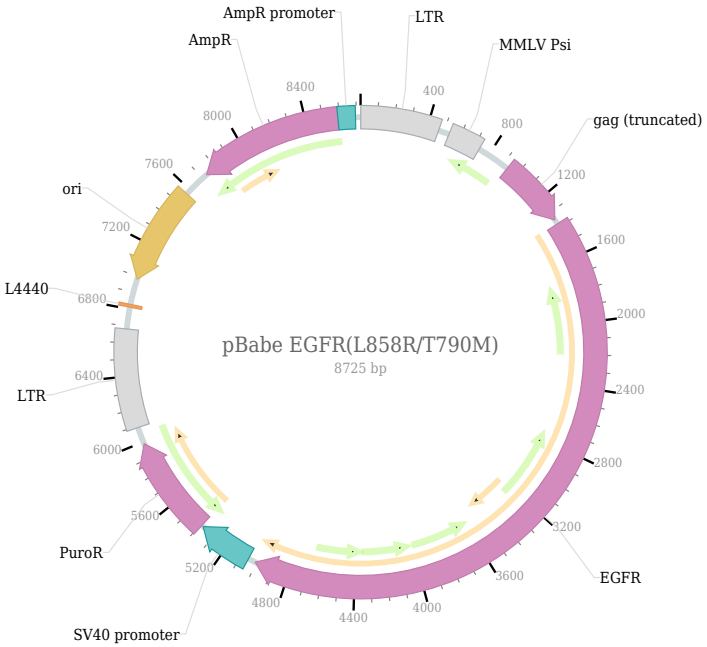
pBabe EGFR(L858R/T790M)

载体编号 Vector ID	V000671
抗性 Antibiotic Resistance	Ampicillin
长度 Length	8725 bp
载体类型 Vector Type	Mammalian Expression, Retroviral

产品信息

复制子 Replication Origin	ori
筛选标记 Selection Marker	Puromycin
拷贝数 Copy Number	High Copy
启动子 Promoter	SV40
克隆方法 Cloning Method	Restriction Enzyme
5' 引物 5' Primer	pBABE 5'
培养菌株 Growth Strain(s)	DH10B
备注 Comment	pBabe EGFR(L858R/T790M) is a puromycin-selectable retroviral plasmid carrying human EGFR with both activating L858R and resistance-conferring T790M double mutations. It was constructed via site-directed mutagenesis for stable ectopic EGFR expression in Ba/F3 and other mammalian cell lines by retroviral transduction. Cells transduced with this construct gain IL-3-independent growth and full resistance to erlotinib, yet remain suppressible by irreversible EGFR inhibitor HKI-272 at nanomolar concentrations. This vector serves as a core in vitro model to study acquired EGFR-TKI resistance in non-small cell lung cancer, originally reported in Yuza's 2007 Cancer Biology & Therapy work.

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 ℃.