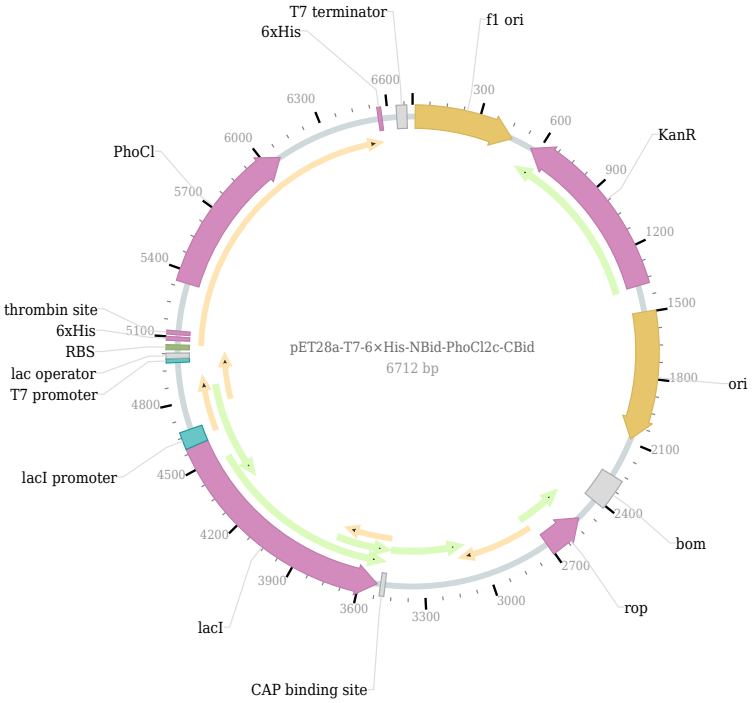
pET28a-T7-6×His-NBid-PhoCl2c-CBid

载体编号 Vector ID	V013882
抗性 Antibiotic Resistance	Kanamycin
长度 Length	6712 bp
载体类型 Vector Type	Protein expression
宿主 Host	E. coli

产品信息

复制子 Replication Origin	ori
启动子 Promoter	T7
培养菌株 Growth Strain(s)	DH5a
培养温度 Growth Temperature	37℃
备注 Comment	pET28a-T7-6×His-NBid-PhoCl2c-Cbid is a pET28a-derived E. coli expression vector producing an N-terminal 6×His-tagged photoactivatable Bid under T7 control, with kanamycin selection in BL21(DE3) hosts. The violet-light photocleavable protein PhoCl2c is inserted at the caspase-8 cleavage site (LQTDG), separating autoinhibitory NBid from pro-apoptotic CBid. Illumination cleaves PhoCl2c and releases CBid, which translocates to mitochondria and triggers apoptosis, enabling optogenetic control of cell death. The tag permits affinity purification of the fusion for in vitro characterization.

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 ℃.