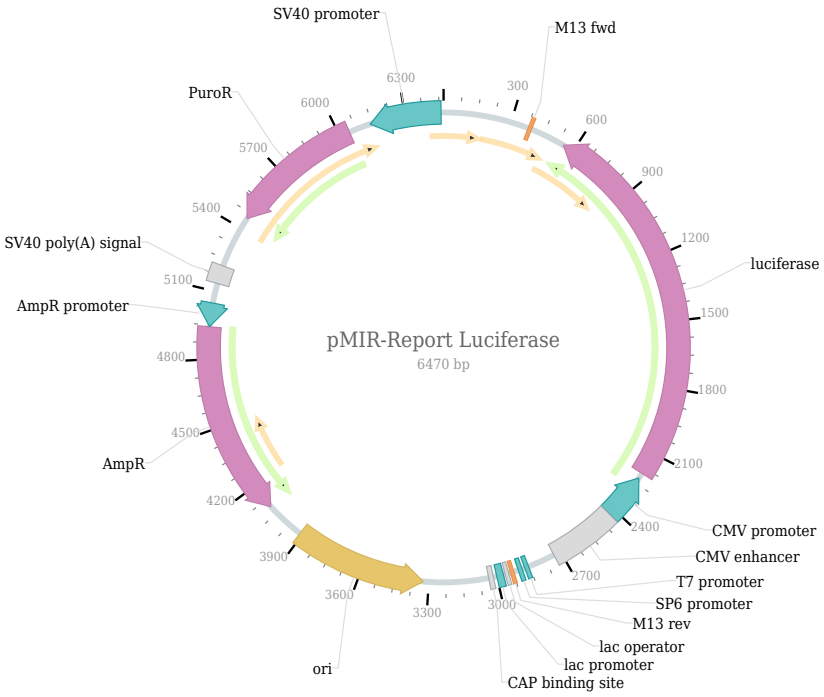
pMIR-Report Luciferase

载体编号 Vector ID	V012937
抗性 Antibiotic Resistance	Ampicillin
长度 Length	6470 bp
载体类型 Vector Type	Signal transduction
宿主 Host	Mammalian cells

产品信息

复制子 Replication Origin	ori
筛选标记 Selection Marker	Puro
启动子 Promoter	CMV
培养菌株 Growth Strain(s)	DH10B
培养温度 Growth Temperature	37℃
备注 Comment	pMIR-Report Luciferase is an essential molecular biology tool plasmid designed for miRNA research. It features a luciferase reporter gene that emits a detectable signal upon expression, allowing for precise quantification of gene expression levels. The plasmid has a specific region where miRNA binding sites, like the 3′ untranslated region (UTR) of genes such as grouper TRAF6, can be inserted. This enables the investigation of miRNA-target interactions. Compatible with transfection into various cell types, such as grouper spleen (GS) cells, it is used in procedures where the target-containing luciferase plasmids are constructed by cloning UTR fragments into the vector and then cotransfected with miRNAs or controls. The luciferase activity assay measures the impact of miRNAs on target gene expression. Overall, it plays a crucial role in validating miRNA targets and understanding miRNA-mediated gene regulation, providing valuable insights into biological processes such as immune responses and virus pathogenesis.

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 ℃.