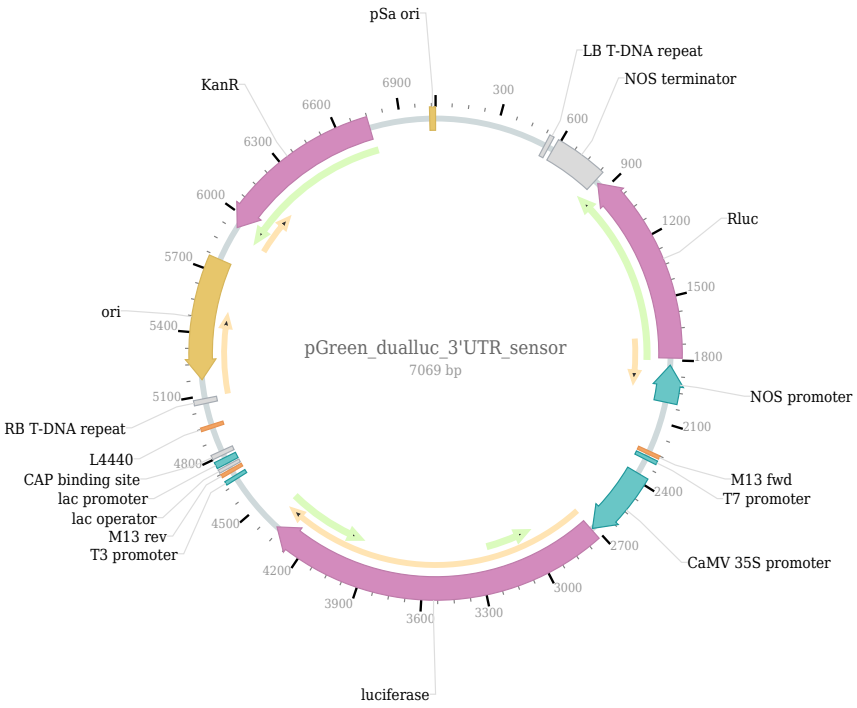
pGreen_dualluc_3'UTR_sensor

载体编号 Vector ID	V007388
抗性 Antibiotic Resistance	Kanamycin
长度 Length	7069 bp
载体类型 Vector Type	Luciferase ; Plant transient expression
宿主 Host	Plants

产品信息

复制子 Replication Origin	pSa ori
拷贝数 Copy Number	High Copy
启动子 Promoter	CaMV 35S
培养菌株 Growth Strain(s)	Stbl3
备注 Comment	The pGreen dual-luciferase 3'UTR sensor is a pGreenII-based reporter vector for quantifying plant miRNA repression in Nicotiana benthamiana. It carries NOS-driven Renilla luciferase as an internal control, with miRNA target sequences inserted into the artificial 3'UTR of 35S-driven firefly luciferase. Repression strength is measured via dual-luciferase luminescence (protein level) and qRT-PCR (mRNA level) after agroinfiltration. This vector specifically assesses miRNA activity when binding sites locate in transcript 3'UTR, contrasting with the ORF sensor variant. It reveals that plant targets with 3'-end mismatches often outperform perfectly matched sites within the 3'UTR context.

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 ℃.