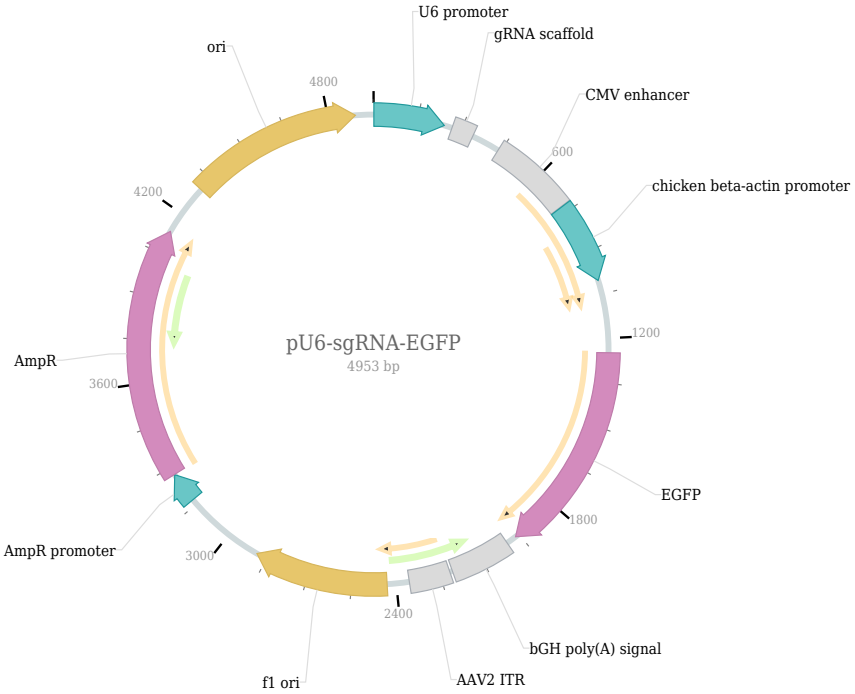
pU6-sgRNA-EGFP

载体编号 Vector ID	V015154
抗性 Antibiotic Resistance	Ampicillin
长度 Length	4953 bp
载体类型 Vector Type	Gene knockout
宿主 Host	Mammalian cells

产品信息

复制子 Replication Origin	ori
拷贝数 Copy Number	High copy number
启动子 Promoter	CBh
培养菌株 Growth Strain(s)	DH10B
培养温度 Growth Temperature	37℃
备注 Comment	The plasmid vector pU6-sgRNA-EGFP is a CRISPR/Cas9 genome editing tool designed for mammalian cells. It features a U6 promoter driving the expression of a single-guide RNA (sgRNA) to target specific genes. The vector also contains an enhanced green fluorescent protein (EGFP) reporter, which allows for visual monitoring of transfection efficiency and sorting of successfully edited cells. It typically includes selection markers, such as puromycin or hygromycin resistance, for stable cell line generation. This all-in-one system enables efficient gene knockout and is suitable for both direct plasmid transfection and lentiviral-mediated gene delivery.

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 ℃.