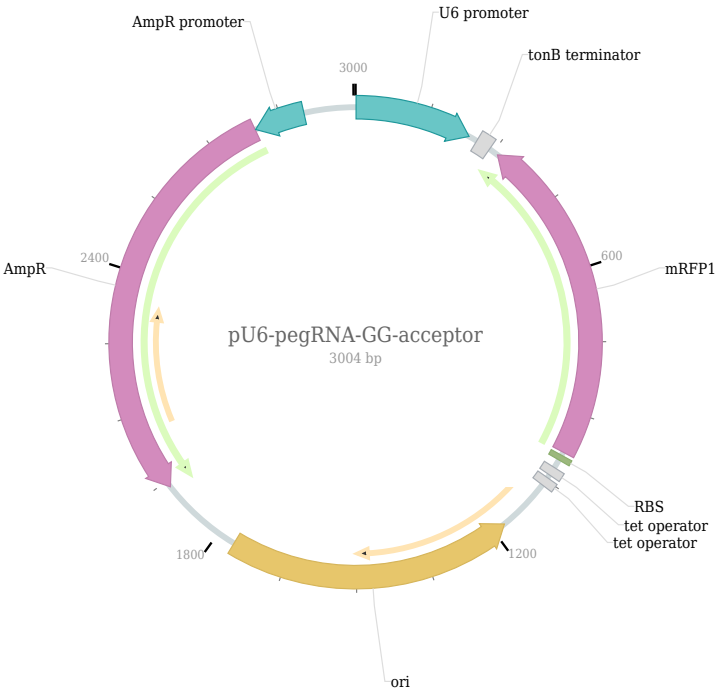
pU6-pegRNA-GG-acceptor

载体编号 Vector ID	V007253
抗性 Antibiotic Resistance	Ampicillin
长度 Length	3004 bp
载体类型 Vector Type	Mammalian Expression

产品信息

复制子 Replication Origin	ori
来源 Source/Author	David Liu Lab
拷贝数 Copy Number	High Copy
启动子 Promoter	U6
克隆方法 Cloning Method	Ligation Independent Cloning
5' 引物 5' Primer	GACTATCATATGCTTACCGT
培养菌株 Growth Strain(s)	DH10B
培养温度 Growth Temperature	37℃
备注 Comment	pU6-pegRNA-GG-acceptor is a mammalian expression plasmid designed for cloning prime editing guide RNAs (pegRNAs) via Golden Gate assembly. It features a human U6 promoter for pegRNA expression, an ampicillin resistance gene for bacterial selection, and a high-copy pUC origin. The vector is specifically engineered with BsaI restriction sites to facilitate the insertion of pegRNA sequences, which consist of a spacer, scaffold, and a 3' extension containing the reverse transcriptase template and primer binding site. It is a fundamental tool in prime editing experiments, often used alongside editors like PE2.

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 ℃.