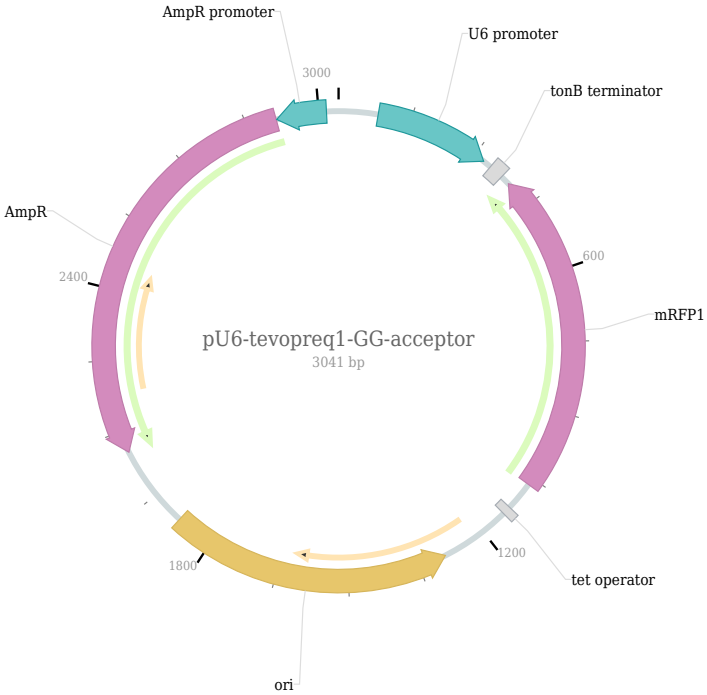
pU6-tevopreq1-GG-acceptor

Vector ID	V017185
Antibiotic Resistance	Ampicillin
Length	3041 bp
Vector Type	Gene knockout
Host	Mammalian cells

Product Information

Replication Origin	ori
Promoter	U6
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	pU6-tevopreq1-GG-acceptor is an empty mammalian expression plasmid created by David Liu's lab for cloning engineered pegRNAs (epegRNAs). It carries a human U6 promoter followed by cloning sites and a trimmed evopreQ1 (tevopreQ1) pseudoknot motif at the 3′ end to stabilize transcribed epegRNAs against exonuclease degradation. Researchers insert custom pegRNA spacer, PBS and RT template sequences via Golden Gate assembly to generate complete epegRNA expression constructs for prime editing experiments. This backbone boosts prime editing efficiency across diverse human cell lines without elevating off-target editing when co-delivered with prime editor protein plasmids.

Vector Map



Plasmid Resuspension Protocol

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 ℃.