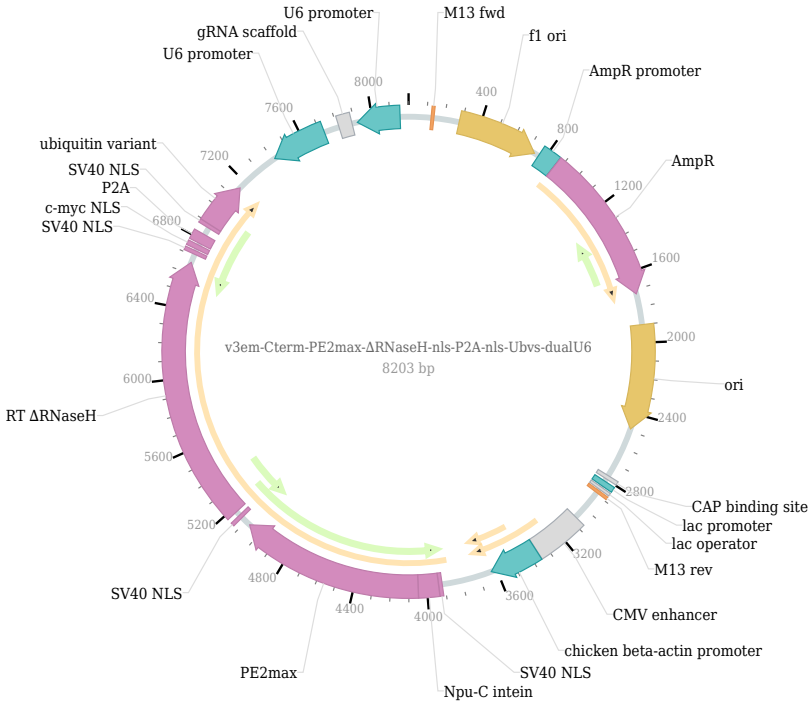
v3em-Cterm-PE2max-ΔRNaseH-nls-P2A-nls-Ubvs-dualU6

Vector ID	V015065
Antibiotic Resistance	Ampicillin
Length	8203 bp
Vector Type	Protein expression
Host	Mammalian cells, Adeno-associated virus

Product Information

Replication Origin	ori
Promoter	CBh
5' Primer	G33179-F1
Growth Temperature	37℃
Comment	v3em-Cterm-PE2max-ΔRNaseH-nls-P2A-nls-Ubvs-dualU6 is a dual-AAV prime editing component of the v3em PE-AAV system (Davis et al. 2023): encodes the C-terminal half of PE2max (RNaseH domain deleted, with NLS) that reconstitutes the full editor via split-intein trans-splicing with the N-terminal component, plus additional regulatory elements and dual U6 sgRNA cassettes. Enables efficient in vivo prime editing in mouse brain, liver, and heart.

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 ℃.