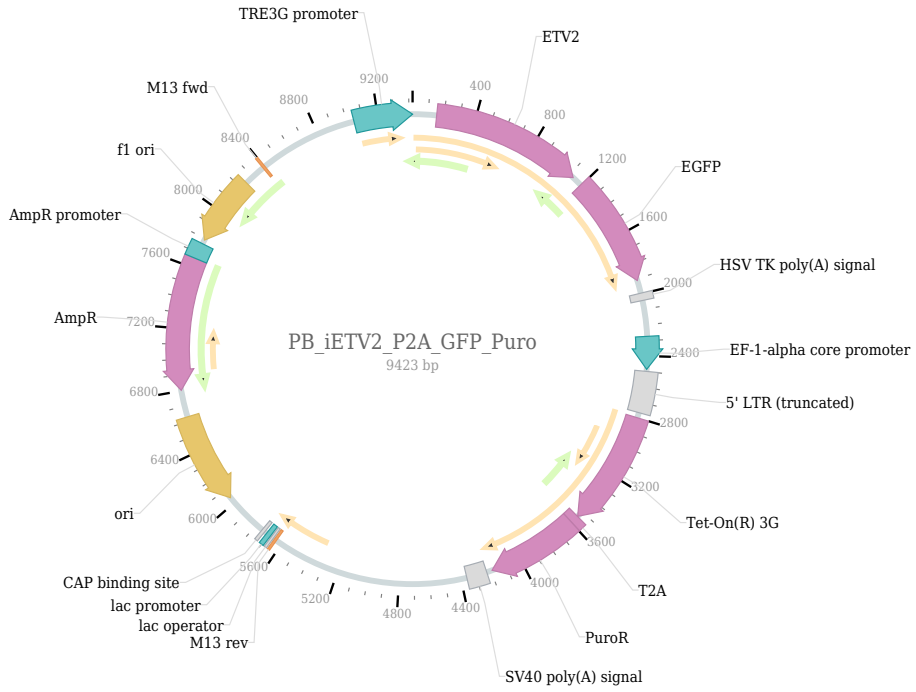
PB_iETV2_P2A_GFP_Puro

Vector ID	V014417
Antibiotic Resistance	Ampicillin
Length	9423 bp
Vector Type	Protein expression, Transposition, Tetracycline inducible
Host	Mammalian cells

Product Information

Replication Origin	ori
Selection Marker	Puro
Promoter	TRE3G
Cloning Method	Gibson Cloning
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	PB_iETV2_P2A_GFP_Puro is a 9423 bp lentiviral vector. It is designed for doxycycline-inducible expression of the human ETV2 gene, which is fused with EGFP via a P2A peptide and driven by the EF-1-alpha core promoter. A PuroR gene under the SV40 promoter enables stable cell selection. Key elements include the TRE3G promoter, Tet-On(R) 3G system, HIV-1 LTRs, RRE, and cPPT/CTS for efficient viral packaging and transgenesis.

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 ℃.