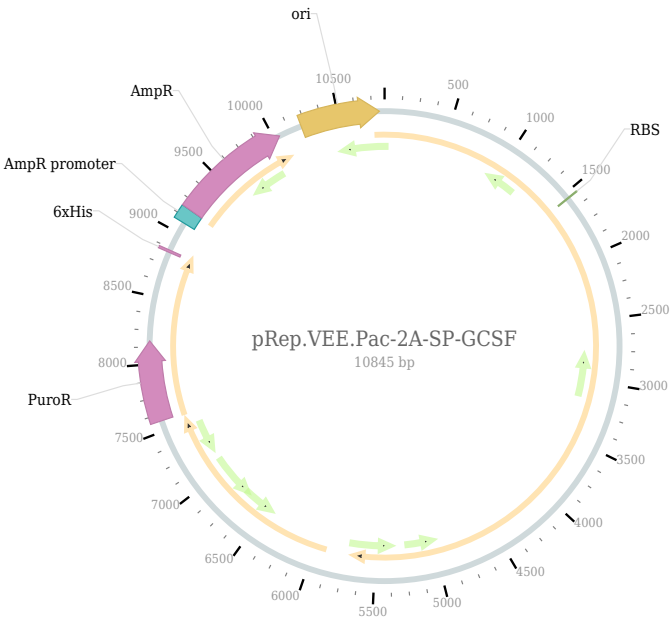
pRep.VEE.Pac-2A-SP-GCSF

Vector ID	V003761
Antibiotic Resistance	Ampicillin
Length	10845 bp
Vector Type	Cloning vector

Product Information

Replication Origin	ori
Source/Author	Kim YG, Baltabekova AZ, Shustov AV.
Growth Strain(s)	Top10
Growth Temperature	37℃
Comment	RepVEE-Pac-2A-SigP-GCSF (replicon) was created by replacing the GFP gene in the replicon pRepVEE-GFP with a gene cassette Pac-2A-SigP-GCSF. The gene cassette encodes a polyprotein. A gene cassette Pac-2A-SigP-GCSF was designed to direct the coexpression of an enzyme puromycin N-acetyltransferase (Pac) and a recombinant human colony-stimulating factor (G-CSF). The gene cassette Pac-2A-SigP-GCSF has the following design: its single open reading frame (ORF) encodes a polyprotein wherein the N-terminal part is the Pac, the C-terminal part is the G-CSF (with a signal peptide for secretory expression, SigP) and a central region is a protease 2A of foot-and-mouth disease virus (FMDV 2A) (Fig 2). In the replicon RepVEE.Pac-2A-SP-GCSF the gene cassette is placed downstream of the subgenomic promoter.

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 ℃.