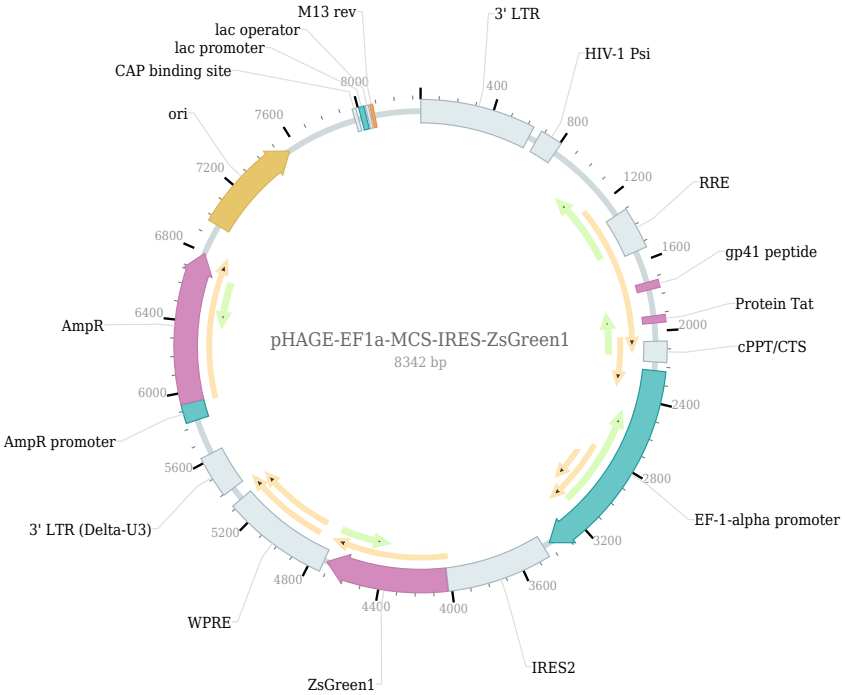
pHAGE-EF1a-MCS-IRES-ZsGreen1

Vector ID	V013929
Antibiotic Resistance	Ampicillin
Length	8342 bp
Vector Type	Protein expression
Host	Mammalian cells, Lentivirus

Product Information

Replication Origin	ori
Promoter	EF-1α
Growth Strain(s)	Stbl3
Growth Temperature	37℃
Comment	pHAGE-EF1a-MCS-IRES-ZsGreen1 (8.3 kb) is a third-generation lentiviral vector for bicistronic gene expression. The EF-1α promoter drives transcription of a gene of interest cloned into the MCS, followed by an IRES (internal ribosome entry site) and the ZsGreen1 fluorescent reporter . Lentiviral elements include HIV-1 Ψ (packaging signal), RRE (Rev response element), cPPT/CTS (central polypurine tract), gp41 peptide, Protein Tat, WPRE (woodchuck hepatitis post-transcriptional regulatory element), and 3‘ ΔU3 LTR (self-inactivating) for efficient transduction and high expression . The vector also carries AmpR for bacterial selection, a pUC origin (high-copy replication), and SV40 ori.

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 ℃.