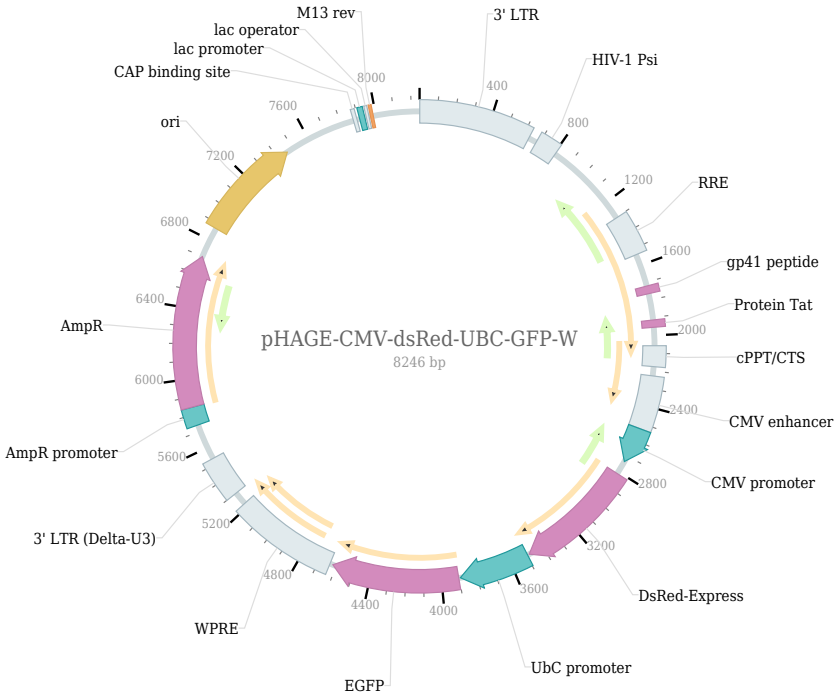
pHAGE-CMV-dsRed-UBC-GFP-W

Vector ID	V001023
Antibiotic Resistance	Ampicillin
Length	8246 bp
Vector Type	Lentiviral Expression Vectors

Product Information

Replication Origin	ori
Selection Marker	EGFP, DsRed-Express
Promoter	UbC
Growth Strain(s)	Stbl3
Growth Temperature	37℃
Comment	The pHAGE vector was modified for dual transgenesis as follows: cDNA encoding a variant of the red fluorescent protein adapted from Discosoma sp. (DsRed-Express; Clontech, Mountain View, CA) was amplified by PCR attaching NotI and BamH1 restriction sites to 5' and 3' ends, respectively. This amplicon was cloned into the pHAGE backbone in the first gene expression position by ligation to NotI/BamH1 cohesive ends. Next, enhanced green fluorescence protein (GFP; Clontech) cDNA was generated by PCR attaching NdeI and ClaI sites to the 5' and 3' ends, respectively, for ligation into the second gene position of pHAGE. Immediately upstream of the dsRed or GFP ATG start site, the indicated promoter fragment (cytomegalovirus [CMV], 584 bp; ubiquitin C [UBC], 397 bp]) was inserted by standard cloning techniques.

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 ℃.