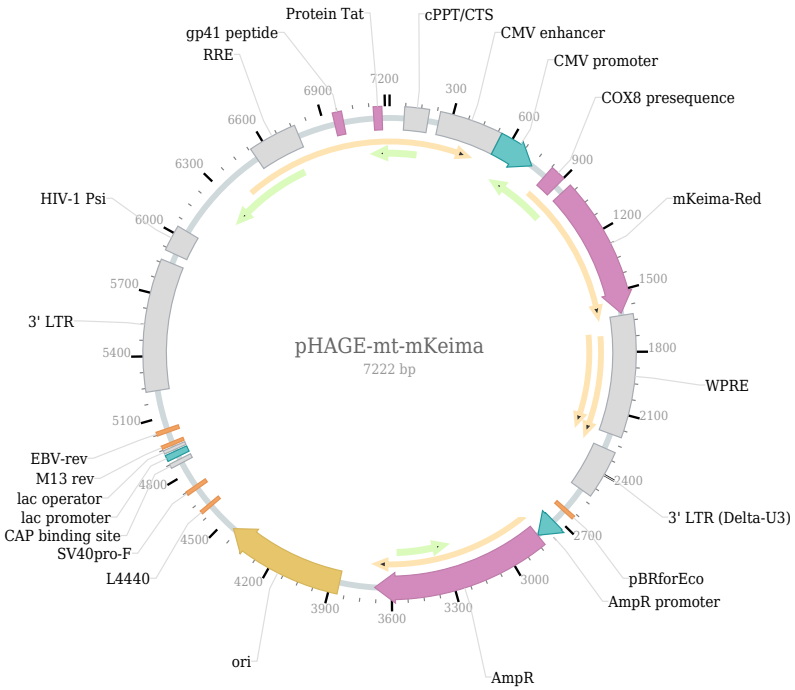
pHAGE-mt-mKeima

Vector ID	V011844
Antibiotic Resistance	Ampicillin
Length	7222 bp
Vector Type	Mammalian Expression, Lentiviral

Product Information

Replication Origin	ori
Copy Number	High Copy
Promoter	CMV
Cloning Method	Gibson Cloning
5' Primer	CGCAAATGGGCGGTAGGCGTG
3' Primer	ATAGCGTAAAAGGAGCAACA
Growth Strain(s)	stbl3
Growth Temperature	37℃
Comment	pHAGE-mt-mKeima is a lentiviral expression vector for monitoring mitophagy. It encodes the fluorescent protein mKeima fused to a mitochondrial targeting sequence, enabling ratiometric pH-based detection of mitochondrial delivery to lysosomes via fluorescence microscopy.

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 ℃.