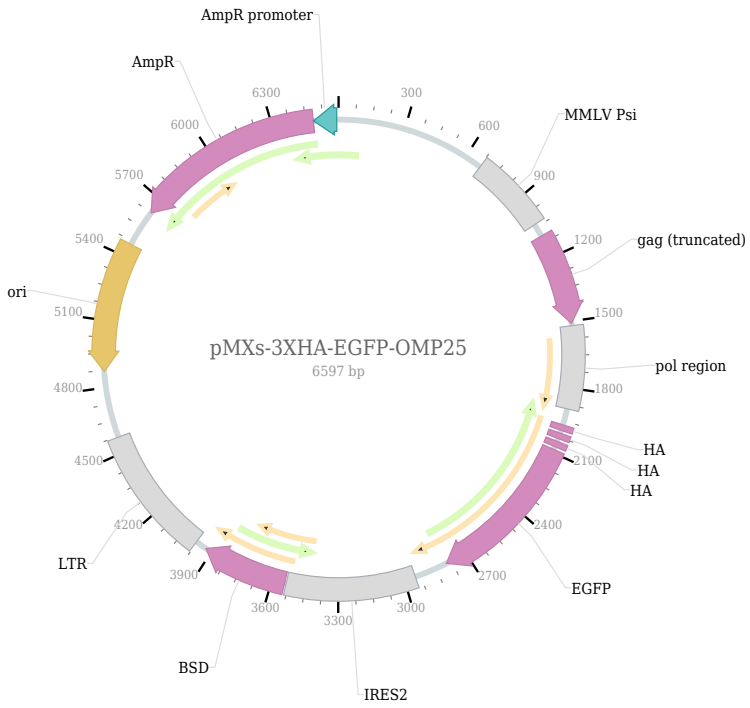
pMXs-3XHA-EGFP-OMP25

载体编号 Vector ID	V017181
抗性 Antibiotic Resistance	Ampicillin
长度 Length	6597 bp
载体类型 Vector Type	Protein expression
宿主 Host	Mammalian cells, Retrovirus

产品信息

复制子 Replication Origin	ori
筛选标记 Selection Marker	Blast
启动子 Promoter	MMLV
培养菌株 Growth Strain(s)	Stbl3
培养温度 Growth Temperature	30℃
备注 Comment	pMXs-3XHA-EGFP-OMP25 is a retroviral mammalian expression plasmid created in David Sabatini's lab, also named HA-MITO construct. It encodes a fusion protein with triple HA epitopes, EGFP and OMP25 mitochondrial outer membrane targeting sequence, enabling both mitochondrial fluorescent labeling and anti-HA immunocapture. Carrying blasticidin resistance marker, it delivers the fusion gene into human cells via retroviral transduction for stable expression. This vector serves as core tool to rapidly purify intact mitochondria within 12 minutes for absolute LC/MS quantification of matrix metabolites in the 2016 Cell study.

质粒图谱



复溶方法

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 ℃.