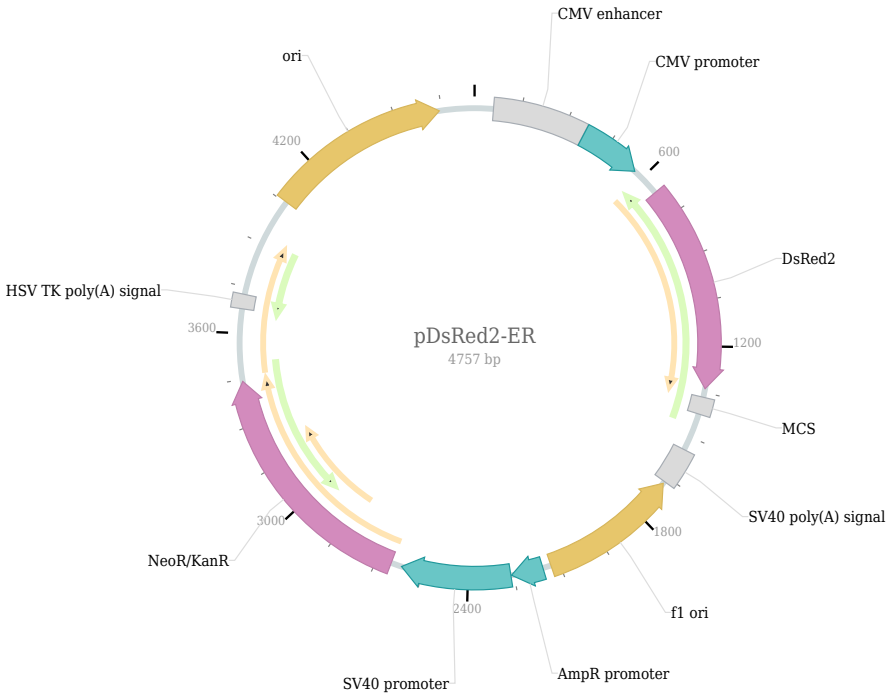
pDsRed2-ER

载体编号 Vector ID	V006518
抗性 Antibiotic Resistance	Kanamycin
长度 Length	4757 bp
载体类型 Vector Type	Fluorescent Protein Reporter Vectors

产品信息

复制子 Replication Origin	ori
筛选标记 Selection Marker	Neomycin
启动子 Promoter	CMV
克隆方法 Cloning Method	Enzyme digestion and ligation
备注 Comment	pDsRed2-ER is a mammalian expression vector that encodes a fusion consisting of Discosoma sp. red fluorescent protein (DsRed2); the endoplasmic reticulum (ER) targeting sequence of calreticulin, fused to the 5' end of DsRed2; and the ER retention sequence, KDEL, fused to the 3' end of DsRed2a human codon-optimized DsRed variant engineered for faster maturation and lower non-specific aggregation.To drive expression of DsRed2, this vector contains the immediate early promoter of cytomegalovirus (PCMV IE). SV40 polyadenylation signals downstream of the DsRed2 gene direct proper processing of the 3'-end of the DsRed2 mRNA transcript. The vector also contains an SV40 origin for replication in any mammalian cell line that expresses the SV40 T-antigen, a pUC origin of replication for propagation in E. coli, and an f1 origin for single-stranded DNA production. A neomycin resistance cassetteconsisting of the SV40 early promoter (PSV40e), the neomycin/kanamycin resistance gene of Tn5 (Neor/Kanr), and polyadenylation signals from the herpes simplex virus thymidine kinase (HSV TK poly A) geneallows stably transfected eukaryotic cells to be selected using G418. A bacterial promoter (P) upstream of this cassette drives expression of the gene encoding kanamycin resistance in E. coli.

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 ℃.