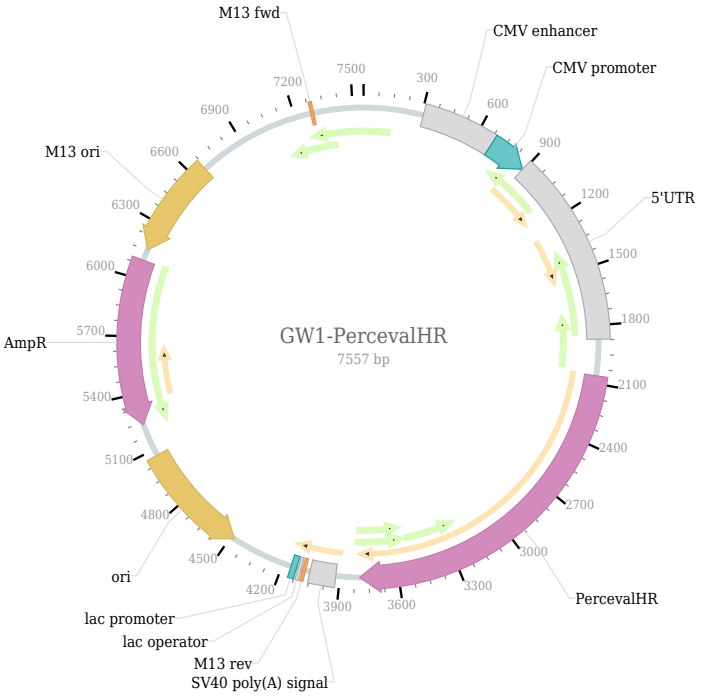
GW1-PercevalHR

载体编号 Vector ID	V016715
抗性 Antibiotic Resistance	Ampicillin
长度 Length	7557 bp
载体类型 Vector Type	Protein expression
宿主 Host	Mammalian cells

产品信息

复制子 Replication Origin	ori
启动子 Promoter	CMV
培养菌株 Growth Strain(s)	DH10B
培养温度 Growth Temperature	37℃
备注 Comment	GW1-PercevalHR is a mammalian expression vector (CMV promoter) of PercevalHR, a fluorescent sensor of ATP-to-ADP ratio. PercevalHR is a ratiometric ATP:ADP biosensor made of a nucleotide-sensing GlnK domain fused with circularly permuted Venus (cpVenus). MgATP and ADP compete for the sensor's binding pocket, triggering distinct fluorescence rises at 500 nm and 420 nm respectively. The F_{500}/F_{420} ratio directly reports ATP/ADP levels with fast (seconds-scale) responses. Its pH bias can be corrected via pHRed, and it supports one/two-photon live-cell imaging.

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 ℃.