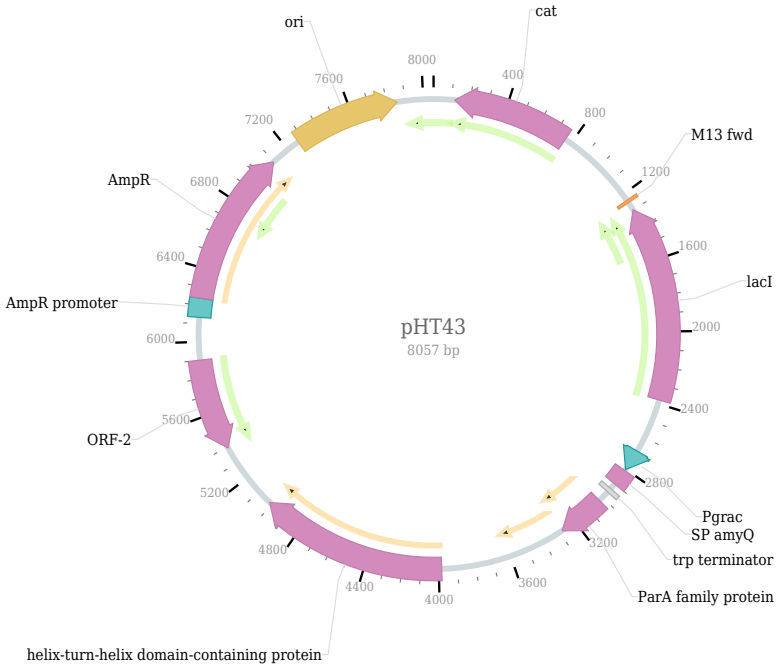
pHT43

载体编号 Vector ID	V011875
抗性 Antibiotic Resistance	Ampicillin, Chloramphenicol
长度 Length	8057 bp
载体类型 Vector Type	Bacillus subtilis expression vectors

产品信息

复制子 Replication Origin	ori
拷贝数 Copy Number	High copy number
启动子 Promoter	Pgrac
克隆方法 Cloning Method	Enzyme digestion and ligation
5' 引物 5' Primer	LacI-R□GGCATACTCTGCGACATCGT
融合标签 Fusion Tag	N-amyQ
培养菌株 Growth Strain(s)	DH10B
培养温度 Growth Temperature	37℃
备注 Comment	Introducing an inducible expression system into the groESL operon allows for co-expression of a pre-aggregation chaperonin (groESL) and a target protein (bgaB). This system utilizes IPTG to induce co-expression of 80% chaperonin and 20% target protein. Combining this system with the chaperonin-encoding genes htpG and pbpE resulted in 10-13% induced chaperonin. The method was further extended to co-express and identify the amyQα-amylase and the A and B subunits of glutamate synthase using Western blotting. To enhance expression, the chaperonin-protein complex was inserted into a high-copy SD plasmid with multiple cloning sites. The amyQ gene region of α-amylase was inserted into the SD plasmid cloning region, yielding pHT01, which facilitated the expression of a soluble chaperonin-protein complex.

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 ℃.