

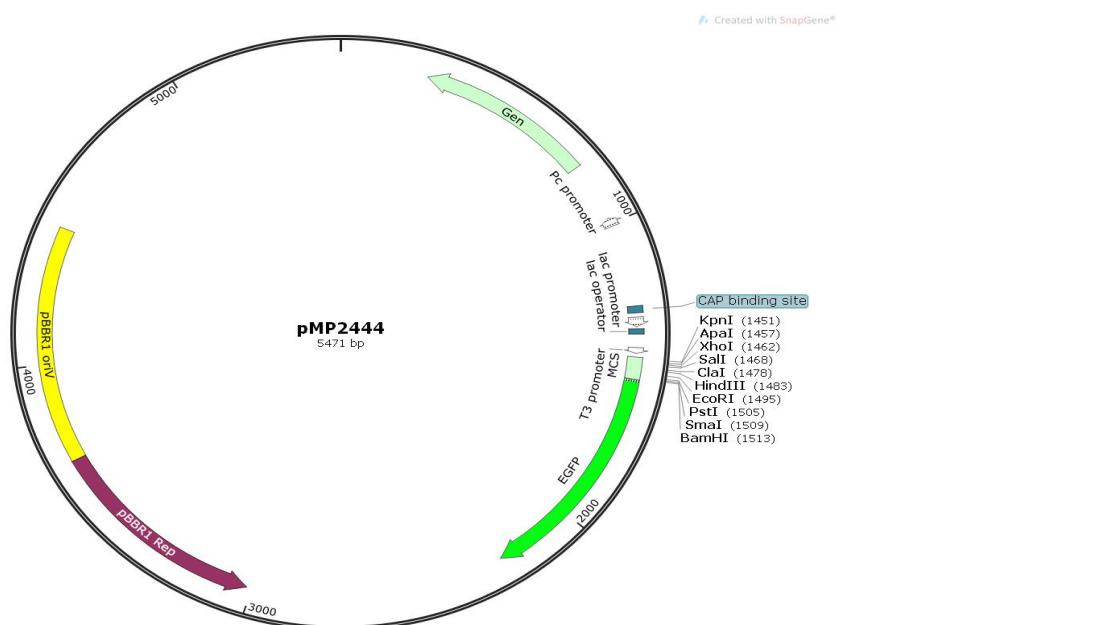
## 基本信息

原核抗性:	庆大霉素 Gen
平台编号:	bio-110475
克隆菌株:	大肠杆菌 DH5α
培养条件:	37°C

## 质粒简介

pMP2444 是一个广宿主原核绿色荧光蛋白表达质粒。

## 质粒图谱





### 质粒序列

```

LOCUS       Exported                                5471 bp ds-DNA   circular SYN
04-DEC-2017
DEFINITION  synthetic circular DNA
FEATURES             Location/Qualifiers
     source           1..5471
                     /organism="synthetic DNA construct"
                     /mol_type="other DNA"
     CDS             complement(261..794)
                     /codon_start=1
                     /gene="aacC1"
                     /product="gentamycin acetyltransferase"
                     /label=Gen
                     /note="confers resistance to gentamycin"
                     /translation="MLRSSNDVTQQGSRPKTKLGGSSMGIIRTCRL
GPDQVKSMRAALD
LFGREFGDVATYSQHQPDSYLGNNLLRSKTFIALAAFDQEAVVGAL
AAYVLPREFEQPRS
EIYIYDLAVSGEHRRQGIATALINLLKHEANALGAYVIYVQADYGD
DPAVALYTKLGIR
EEVMHFDIDPSTAT"
     promoter        complement(983..1011)
                     /gene="intI1 (promoter lies within the coding
sequence) "
                     /label=Pc promoter
                     /note="class 1 integron promoter"
     protein_bind    1281..1302
                     /label=CAP binding site
                     /bound_moiety="E. coli catabolite activator
protein"
                     /note="CAP binding activates transcription in the
presence
of cAMP."
     promoter        1317..1347
                     /label=lac promoter
                     /note="promoter for the E. coli lac operon"
     protein_bind    1355..1371
                     /label=lac operator
                     /bound_moiety="lac repressor encoded by lacI"
                     /note="The lac repressor binds to the lac operator
to

```



```
inhibit transcription in E. coli. This inhibition
can be
relieved by adding lactose or
isopropyl-beta-D-thiogalactopyranoside (IPTG)."
promoter      1416..1434
               /label=T3 promoter
               /note="promoter for bacteriophage T3 RNA
polymerase"
misc_feature   1447..1518
               /label=MCS
CDS            1520..2239
               /codon_start=1
               /product="enhanced GFP"
               /label=EGFP
               /note="mammalian codon-optimized"
               /translation="MVSKGEELFTGVVPILVELDGDVNGHKFSVSG
EGEGDATYGKLTLL
KFICTTGKLPVPWPTLVTTLTYGVCFSRYPDHMKQHDFFKSAMPE
GYVQERTIFFKDD
GNYKTRAEVVKFEGDTLVNRIELKGIDFKEDGNILGHKLEYNNSHN
VYIMADKQKNGIK
VNFKIRHNIEDGSVQLADHYQQNTPIGDGPVLLPDNHYLSTQSALS
KDPNEKRDHMVLL
EFVTAAGITLGMDELYK"
CDS            complement(3017..3679)
               /codon_start=1
               /product="replication protein for the
broad-host-range
plasmid pBBR1 from Bordetella bronchiseptica"
               /label=pBBR1 Rep
               /translation="MATQSREIGIQAKNKPGHWVQTERKAHEAWAG
LIARKPTAAMLLH
HLVAQMGHQNAVVSQKTLKLIGRSLRTVQYAVKDLVAERWISVV
KLNGPGTVSAYVV
NDRVAWGQPRDQLRLSVFSAVVVDHDDQDESLLGHGLRRIPTLY
PGEQQLP TGP GEE
PPSQPGIPGMEPDLPALTEEWEERRGQQLPMPDEPCFLDDGEP L
EPTRVTLPRR"
rep_origin     3680..4449
               /label=pBBR1 oriV
               /note="replication origin of the
broad-host-range plasmid
```



pBBR1 from *Bordetella bronchiseptica*; requires the pBBR1

Rep protein for replication"

## ORIGIN

```
1 accttcggga ggcctgaag cccgttctgg acgcccctggg gccgttgaat
cgggatatgc
61 aggccaaggc cgccgcgatc atcaaggccg tgggcgaaaa gctgctgacg
gaacagcggg
121 aagtccagcg ccagaaacag gccagcgcc agcaggaacg cgggcgcgca
catttccccg
181 aaaagtgcca cctggcggcg ttgtgacaat ttaccgaaca actccgcggc
cgggaagccg
241 atctcggctt gaacgaattg ttaggtggcg gtacttgggt cgatatcaaa
gtgcatcact
301 tcttcccgta tgcccaactt tgtatagaga gccactgcgg gatcgtcacc
gtaatctgct
361 tgcacgtaga tcacataagc accaagcgcg ttggcctcat gcttgaggag
attgatgagc
421 gcggtggcaa tgccctgcct ccggtgctcg ccggagactg cgagatcata
gatatagatc
481 tcaactacgcg gctgctcaaa cctgggcaga acgtaagccg cgagagcggc
aacaaccgct
541 tcttggtcga aggcagcaag cgcgatgaat gtcttactac ggagcaagtt
cccgaggtaa
601 tcggagtccg gctgatgttg ggagtaggtg gctacgtctc cgaactcacg
accgaaaaga
661 tcaagagcag cccgcatgga tttgacttgg tcagggccga gcctacatgt
gcgaatgatg
721 ccatacttg agccacctaa ctttgtttta gggcgactgc cctgctgcgt
aacatcgttg
781 ctgctgcgta acatcgttgc tgctcataa catcaaact cgaccacgg
cgtaacgcgc
841 ttgctgcttg gatgcccagag gcatagactg tacaacaaaa cagtcataac
aagccatgaa
901 aaccgccact gcgccgttac caccgctgcg ttcggtcaag gttctggacc
agttgcgtga
961 gcgcatacgc tacttgcatt acagtttacg aaccgaacag gcttatgtca
actgggttcg
1021 tgccttcac cgtttccacg gtgtgcgtcc atgggcaaat attatacgc
agcgacaag
1081 gtgctgatgc cgctggcgat tcaggttcat catgccgttt gtgatggctt
ccatgtcggc
```



## 微生物菌种查询网

1141 agaatgctta atgaattaca acagttttta tgcacgccc caatacgcga  
accgcctctc

1201 cccgcgcggt ggccgattca ttaatgcagc tggcacgaca ggtttcccga  
ctggaaagcg

1261 ggcagtgagc gcaacgcaat taatgtgagt tagctcactc attaggcacc  
ccaggcttta

1321 cactttatgc ttccggctcg tatgttgtgt ggaattgtga gcggataaca  
atttcacaca

1381 ggaaacagct atgacatga ttacgccaag cgcgcaatta accctcacta  
aagggaacaa

1441 aagctgggta ccgggcccc cctcgaggtc gacggtatcg ataagcttga  
tatcgaattc

1501 ctgcagccc ggggatcaa tggtagcaa gggcgaggag ctgttcaccg  
gggtggtgcc

1561 catcctggtc gagctggagc gcgacgtaa cggccacaag ttcagcgtgt  
ccggcgaggg

1621 cgagggcgat gccacctac gcaagctgac cctgaagttc atctgcacca  
ccggcaagct

1681 gccctgccc tggcccacc tcgtgaccac cctgacctac ggcgtgcagt  
gcttcagccg

1741 ctaccccgac cacatgaagc agcagactt cttcaagtcc gccatgcccg  
aaggctacgt

1801 ccaggagcgc accatcttct tcaaggacga cggcaactac aagaccgcg  
ccgaggtgaa

1861 gttcgagggc gacaccctgg tgaaccgcat cgagctgaag ggcacgact  
tcaaggagga

1921 cggcaacatc ctggggcaca agctggagta caactacaac agccacaacg  
tctatatcat

1981 ggccgacaag cagaagaacg gcatcaaggt gaacttcaag atccgccaca  
acatcgagga

2041 cggcagcgtg cagctcgccg accactacca gcagaacacc cccatcggcg  
acggccccgt

2101 gctgctgccc gacaaccact acctgagcac ccagtccgcc ctgagcaaag  
acccaacga

2161 gaagcgcgat cacatggtcc tgctggagtt cgtgaccgcc gccgggatca  
ctctcgcat

2221 ggacgagctg tacaagtagt ctagattagt ggagctcaa ttcgccctat  
agtgagtcgt

2281 attacgcgcg ctactggcc gtcgttttac aacgtcgtga ctgggaaaac  
cctggcgta

2341 cccaacttaa tcgccttgca gcacatcccc ctttcgcccag ctggcgtaat  
agcgaagagg



2401 cccgcaccga tcgcccttcc caacagttgc gcagcctgaa tggcgaatgg  
aaattgtaag  
2461 cgттаатatt ttgttaaаat tcgсgtтааа tttttgttaa atcagctcat  
tttttaacca  
2521 ataggccgac tgcgatgagt ggcagggcgg ggcgтаattt ttttaaggca  
gttattggtg  
2581 cccttaaacg cctggtgcta cgctgaata agtgataata agcggatgaa  
tggcagaaat  
2641 tcgaaagcaa attcgacccg gtcgtcggtt cagggcaggg tcgттаааа  
gccgcttatg  
2701 tctattgctg gtttaccggt ttattgacta ccggaagcag tgtgaccgtg  
tgctttctcaa  
2761 atgcctgagg ccagtttgct caggctctcc ccgtggaggt aataattgac  
gatatgatca  
2821 tttattctgc ctcccagagc ctgataaaaa cggтгаатcc gttagcgagg  
tgccgcccggc  
2881 ttccattcag gtcgagggtg cccggctcca tgcaccgсga cgcaacgcgg  
ggaggcagac  
2941 aaggtatagg gcggcgaggc ggctacagcc gatagtctgg aacagcgcac  
ttacgggttg  
3001 ctgсgcaacc caagtгctac cggcgсggca gcgtgacccg tgtcggcggc  
tccaacggct  
3061 cgccatcgtc cagaaaacac ggctcatcgg gcatcggcag gcgctgctgc  
ccgcgcccgtt  
3121 cccattcctc cgtttcggtc aaggctggca ggtctggttc catgcccgga  
atgccgggct  
3181 ggctggggcg ctctcgccg gggccggtcg gtagttgctg ctgcccgga  
tacagggtcg  
3241 ggatgcggcg caggtcgcca tgccccаааа gcgattcgtc ctggtcgctg  
tgatcaacca  
3301 ccacggcggc actgaacacc gacaggcсga actggtcгcg gggctggccc  
cacgccacgc  
3361 ggtcattgac cacgtaggcc gacacggtgc cggggccggt gagcttcacg  
acggagatcc  
3421 agcgtcggc caccaagtcc ttgactgсgt attggaccgt ccgcaaagaa  
cgtccgatga  
3481 gcttgгaaag tgtcttctgг ctgaccacca cggcgttctg gtggcccatc  
tgcgccacga  
3541 ggtgatgcag cagcattgcc gccgtggggt tcctcgcaat aagcccggcc  
cacgcctcat  
3601 gcgctttgcg ttccgtttgc acccagtgac cgggcttggt cttggcttga  
atgccgattt



3661 ctctggactg cgtggccatg cttatctcca tgcggtaggg tgccgcacgg  
ttgcggcacc  
3721 atgcgcaatc agctgcaact tttcggcagc gcgacaaca ttatgcggtg  
cgtaaaagtg  
3781 gcagtcaatt acagattttc tttaacctac gcaatgagct attgcggggg  
gtgccgcaat  
3841 gagctggtgc gtacccccct tttttaagtt gttgattttt aagtctttcg  
catttcgccc  
3901 tataatctagt tctttggtgc ccaagaaggg gcacccctgc ggggttcccc  
cacgccttcg  
3961 gcgcggtcc ccctccggca aaaagtggcc cctccggggc ttgttgatcg  
actgcgaggc  
4021 cttcggcctt gcccaagggt gcgctgcccc cttggaacce ccgcactcgc  
cgccgtgagg  
4081 ctcggggggc aggcggggcg gcttcgcctt cgactgcccc cactcgcata  
ggcttggtgc  
4141 gttccaggcg cgtcaaggcc aagccgctgc gcggtcgtg cgcgagcctt  
gaccgcctt  
4201 ccaacttggtg tccaaccggc aagcgaagcg cgcaggccgc aggcgggagg  
cttttcccca  
4261 gagaaaatta aaaaaattga tggggcaagg ccgcaggccg cgcagttgga  
gccggtgggt  
4321 atgtggtcga aggctgggta gccggtgggc aatccctgtg gtcaagctcg  
tgggcaggcg  
4381 cagcctgtcc atcagcttgt ccagcagggt tgtccacggg ccgagcgaag  
cgagccagcc  
4441 ggtggccgct cgcggccatc gtccacatat ccacgggctg gcaagggagc  
gcagcgaccg  
4501 cgcagggca agcccggaga gcaagcccgt agggcgccgc agccgcccga  
ggcggtcag  
4561 actttgcgaa gcaaagtcta gtgagtatac tcaagcattg agtggcccgc  
cggaggcacc  
4621 gccttgctgc gccccgctg agccggttgg acaccaaag ggaggggag  
gcatggcggc  
4681 atacgcatc atgcgatgca agaagctggc gaaaatgggc aacgtggcgg  
ccagtctcaa  
4741 gcagcctac cgcgagcgcg agacgccccaa cgctgacgcc agcaggacgc  
cagagaacga  
4801 gcaactggcg gccagcagca ccgatgaagc gatgggcccga ctgcgagat  
tgctgccaga  
4861 gaagcggcgc aaggacgctg tgttggcggc cgagtacgtc atgacggcca  
gcccggaatg



---

4921 gtggaagtcg gccagccaag aacagcaggc ggcgttcttc gagaaggcgc  
acaagtggct  
4981 ggcggacaag tacggggcgg atcgcacgtg gacggccagc atccaccgtg  
acgaaaccag  
5041 cccgcacatg accgcgttcg tggtgccgct gacgcaggac ggcaggctgt  
cggccaagga  
5101 gttcatcggc aacaaagcgc agatgaccgc cgaccagacc acgtttgcgg  
ccgctgtggc  
5161 cgatctaggg ctgcaacggg gcatcgaggg cagcaaggca cgtcacacgc  
gcattcaggc  
5221 gttctacgag gccctggagc ggccaccagt gggccacgtc accatcagcc  
cgcaagcggc  
5281 cgagccacgc gcctatgcac cgcagggatt ggccgaaaag ctgggaatct  
caaagcgcgt  
5341 tgagacgccg gaagccgtgg cgcaccggct gacaaaagcg gttcggcagg  
ggtatgagcc  
5401 tgccctacag gccgcccag gagcgcgtga gatgcgcaag aaggccgatc  
aagccaaga  
5461 gacggcccga g  
//

微生物菌种