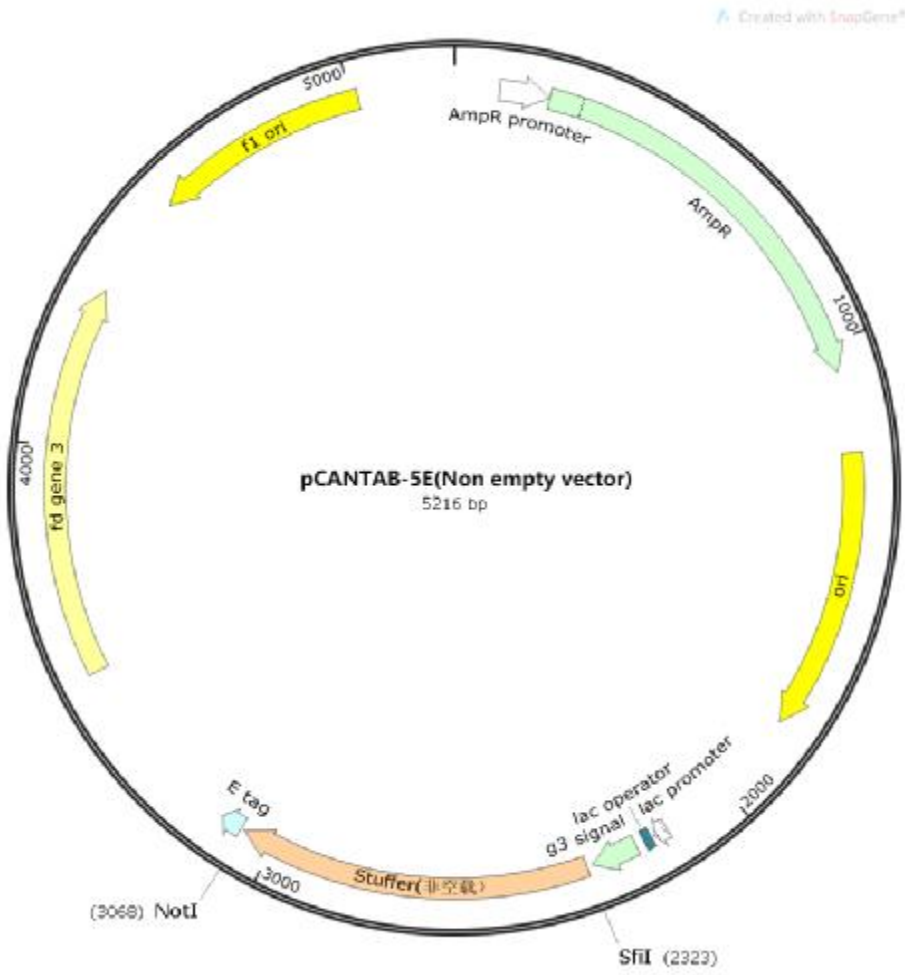
pCANTAB-5E Plasmid

PVT10573 2ug Expiry date June.2020

pCANTAB-5E Plasmid Information

Function E.coli Cloning plasmid
Promoter: Lac/lac promoter
Plasmid size: 5216bp
Plasmid tagging: N-g3 signal, C-E tag
Prokaryotic resistance: ampicillin Amp
Clone strain: Escherichia coli Stbl3
Culture conditions: 37 C, aerobic, LB

pCANTAB-5E Map



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pCANTAB-5E Sequence

LOCUS Exported 5216 bp ds-DNA circular SYN 27-OCT-2017

DEFINITION synthetic circular DNA

KEYWORDS pCANTAB-5E (Non empty vector)

SOURCE synthetic DNA construct

ORGANISM synthetic DNA construct

REFERENCE 1 (bases 1 to 5216)

AUTHORS .

TITLE Direct Submission

FEATURES Location/Qualifiers

source 1..5216

/organism="synthetic DNA construct"

/mol_type="other DNA"

promoter 96..200

/gene="bla"

/label=AmpR promoter

CDS 201..1061

/codon_start=1

/gene="bla"

/product="beta-lactamase"

/label=AmpR

/note="confers resistance to ampicillin, carbenicillin, and

related antibiotics"

/translation="MSIQHFRVALIPFFAAFCLPVFAHPETLVKVKDAEDQLGA
RVGYI

ELDLNSGKILESFRPEERFPMMSTFKVLLCGAVLSRIDAGQEQLGRRIHYS
QNDLVEYS

PVTEKHLTDGMTVRELCSAAITMSDNTAANLLLTTIGGPKELTAFLHNMG
DHVTRLDRW

EPELNEAIPNDERDTTMPVAMATTLRKLLTGELLTLASRQQLIDWMEADK
VAGPLLRSA

LPAGWFIADKSGAGERGSRGIIAALGPDGKPSRIVVIYTTGSQATMDERN
RQIAEIGAS

LIKHW"

rep_origin 1232..1820

/direction=RIGHT

/label=ori

/note="high-copy-number colE1/pMB1/pBR322/pUC origin of

replication"

promoter 2144..2174

/label=lac promoter

/note="promoter for the E. coli lac operon"

protein_bind 2182..2198

/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)."

misc_feature 2218..2315

/label=g3 signal

misc_feature 2329..3066

/label=Stuffer(非空载）

misc_feature 3075..3120

/label=E tag

CDS 3520..4338

/codon_start=1

/label=fd gene 3

/translation="MFQNNRFRNRQGALTVYTGTVTQGTDPVKTYYQYTPVS
SKAMYDA

YWNGKFRDCAFHSGFNEDPFVCEYQGQSSDLPQPPVNAGGGSGGGSG
GGSEGGGSEGGG

SEGGGSEGGGSGGGSGSGDFDYEKMANANKGAMTENADENALQSDAK
GKLDSVATDYGA

AIDGFIGDVSGLANGNGATGDFAGSNSQMAQVGDGDNSPLMNNFRQY
LPSLPQSVECRP

YVFGAGKPYEFSIDCDKINLFRGVFAFLLYVATFMYVFSTFANILRNKES"

rep_origin complement(4560..5015)

/direction=LEFT

/label=f1 ori

/note="f1 bacteriophage origin of replication; arrow

indicates direction of (+) strand synthesis"

ORIGIN

1 gacgaaaggg cctcgtgata cgcctatttt tataggttaa tgtcatgata ataatggttt

61 cttagacgtc aggtggcact tttcggggaa atgtgcgcgg aacccctatt tgtttatttt

121 tctaaataca ttcaaatatg tatccgctca tgagacaata accctgataa atgcttcaat

181 aatattgaaa aaggaagagt atgagtattc aacatttccg tgtcgccctt attccctttt

241 ttgcggcatt ttgccttcct gtttttgctc acccagaaac gctggtgaaa gtaaaagatg

301 ctgaagatca gttgggtgct cgagtgggtt acatcgaact ggatctcaac agcggtaaga

361 tccttgagag ttttcgcccc gaagaacgtt ttccaatgat gagcactttt aaagttctgc

421 tatgtggcgc ggtattatcc cgtattgacg ccgggcaaga gcaactcggt cgccgcatac

481 actattctca gaatgacttg gttgagtact caccagtcac agaaaagcat cttacggatg

541 gcatgacagt aagagaatta tgcagtgctg ccataaccat gagtgataac actgcggcca

601 acttacttct gacaacgatc ggaggaccga aggagctaac cgcttttttg cacaacatgg

661 gggatcatgt aactcgcctt gatcgttggg aaccggagct gaatgaagcc ataccaaacg

721 acgagcgtga caccacgatg cctgtagcaa tggcaacaac gttgcgcaaa ctattaactg

781 gcgaactact tactctagct tcccggcaac aattaataga ctggatggag gcggataaag

841 ttgcaggacc acttctgcgc tcggcccttc cggctggctg gtttattgct gataaatctg

901 gagccggtga gcgtgggtct cgcggtatca ttgcagcact ggggccagat ggtaagccct

961 cccgtatcgt agttatctac acgacgggga gtcaggcaac tatggatgaa cgaaatagac

1021 agatcgctga gataggtgcc tcactgatta agcattggta actgtcagac caagtttact

1081 catatatact ttagattgat ttaaaacttc atttttaatt taaaaggatc taggtgaaga

1141 tccttttga taatctcatg accaaaatcc cttaacgtga gttttcgttc cactgagcgt

1201 cagaccccgt agaaaagatc aaaggatctt cttgagatcc ttttttttctg cgcgtaatct

1261 gctgcttgca aacaaaaaaa ccaccgctac cagcggtggt ttgtttgccg gatcaagagc

1321 taccaactct ttttccgaag gtaactggct tcagcagagc gcagatacca aatactgttc

1381 ttctagtgta gccgtagtta ggccaccact tcaagaactc tgtagcaccg cctacatacc

1441 tcgctctgct aatcctgtta ccagtggctg ctgccagtgg cgataagtcg tgtcttaccg

1501 ggttggactc aagacgatag ttaccggata aggcgcagcg gtcgggctga acgggggttt

1561 cgtgcataca gcccagcttg gagcgaacga cctacaccga actgagatac ctacagcgtg

1621 agcattgaga aagcgccacg cttcccgaag ggagaaaggc ggacaggtat ccggtaagcg

1681 gcagggtcgg aacaggagag cgcacgaggg agcttccagg gggaaacgcc tggtatcttt

1741 atagtcctgt cgggtttcgc cacctctgac ttgagcgtcg atttttgtga tgctcgtcag

1801 gggggcggag cctatggaaa aacgccagca acgcggcctt tttacggttc ctggcctttt

1861 gctggccttt tgctcacatg ttctttcctg cgttatcccc tgattctgtg gataaccgta

1921 ttaccgcctt tgagtgagct gataccgctc gccgcagccg aacgaccgag cgcagcgagt

1981 cagtgagcga ggaagcggaa gagcgcccaa tacgcaaacc gcctctcccc gcgcgttggc

2041 cgattcatta atgcagctgg cacgacaggt ttcccgactg gaaagcgggc agtgagcgca

2101 acgcaattaa tgtgagttag ctcactcatt aggcacccca ggctttacac tttatgcttc

2161 cggctcgtat gttgtgtgga attgtgagcg gataacaatt tcacacagga aacagctatg

2221 accatgatta cgccaagctt tggagccttt tttttggaga ttttcaacgt gaaaaaatta

2281 ttattcgcaa ttcctttagt tgttcctttc tatgcggccc agccggccat ggcccaggtg

2341 aagctgcagc agtcaggacc tggcctggtg gcgccctcac agagcctgtc catcacatgc

2401 accgtctcag ggttttcatt aaccagctat ggtgtacact gggttcgcca gcctccagga

2461 aagggtctgg agtggctggg agtaatatgg gctggtggaa gcacaaacta taattcagct

2521 ctcaaatcca gactgaacat cagcaaggac aactccaaga gccaagtttt cttaaaaatg

2581 aacagtctcc aaactgatga cacagccatg tactactgtg ccagaaactg gggcagctac

2641 tggtacttcg atgtctgggg ccaaggccac ggtcaccgtc tcctcagtgg aggcggttca

2701 ggcggaggtg gcggaggtgg ctctggcggt ggcggatcgg acattgagct cacccagtct

2761 ccagcaatca tgtctgcatc tccaggggaa aaggtcacca tgacctgcag ggccagctca

2821 agtataagtt ccagttactt gcactggtac cagcagaagt caggcgcttc ccccaaaccc

2881 ttgattcata ggacatccaa cctggcttct ggagtcccag ctcgcttcag tggcagtggg

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3061 aaacgggcgg ccgcaggtgc gccggtgccg tatccggatc cgctggaacc gcgtgccgca

3121 tagactgttg aaagttgttt agcaaaacct catacagaaa attcatttac taacgtctgg

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3241 ggcgttgtgg tttgtactgg tgacgaaact cagtgttacg gtacatgggt tcctattggg

3301 cttgctatcc ctgaaaatga gggtggtggc tctgagggtg gcggttctga gggtggcggt

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3421 tatatcaacc ctctcgacgg cacttatccg cctggtactg agcaaaaccc cgctaatcct

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3661 aacggtaaat tcagagactg cgctttccat tctggcttta atgaggatcc attcgtttgt

3721 gaatatcaag gccaatcgtc tgacctgcct caacctcctg tcaatgctgg cggcggctct

3781 ggtggtggtt ctggtggcgg ctctgagggt ggcggctctg agggtggcgg ttctgagggt

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4141 cgtcaatatt taccttcttt gcctcagtcg gttgaatgtc gcccttatgt ctttggcgct

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5161 cgtctccggg agctgcatgt gtcagaggtt ttcaccgtca tcaccgaaac gcgcga

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