

Shuttle Vector pMCSU5 for Gene Expression in *Mycobacterium tuberculosis* and *Escherichia coli***Catalog No. NR-13407**

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Product Description: pMCSU5 is a shuttle vector that can be used for gene expression in either *Escherichia coli* or *Mycobacterium tuberculosis*. The pMCSU5 vector contains origins of replication for both organisms, *Escherichia coli* bacteriophage λ *attR* sites, a *Streptomyces coelicolor* tetracycline operator sequence, as well as the genes that confer resistance to kanamycin (Km) and chloramphenicol (Cm).

Lot: 59388157**Manufacturing Date: 30JUN2010**

QC testing was performed by Colorado State University under the TB Vaccine Testing and Research Materials Contract (NIH). The Colorado State University documentation is attached.

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Recombinant Plasmid Quality Control Record

Plasmid designation pMCSU5

BEI Product Item Number NR-13407

BEI Lot Number 59388157

CSU Lot Number 10.pMCSU5.6.30

Notebook/Pgs Notebook #5; Page 23 (NKG)

Notebook detail _____

Media used LB

Culture size 250 mL

Growth conditions: Temp 37 Time 18 hrs Shaker speed 200

Plasmid prep type (mini/maxi, kit name or protocol) Qiagen HiSpeed Plasmid Midi Kit (Cat. No. 12643)

Plasmid prep detail: Midi prep Qia100 tip and elution conditions

Strain used to produce plasmid DB3.1

E. coli ori? Y/N Y

Contains Mycobacterial ori? Y/N Y

Final concentration 87.75 ng/μL

Total Stocks 63

Buffer TE

Method used for quantifying nanodrop

QC gel – N/A (no insert)

Restriction enzymes used in QC analysis N/A

Expected size of restriction fragments

Vector N/A

Insert N/A

Other N/A

Gel description file number, % agarose, buffer N/A

Recombination site/region confirmed by sequencing: Y

Note: Sequencing was performed with two primers –

1. tetF Primer sequence 5' TGGCATCCGTGGCGCGGC 3'

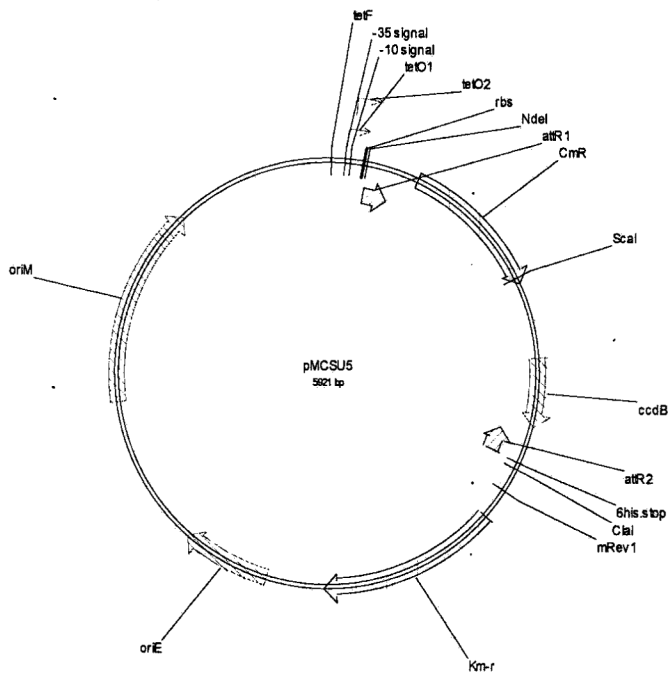
2. mRev1 Primer sequence 5' GACGTCAGGTGGCTAGCT 3'

Sequence file: CSU5-R
CSU5F2

Date: 7/10/10

Date: 7/14/10

Plasmid Map:



Generated by Nicholas May Date 8/19/10

Supervisor Luella Date 8/20/10

Form 4.2.09.KMD