b|e|i RESOURCES

SUPPORTING INFECTIOUS DISEASE RESEARCH

Shuttle Vector pMCSU1 for Gene Expression in *Mycobacterium tuberculosis* and *Escherichia coli*

Catalog No. NR-13403

This reagent is the tangible property of the U.S. Government.

Product Description: pMCSU1 is a shuttle vector that can be used for gene expression in either *Escherichia coli* or *Mycobacterium tuberculosis*. The pMCSU1 vector contains origins of replication for both organisms, *Escherichia coli* bacteriophage λ *att*R sites, a *Mycobacterium BCG* hsp60 promoter region, as well as the genes that confer resistance to kanamycin (Km), hygromycin B (Hyg) and chloramphenicol (Cm).

Lot: 59310209   **Manufacturing Date: 14JUN2010**

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.

Support Provided by NIAID

Biodefense and Emerging Infections Research Resources Repository   E-mail: contact@beiresources.org
www.beiresources.org   Tel: 800-359-7370
                                                                          Fax: 703-365-2898

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Recombinant Plasmid Quality Control Record

Plasmid designation pMCSU1

BEI Product Item Number NR-13403

BEI Lot Number   59310209

CSU Lot Number   10.pMCSU1.6.14

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   48.35 ng/µL

Total Stocks   32

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

<table>
<tr><td>Vector</td><td>N/A</td></tr>
<tr><td>Insert</td><td>N/A</td></tr>
<tr><td>Other</td><td>N/A</td></tr>
</table>

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

Recombination site/region confirmed by DNA Sequencing Y/N   Y
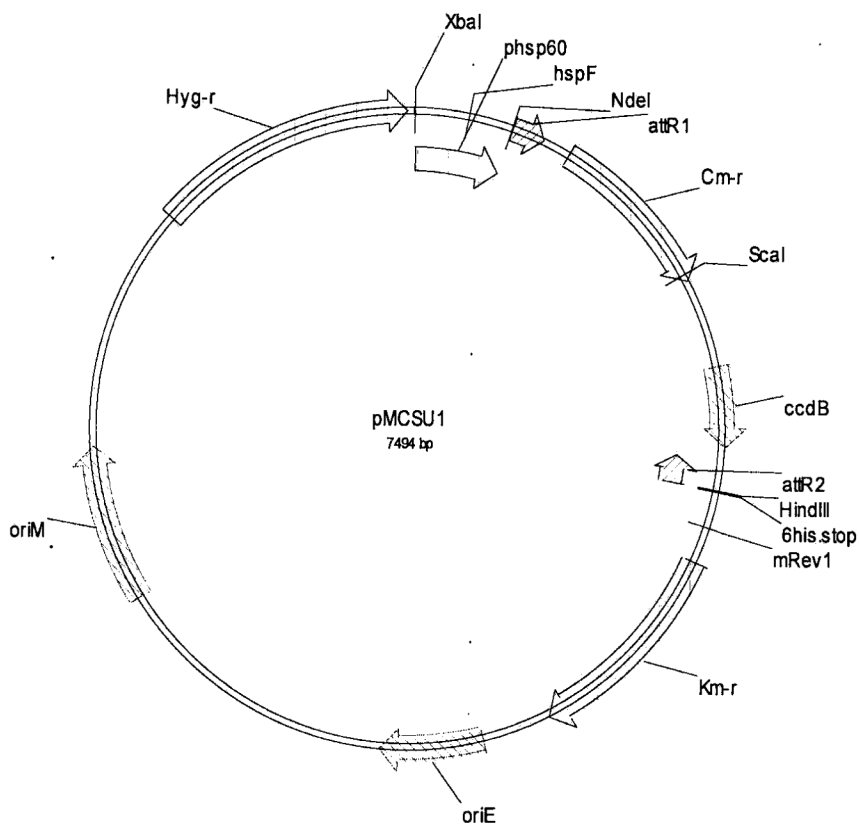
Primers used:
1. hspF Primer sequence 5' CGGTGAGTGCTAGGTCGGGACGG 3'
2. mRev1 Primer sequence 5' GACGTCAGGTGGCTAGCT 3'

Sequence file: CSU-1F/CSU-1R   Date   6/18/2010

Plasmid Map:

Generated by _Nicholas May_   Date _7/13/2010_

Supervisor _____   Date _8/20/10_

Form 4.2.09.KMD