# Certificate of Analysis for NR-13403

## 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: 59388155** **Manufacturing Date: 30JUN2010**

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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.

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected by the contractor to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.



Support Provided by NIAID

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

# Recombinant Plasmid Quality Control Record

Plasmid designation pMCSU1

BEI Product Item Number NR-13403

BEI Lot Number 59388155

CSU Lot Number 10.pMCSU1.6.30

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 56.95 ng/µL

Total Stocks 43

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

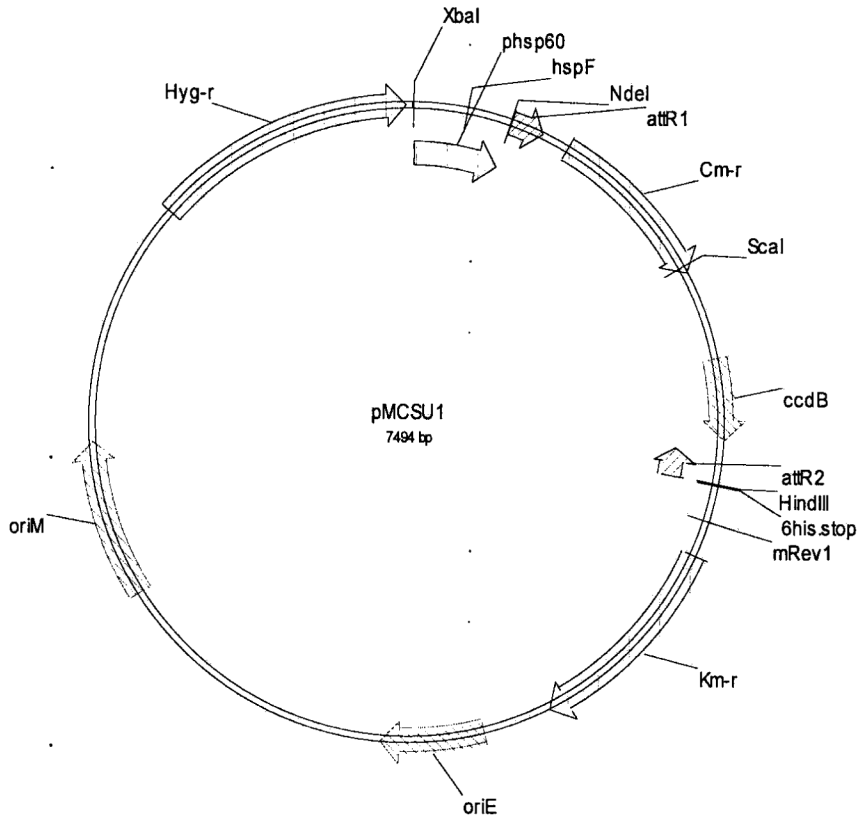
Recombination site/region confirmed by DNA sequencing: Y

Note: Sequencing was performed with two primers –

1. hspF Primer sequence 5' CGGTGAGTGCTAGGTCGGGACGG 3'
2. mRev1 Primer sequence 5' GACGTCAGGTGGCTAGCT 3'

Sequence file: CSU1-F/CSU1-R Date: 7/12/10

Plasmid Map:




Generated by Nicholas May Date 8/19/10

Supervisor [signature] Date 8/20/10

Form 4.2.09.KMD