

Plasmid pMRLB.58 Containing Gene Rv3914 (Protein TrxC) from *Mycobacterium tuberculosis*

Catalog No. NR-13308

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Product Description: NR-13308 is a recombinant expression vector containing *Mycobacterium tuberculosis* gene Rv3914, which encodes thioredoxin C, TrxC. Gene Rv3914 was amplified by PCR and cloned into pET23b for expression in *Escherichia coli*.

Lot: 07.EC.10.18

Manufacturing Date: 18OCT2007

TEST	SPECIFICATIONS	RESULTS
Agarose Gel Electrophoresis (see attached QC Gel)¹ Linearization with <i>NdeI</i> Linearization with <i>HindIII</i> Digestion with <i>NdeI</i> and <i>HindIII</i>	~ 3.94 kb ~ 3.94 kb ~ 0.35 kb (insert); ~ 3.59 kb (vector)	~ 3.94 kb ~ 3.94 kb ~ 0.35 kb; ~ 3.59 kb
Concentration by OD₂₆₀	Report results	0.05 µg/µL
Absorbance Ratio (OD₂₆₀/OD₂₈₀)	Report results	1.8

¹Performed by Colorado State University under the TB Vaccine Testing and Research Materials Contract (NIH)

Date: 31 AUG 2009

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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QC gel

Restriction enzymes used in QC analysis:

NdeI and HindIII

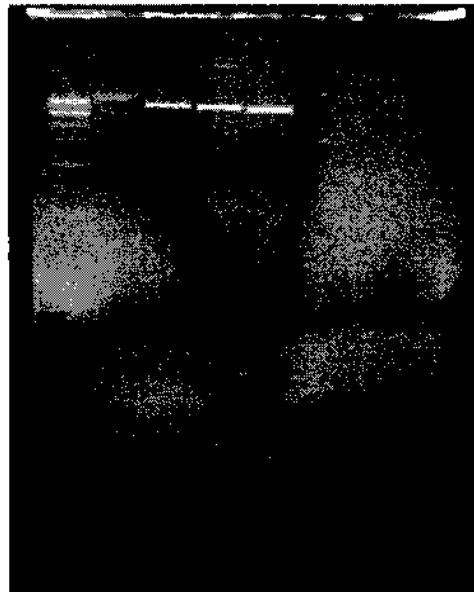
Expected size of restriction fragments

Vector 3.59 kb pET23b
Insert 0.347 Rv3914
Other 3.937 kb linearized plasmid – single digests

Gel description (file number, % agarose, buffer) pMRLB58-QCgel092007, 1.5%, 1X TAE

Molecular weight markers New England Biolabs 1 kb ladder

Kilobases	Mass (ng)
10.0	42
8.0	42
6.0	50
5.0	42
4.0	33
3.0	125
2.0	48
1.5	36
1.0	42
0.5	42



Left->right

NEB 1 kb ladder

pMRLB58.Rv3914 uncut

NdeI
pMRLB58.Rv3914/NdeI

HindIII
pMRLB58.Rv3914/HindIII

pMRLB58.Rv3914/NdeI + HindIII

Generated by Melody McConnell Date 10/15/2007

Supervisor [Signature] Date 10/18/2007