

**Vaccinia Virus, Western Reserve Genome, VAC(WR)-LoxP-GFP-BAC/Zeo, Recombinant in *Escherichia coli***

**Catalog No. NR-17606**

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**Product Description:** The entire vaccinia virus (VACV) Western Reserve (WR) genome with a green fluorescent protein (GFP) sequence, two loxP sites, and a zeomycin resistance gene was cloned as a bacterial artificial chromosome (BAC) and grown in *Escherichia coli* DH10β cells harboring a mini-lambda prophage.<sup>1</sup>

**Lot: 61922857**

**Manufacturing Date: 28AUG2013**

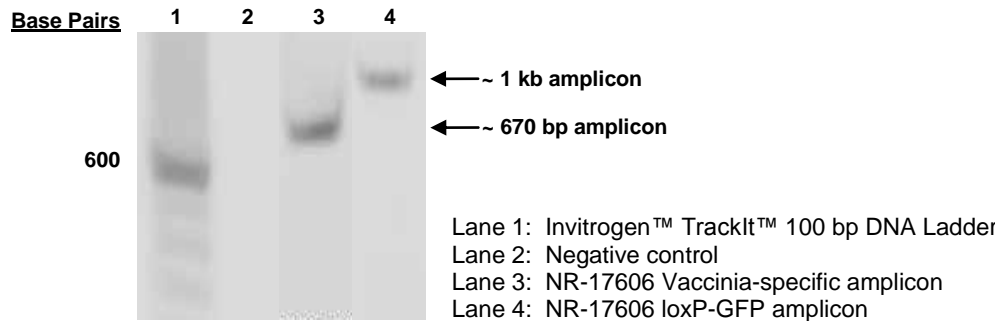
TEST	SPECIFICATIONS	RESULTS
Functional Activity by PCR Amplification <sup>2</sup>	Vaccinia-specific amplicon, region of high variability (~670 bp) GFP amplicon (~1 Kb)	Vaccinia-specific amplicon, region of high variability (~670 bp) (Figure 1) GFP amplicon (~1 Kb) (Figure 1)
Sequencing of Vaccinia-Specific Region (655 bp)	Consistent with VACV WR	100% identity with VACV WR (Genbank: AY243312)
Sequencing of GFP Amplicon (829 bp)	Consistent with GFP gene	100% identity with EGFP sequence from pEGFP.N1 vector (Genbank U55762)
Viability (post-vialing) <sup>3</sup>	Growth	Growth

<sup>1</sup>Grown in Luria-Bertani (LB) broth containing 25 µg/mL Zeocin™ (Invitrogen R25001) at 32°C in an aerobic atmosphere with shaking at 200 rpm

<sup>2</sup>Plasmid extracted using QIAprep Spin Miniprep Kit (QIAGEN® 27104) and amplified using iTaq™ DNA Polymerase (Bio-Rad 170-8870) and dNTP Mix (Bio-Rad 170-8874)

<sup>3</sup>Cultured overnight in LB broth containing 25 µg/mL Zeocin™ at 32°C in an aerobic atmosphere with shaking at 180 rpm, and on nutrient agar plates containing 25 µg/mL Zeocin™ at 32°C in an aerobic atmosphere

**Figure 1**



**Date:** 14 NOV 2014

**Signature:** *Michael G. Gynther*

**Title:** Technical Manager, BEI Authentication or designee

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