

Plasmid Containing Vaccinia Virus, Western Reserve Genome, VAC(WR)-LoxP-GFP-BAC

Catalog No. NR-17604

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Product Description: The entire vaccinia virus (VACV) Western Reserve (WR) genome with a green fluorescent protein (GFP) sequence and two loxP sites was cloned into a plasmid vector and grown in *Escherichia coli* DH10β cells as a bacterial artificial chromosome (BAC).¹

Lot: 61922854

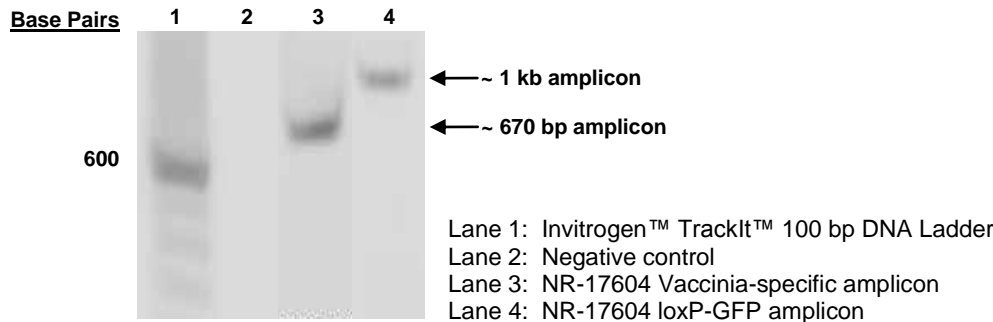
Manufacturing Date: 21AUG2013

TEST	SPECIFICATIONS	RESULTS
PicoGreen® Measurement DNA content DNA concentration	Report results Report results	56 ng 56 ng in 100 µL per vial (0.56 µg/mL)
Functional Activity by PCR Amplification²	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 (644 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)
Effective Transformation of <i>Escherichia coli</i>	≥ 100 colonies per ng	≥ 100 colonies per ng

¹Produced in in *Escherichia coli* DH10β cells and extracted using a Plasmid *Plus* Maxi Kit (QIAGEN® 12963)

²Amplified using iTaq DNA Polymerase (Bio-Rad 170-8870) and dNTP mix (Bio-Rad 170-8874)

Figure 1



Date: 13 NOV 2014

Signature: *Michael R. Gynther*

Title: Technical Manager, BEI Authentication or designee

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