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

Catalog No. NR-17604
This reagent is the property of the U.S. Government.

For research use only. Not for human use.

Contributor:
Bernard Moss M.D., Ph.D., Chief, Laboratory of Viral Diseases, National Institute of Allergy and Infectious Diseases (NIAID), National Institutes of Health (NIH), Bethesda, Maryland, USA

Manufacturer:
BEI Resources

Product Description:
The entire vaccinia virus (VACV) Western Reserve (WR) genome (~195 Kb) (NCBI Accession AY243312) 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). The loxP sites serve to achieve circularization of the virus genome in a Cre-loxP-mediated recombination system. Infectious vaccinia virus can be generated by transfecting the VACV-BAC plasmid into mammalian cells that have been infected with a nonreplicating fowlpox helper virus. 1,2

NR-17604 has been qualified for use in bacterial transformations.

Material Provided:
Each vial contains approximately 100 μL of plasmid DNA in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 7.0). The concentration, in μg per mL, is shown on the Certificate of Analysis for each lot.

Packaging/Storage:
NR-17604 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen on dry ice and should be stored at -60°C or colder immediately upon arrival. Freeze-thaw cycles should be minimized.

Functional Activity:
The generation of infectious VACV after mammalian cell transfections with NR-17604 has not been confirmed at BEI Resources. The presence of authentic VACV WR and GFP sequences in NR-17604 has been confirmed by PCR amplification and partial nucleotide sequencing of the plasmid insert. The sequence of the entire VACV WR genome has not been confirmed due to the large size of the insert.

Citation:
Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Plasmid Containing Vaccinia Virus, Western Reserve Genome, VAC(WR)-LoxP-GFP-BAC, NR-17604.”

Biosafety Level: 1

Disclaimers:
You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

Use Restrictions:
*This material is distributed for internal research, non-commercial purposes only.* This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale. This material may be subject to third party patent rights.

NR-17604 is claimed in U.S. Patent Number 7,494,813 and the continuations, continuations-in-part, re-issues and foreign counterparts thereof. Commercial use requires a license.
from the U.S. Government. For further information contact the Office of Technology Transfer, National Institutes of Health, 6011 Executive Boulevard, Suite 325, Rockville, Maryland 20852-3804, (301) 496-7057.

References:

ATCC® is a trademark of the American Type Culture Collection.