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SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-29008

Plasmid Containing H16 Hemagglutinin (HA) Gene from Influenza A Virus, A/black headed gull/Sweden/5/1999 (H16N3)

Catalog No. NR-29008

This reagent is the tangible property of the U.S. Government.

Product Description: The H16 hemagglutinin (HA) gene from influenza A virus, A/black headed gull/Sweden/5/1999 (H16N3), was cloned into a modified version of the bidirectional reverse genetics plasmid, pHW2000. The plasmid was produced in *Escherichia coli* and extracted.[1]

Lot[1]: 61119646 **Manufacturing Date: 10AUG2012**

TEST	SPECIFICATIONS	RESULTS
Confirmation of Insert by Restriction Enzyme Digestion Digestion with *Sac*I[2]	~ 2.1 kb (insert); ~ 2.6 kb (vector)	~ 2.1 kb; ~ 2.6 kb
Sequencing of H16 Hemagglutinin Coding Region	Consistent with A/black headed gull/Sweden/5/1999 (H16N3)	100% identity with A/black headed gull/Sweden/5/1999 (H16N3) (GenBank: AY684891)
PicoGreen® Measurement DNA content DNA concentration	 Report results Report results	 50 ng per vial 0.5 ng per µL
Effective Bacterial Transformation	≥ 100 colonies per ng	≥ 100 colonies per ng

[1]Produced in *Escherichia coli* Stbl2™ cells (Invitrogen™ 10268) and extracted using an EndoFree® Plasmid Maxi Kit (QIAGEN® 12362)
[2]*Sac*I (New England BioLabs, Inc. R0156M)

Date: 06 NOV 2012 **Signature:** Michael Q. Gyrla

Title: Technical Manager, BEI Authentication or designee

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected 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.

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BEI Resources
www.beiresources.org
E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898