

SUPPORTING INFECTIOUS DISEASE RESEARCH

Product Information Sheet for NR-19488

Helicobacter pylori Gateway[®] Clone Set, Recombinant in Escherichia coli, Plate 12

Catalog No. NR-19488

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For research use only. Not for human use.

Contributor:

Pathogen Functional Genomics Resource Center at the J. Craig Venter Institute

Manufacturer:

BEI Resources

Product Description:

The Helicobacter pylori (H. pylori) Gateway® clone set consists of approximately 1600 sequence validated clones from H. pylori, strain 26695 and strain J99 cloned in Escherichia coli (E. coli) DH10B-T1 cells. Each open reading frame was constructed in vector pDONR™221 (Invitrogen™) with an ATG start codon and no stop codon. The sequence was validated by full length sequencing of each clone with greater than 1X coverage and a mutation rate of less than 0.2%. Detailed information about each clone is shown in Table 1.

Information related to the use of Gateway[®] Clones can be obtained from Invitrogen[™]. Recombination was facilitated through an attB substrate (attB-PCR product or a linearized attB expression clone) with an attP substrate (pDONR™221) to create an attL-containing entry clone. The entry clone contains recombinational cloning sites, attL1 and attL2 to facilitate gene transfer into a destination vector, M13 forward and reverse priming sites for sequencing and a kanamycin resistance gene for selection. Please refer to the Invitrogen™ Gateway[®] Technology Manual for additional details.

Material Provided:

Each inoculated well of the 96-well plate contains approximately 60 μ L of *E. coli* culture (strain DH10B-T1) in Luria Bertani (LB) Broth containing 50 μ g/mL kanamycin supplemented with 15% glycerol.

Note: Production in the 96-well format has increased risk of cross-contamination between adjacent wells. Individual clones should be purified (e.g. single colony isolation and purification using good microbiological practices) and sequence-verified prior to use. BEI Resources cannot confirm or validate any clone not identified on the plate information table.

Packaging/Storage:

NR-19488 was packaged aseptically in a 96-well plate. The product is provided frozen and should be stored at -80°C or colder immediately upon arrival. For long-term storage, the

vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

Growth Conditions:

Media:

LB Broth or Agar containing 50 µg/mL kanamycin.

Incubation

Temperature: *E. coli*, strain DH10B-T1 clones should be grown at 37°C.

Atmosphere: Aerobic

Propagation:

- Scrape top of frozen well with a pipette tip and streak onto agar plate.
- 2. Incubate the plates at 37°C for 24 hours.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Helicobacter pylori* Gateway® Clone Set, Recombinant in *Escherichia coli*, Plate 12, NR-19488."

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

Disclaimers:

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

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References:

1. Alm, R. A., et al. "Genomic-Sequence Comparison of

- Two Unrelated Isolates of the Human Gastric Pathogen *Helicobacter pylori.*" Nature 397 (1999): 176-180. PubMed: 9923682.
- Jungblut, P. R., et al. "Comparative Proteome Analysis of *Helicobacter pylori*." <u>Mol. Microbiol.</u> 36 (2000): 710-725. PubMed: 10844659.
- Tomb, J. F., et al. "The Complete Genome Sequence of the Gastric Pathogen *Helicobacter pylori*. " <u>Nature</u> 388 (1997): 539-547. PubMed: 9252185.

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Table 1: Helicobacter pylori Gateway® Clone Set, Recombinant in Escherichia coli, Plate 12 (ZHPAL)¹

Strain	Clone	Well Position	Locus ID	Description	ORF Length	Accession Number	Average Depth of Coverage
26695	60097	A01	HP1541	transcription-repair coupling factor	3034	NP_208332.1	3.671061

¹All information in this table was provided by J. Craig Venter Institute at the time of deposition.

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