

Product Information Sheet for NR-19585

SUPPORTING INFECTIOUS DISEASE RESEARCH

Streptococcus pneumoniae Gateway® Clone Set, Recombinant in *Escherichia coli*. Plate 18

Catalog No. NR-19585

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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:

Clone plates are replicated using a BioMek® FX robot. 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 only confirms the clone plate orientation and viability of randomly picked clones. BEI Resources does not confirm or validate individual clone identities provided by the contributor.

The Streptococcus pneumoniae (S. pneumoniae) Gateway® clone set consists of approximately 2029 sequence validated clones from S. pneumonia, strain TIGR4 cloned in Escherichia coli (E. coli) DH10B-T1 cells.¹ Each open reading frame was constructed in vector pDONR™221 (Invitrogen™) with a native 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.

Plate orientation and viability were confirmed for NR-19585.

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.

Packaging/Storage:

NR-19585 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 containing 50 μg/mL kanamycin LB agar containing 50 μg/mL kanamycin Incubation:

Temperature: 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 18 to 24 hours.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Streptococcus pneumoniae Gateway® Clone Set, Recombinant in Escherichia coli, Plate 18, NR-19585."

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:

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References:

 Kwon, K., et al. "A Correlation Analysis of Protein Characteristics Associated with Genome-Wide High Throughput Expression and Solubility of Streptococcus pneumoniae Proteins." <u>Protein Expr. Purif.</u> 55 (2007): 368-378. PubMed: 17703947.

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

Table 1: Streptococcus pneumoniae Gateway® Clone Set, Recombinant in Escherichia coli, Plate 18 (YSPCS)¹

Clone	Well Position	Locus ID	Description	ORF Length	Accession Number	Average Depth of Coverage
69525	A01	SP0354	hypothetical protein SP_0354	429	NP_344887.1	2.88578089
69705	A02	SP1538	Cof family protein/peptidyl-prolyl cistrans isomerase, cyclophilin type	214	NP_345986.1	3
69461	A03	SP1954	serine protease subtilase	775	YP_873937.1	2
69749	A04	SP1364	hypothetical protein SP_1364	1527	NP_345822.1	12.3778651
69785	A05	SP0303	6-phospho-beta-glucosidase	369	NP_344840.1	3.71544715
69581	A06	SP0046	amidophosphoribosyltransferase	168	NP_344595.1	-

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

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