

Enterotoxigenic *Escherichia coli* Expression Clone Set, Recombinant in *Escherichia coli*, Plate 14

Catalog No. NR-19803

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Contributor:

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

Manufacturer:

BEI Resources

Product Description:

The Enterotoxigenic *Escherichia coli* (ETEC) expression clone set consists of 14 plates which contain 917 sequence validated clones from *Escherichia coli* (*E. coli*) strains H10407, E24377A and B7A cloned in *E. coli* DH10B-T1 cells. Each open reading frame was constructed in vector [pMCSG7](#) (a pET21 derivative; for routine HTP purification). 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%. Note: Due to viability issues, all clones may not be available. Please refer to Table 1 for more information on unavailable clones.

Material Provided:

Each inoculated well of the 96-well plate contains approximately 60 µL of *E. coli* culture (strain DH10B-T1) in Luria Bertani (LB) Broth containing 100 µg/mL ampicillin 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-19803 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 100 µg/mL ampicillin.

Incubation:

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

Atmosphere: Aerobic

Propagation:

1. 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: Enterotoxigenic *Escherichia coli* Expression Clone Set, Recombinant in *Escherichia coli*, Plate 14, NR-19803."

Biosafety Level: 2

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:

1. Stols, L., et al. "A New Vector for High-Throughput, Ligation-Independent Cloning Encoding a Tobacco Etch Virus Protease Cleavage Site." *Protein Expr. Purif.* 25 (2002): 8-15. PubMed: 12071693.

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Table 1: Enterotoxigenic *E. coli* Expression Clone Set, Recombinant in *Escherichia coli*, Plate 14 (EEXAN)

Clone	Well Position	Locus ID	Description (Gene name)	ORF Length	Accession Number	Average Depth of Coverage
D000024948	A02	H10407_SANG_p666.0310_94_726	hypothetical protein	689	Not Annotated	2
D000024949	A03	H10407_SANG_p666.0400	hypothetical protein	347	Not Annotated	2
D000024951	A04	H10407_SANG_CHR OM4531_1_636	conserved hypothetical protein	689	CBJ04040	1.9071
D000024955	A06	H10407_SANG_CHR OM4559_1_636	putative transcriptional regulator	689	CBJ04067	2
D000024957	A07	H10407_SANG_CHR OM2129	hypothetical protein	377	Not Annotated	3.1989
D000024961	A09	H10407_SANG_p948.0050	hypothetical protein	377	Not Annotated	2
D000024963	A10	H10407_SANG_CHR OM4623_73_714	probable N-acetylneuraminic acid outer membrane porin	698	CBJ04132	2
D000024966	A11	H10407_SANG_p948.0170	hypothetical protein	377	Not Annotated	2
D000024967	A12	H10407_SANG_p948.0510	hypothetical protein	698	Not Annotated	1.7006
D000024969	B01	H10407_SANG_p948.0240	hypothetical protein	377	Not Annotated	2
D000024973	B03	H10407_SANG_p948.0310	hypothetical protein	377	Not Annotated	2
D000024976	B04	H10407_SANG_CHR OM0674	conserved hypothetical protein	758	CBJ00181	2
D000024977	B05	H10407_SANG_p948.0370	hypothetical protein	377	Not Annotated	2
D000024979	B06	H10407_SANG_CHR OM0348	putative fimbrial protein	761	CBI99853	1.9882
D000024982	B07	H10407_SANG_p948.0580	hypothetical protein	377	Not Annotated	2
D000024983	B08	H10407_SANG_p948.0430	hypothetical protein	842	Not Annotated	3.3972
D000024986	B09	H10407_SANG_p948.0950	hypothetical protein	377	Not Annotated	2
D000024988	B10	h104_P52_g1	hypothetical protein	875	Not Annotated	1.9143
D000024989	B11	H10407_SANG_p948.1110	hypothetical protein	377	Not Annotated	3.1995
D000024991	B12	H10407_SANG_CHR OM2003	putative baseplate J family protein	947	CBJ01506	1.6705

Clone	Well Position	Locus ID	Description (Gene name)	ORF Length	Accession Number	Average Depth of Coverage
D000024994	C01	H10407_SANG_CHR OM2722	putative DNA-invertase from lambdaoid prophage e14	404	CBJ02227	2
D000024995	C02	H10407_SANG_CHR OM1199	conserved hypothetical protein	1121	CBJ00706	1.5272
D000024998	C03	H10407_SANG_p666.0560	hypothetical protein	404	Not Annotated	2
D000024999	C04	H10407_SANG_p948.0900	hypothetical protein	1187	Not Annotated	1.4912
D000025001	C05	h104_Ch_g563	putative DNA-invertase from prophage	419	CBJ02350	2
D000025003	C06	H10407_SANG_CHR OM3182	putative beta-ketoacyl synthase	1220	CBJ02682	4.441
D000025005	C07	h104_Ch_g564	putative DNA-invertase from prophage	419	CBJ02350	2
D000025007	C08	H10407_SANG_p666.0870	hypothetical protein	1625	Not Annotated	4.6326
D000025009	C09	H10407_SANG_CHR OM1215	putative phage endolysin	428	CBJ00720	2
D000025011	C10	H10407_SANG_CHR OM2085	yersiniabactin siderophore biosynthetic protein	1628	CBJ01588	4.6087
D000025015	C12	H10407_SANG_CHR OM1990	putative phage portal protein, pbsx family	1784	CBJ01492	4.3997
D000025018	D01	H10407_SANG_CHR OM1194	putative transmembrane protein, pseudogene	539	PSEUDO:CBJ00701	2
D000025022	D03	H10407_SANG_p666.0380	hypothetical protein	560	Not Annotated	2
D000025023	D04	H10407_SANG_CHR OM3506_91_3798	possible exported protein	3764	CBJ03007	2.5696
D000025025	D05	H10407_SANG_CHR OM2845_106_4572	adhesin autotransporter	4523	CBJ02349	2.5094
D000025027	D06	H10407_SANG_CHR OM3241_85_4557	accessory colonization factor	4529	CBJ02741	3.5308
D000025031	D08	H10407_SANG_CHR OM2081	phosphoribosylglycineamide synthetase	6158	CBJ03770	1