

**Enterotoxigenic *Escherichia coli* Expression Clone Set, Recombinant in *Escherichia coli*, Plate 11**

**Catalog No. NR-19800**

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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-19800 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 11, NR-19800."

**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](http://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 11 (EEXAK)**

Clone	Well Position	Locus ID	Description (Gene name)	ORF Length	Accession Number	Average Depth of Coverage
D000024383	A02	H10407_SANG_CHR OM3219_1_453	putative exported protein	506	CBJ02718	2
D000024385	A03	H10407_SANG_CHR OM1716_1_1485	component of SufB-SufC-SufD cysteine desulfuraseactivator complex	1538	CBJ01220	4.1749
D000024387	A04	H10407_SANG_CHR OM4460_1_453	conserved hypothetical protein	506	CBJ03969	2
D000024392	A06	H10407_SANG_CHR OM3458_94_549	putative organic solvent tolerance protein	512	CBJ02959	2
D000024395	A08	H10407_SANG_CHR OM0301_70_528	conserved hypothetical exported protein	515	CBI99805	2
D000024397	A09	h104_Ch_g372_1_1488	putative flagellar hook-associated protein 2	1541	CBJ01536	4.0247
D000024399	A10	H10407_SANG_CHR OM0596_1_459	conserved hypothetical protein	512	CBJ00102	2
D000024401	A11	H10407_SANG_CHR OM3773_1_1494	putative protease	1547	CBJ03274	3.735
D000024405	B01	H10407_SANG_CHR OM4606_1_1509	cytosol aminopeptidase	1562	CBJ04115	4.9802
D000024407	B02	H10407_SANG_CHR OM1573_79_537	putative fimbrial FimF precursor	515	CBJ01077	2
D000024409	B03	H10407_SANG_CHR OM1021_115_1638	paraquat-inducible protein B	1580	CBJ00530	5.0354
D000024411	B04	H10407_SANG_CHR OM1175_76_537	putative exported protein	518	CBJ00682	2
D000024413	B05	H10407_SANG_CHR OM4011_76_1614	carbohydrate-specific outer membrane porin, cryptic	1595	CBJ03515	5.015
D000024415	B06	H10407_SANG_CHR OM2384_76_540	putative exported protein	521	CBJ01888	2
D000024418	B07	H10407_SANG_p58.0005_1_1596	Not Available	1649	Not Annotated	4.51
D000024419	B08	H10407_SANG_CHR OM2089_1_474	putative invasin	527	CBJ01592	2
D000024421	B09	H10407_SANG_CHR OM3737_1_1605	conserved hypothetical protein	1658	CBJ03238	4.4047
D000024424	B10	H10407_SANG_CHR OM2125_1_474	conserved hypothetical protein	527	CBJ01628	2.1518
D000024425	B11	H10407_SANG_CHR OM2176_1_1620	putative polysaccharide biosynthesis protein	1673	CBJ01677	4.8201

Clone	Well Position	Locus ID	Description (Gene name)	ORF Length	Accession Number	Average Depth of Coverage
D000024427	B12	H10407_SANG_CHR OM3947_1_474	Not Available	527	Not Annotated	2
D000024429	C01	H10407_SANG_CHR OM3736_1_1620	conserved hypothetical protein	1673	CBJ03237	4.5111
D000024431	C02	h104_Ch_g663_1_477	integral membrane protein	530	CBJ02717	2
D000024433	C03	H10407_SANG_CHR OM3896_79_1707	putative exported protein	1685	CBJ03403	4.9027
D000024435	C04	H10407_SANG_CHR OM2312_88_564	lipoprotein	533	CBJ01816	2
D000024438	C05	H10407_SANG_CHR OM0082_130_1764	peptidoglycan synthetase	1691	CBI99583	3.8729
D000024439	C06	H10407_SANG_CHR OM2848_1_480	conserved hypothetical protein	533	CBJ02352	1.3715
D000024444	C08	H10407_SANG_CHR OM0651_76_558	subunit of palmitoyl transferase for Lipid A	539	CBJ00158	1.4453
D000024447	C10	H10407_SANG_CHR OM1576_1_483	putative outer membrane usher protein FimD precursor, pseudogene	536	PSEUDO:CBJ01080	2
D000024449	C11	H10407_SANG_CHR OM4080_1_1662	putative arylsulfatase, pseudogene	1715	PSEUDO:CBJ03584	4.1313
D000024451	C12	H10407_SANG_CHR OM3417_91_573	putative phospholipid-binding protein	539	CBJ02918	2
D000024453	D01	H10407_SANG_CHR OM1568_1_1680	putative sulfatase	1733	CBJ01072	4.8246
D000024455	D02	H10407_SANG_CHR OM3945_1_483	putative antirestriction protein	536	CBJ03450	2
D000024459	D04	H10407_SANG_p948.0490_1_483	Not Available	536	Not Annotated	2
D000024461	D05	H10407_SANG_CHR OM2406_1_1725	putative lipoprotein	1778	CBJ01910	4.8363
D000024463	D06	H10407_SANG_CHR OM2470_1_486	putative minor fimbrial subunit StfG	539	CBJ01973	2
D000024467	D08	h104_Ch_g207_1_489	putative minor capsid protein	542	CBJ04212	3.131
D000024469	D09	H10407_SANG_CHR OM1482_1_1755	conserved hypothetical protein	1808	CBJ00985	4.7373
D000024471	D10	H10407_SANG_CHR OM3038_1_489	type III secretion-associated chaperone	542	CBJ02540	2
D000024473	D11	H10407_SANG_CHR OM2489_1798_3591	putative hybrid sensory histidine kinase in two-component regulatory system	1850	CBJ01993	4.4497
D000024476	D12	H10407_SANG_CHR OM1076_1_492	putative flavin reductase (pyrimidine utilization protein F)	545	CBJ00585	2
D000024479	E02	H10407_SANG_CHR OM2342_1_492	NapD protein	545	CBJ01845	2
D000024481	E03	H10407_SANG_CHR OM1651_1_1809	glucuronide permease	1862	CBJ01153	4.6407

Clone	Well Position	Locus ID	Description (Gene name)	ORF Length	Accession Number	Average Depth of Coverage
D000024483	E04	H10407_SANG_CHR OM3827_1_492	putative MltA-interacting MipA family protein precursor	545	CBJ03330	2
D000024485	E05	H10407_SANG_p948. 0120_1_1809	Not Available	1862	Not Annotated	4.5951
D000024487	E06	H10407_SANG_CHR OM4662_1_492	putative glycoprotein/receptor	545	CBJ04171	2
D000024489	E07	H10407_SANG_CHR OM2314_1_1812	ABC transporter, substrate-binding protein	1865	CBJ01818	4.5174
D000024491	E08	H10407_SANG_CHR OM3752_70_564	outer membrane lipoprotein	551	CBJ03253	2
D000024493	E09	H10407_SANG_CHR OM0456_1_1815	maltodextrin glucosidase	1868	CBI99961	4.3169
D000024495	E10	H10407_SANG_CHR OM3464_76_573	putative organic solvent tolerance protein	554	CBJ02965	2
D000024500	E12	H10407_SANG_CHR OM1838_79_579	putative lipoprotein	557	CBJ01342	2
D000024503	F02	H10407_SANG_CHR OM2471_1_510	putative minor fimbrial subunit StfF	563	CBJ01974	2
D000024505	F03	H10407_SANG_CHR OM4661_385_2289	phosphoglycerol transferase I (phosphatidylglycerol-membrane-oligosaccharide glycerophosphotransferase)	1961	CBJ04170	4.3422
D000024508	F04	H10407_SANG_p948. 0400_1_510	Not Available	563	Not Annotated	2
D000024509	F05	H10407_SANG_CHR OM4747_1_1935	Not Available	1988	Not Annotated	2
D000024511	F06	H10407_SANG_CHR OM0587_1_513	fimbrial protein	566	CBJ00093	2
D000024516	F08	H10407_SANG_CHR OM2610_1_516	putative lipoprotein	569	CBJ02114	2
D000024520	F10	H10407_SANG_CHR OM3326_1_516	conserved hypothetical protein	569	CBJ02826	2
D000024521	F11	H10407_SANG_CHR OM2086_1_2019	pesticin/yersiniabactin TonB-dependent receptor	2072	CBJ01589	4.4773
D000024523	F12	H10407_SANG_CHR OM1197_1_522	putative prophage repressor	575	CBJ00704	2
D000024525	G01	H10407_SANG_CHR OM4284_76_2094	putative lipoprotein	2075	CBJ03790	4.1711
D000024527	G02	H10407_SANG_CHR OM0834_73_597	putative prophage-encoded outer membrane protein	581	CBJ00344	2
D000024531	G04	H10407_SANG_CHR OM1242_73_597	putative transmembrane protein	581	CBJ00746	2
D000024535	G06	H10407_SANG_p666. 0170_1_525	Not Available	581	Not Annotated	2

Clone	Well Position	Locus ID	Description (Gene name)	ORF Length	Accession Number	Average Depth of Coverage
D000024539	G08	H10407_SANG_CHR OM4630_1_528	minor component of type 1 fimbriae	581	CBJ04139	2
D000024541	G09	H10407_SANG_p948.0020_1_2046	Not Available	2099	Not Annotated	4.99
D000024543	G10	H10407_SANG_CHR OM4369_1_534	single-stranded binding protein	587	CBJ03875	2
D000024546	G11	H10407_SANG_p948.0020_2047_4092	Not Available	2102	Not Annotated	4.8915
D000024548	G12	H10407_SANG_CHR OM0465_1_537	putative lipoprotein	590	CBI99970	2
D000024551	H02	H10407_SANG_CHR OM1006_1_537	predicted fimbrial-like adhesin protein	590	CBJ00514	2
D000024555	H04	H10407_SANG_CHR OM0582_1_540	fimbrial protein (type-1A pilin)	593	CBJ00088	2
D000024559	H06	H10407_SANG_CHR OM1012_1_540	fimbrial protein	593	CBJ00521	2
D000024564	H08	H10407_SANG_CHR OM1313_82_621	outer-membrane lipoprotein	596	CBJ00815	2
D000024568	H10	H10407_SANG_CHR OM2627_1_540	hypothetical phage protein	593	CBJ02133	1.4418
D000024569	H11	H10407_SANG_CHR OM0146_106_2241	ferrichrome-iron TonB-dependent receptor	2192	CBI99647	4.5169