

Enterotoxigenic *Escherichia coli* Expression Clone Set, Recombinant in *Escherichia coli*, Plate 12

Catalog No. NR-19801

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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-19801 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 12, NR-19801."

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 12 (EEXAL)

Clone	Well Position	Locus ID	Description (Gene name)	ORF Length	Accession Number	Average Depth of Coverage
D000024575	A04	H10407_SANG_CHR OM4307_1_540	hypothetical phage protein	593	CBJ03813	3.2305
D000024578	A05	H10407_SANG_CHR OM0872_103_2280	hypothetical protein	2234	Not Annotated	-
D000024581	A07	H10407_SANG_CHR OM3162_115_2322	iron(III) dicitrate TonB-dependent receptor	2264	CBJ02662	2.4109
D000024583	A08	H10407_SANG_p948.0420_541_1080	hypothetical protein	596	Not Annotated	3.2737
D000024587	A10	H10407_SANG_CHR OM0304_1_546	bacteriophage v tail protein	599	CBJ03856	4.2597
D000024595	B02	H10407_SANG_CHR OM4626_1_546	fimbrial protein	599	CBJ04135	3.2424
D000024597	B03	H10407_SANG_p948.0110_1_2307	hypothetical protein	2360	Not Annotated	3.2126
D000024599	B04	H10407_SANG_CHR OM1403_1_555	transcriptional regulator of the polyamine metabolism genes	608	CBJ00906	3.2619
D000024601	B05	H10407_SANG_p948.0110_2308_4617	hypothetical protein	2366	Not Annotated	5.8438
D000024603	B06	H10407_SANG_CHR OM2041_796_1350	flagellar M-ring protein	611	CBJ01544	4.2488
D000024605	B07	H10407_SANG_CHR OM0172_76_2430	hypothetical protein	2408	Not Annotated	2
D000024607	B08	H10407_SANG_CHR OM2474_1_561	putative fimbria A protein precursor	614	CBJ01978	4.2553
D000024610	B09	H10407_SANG_CHR OM2005_1_2355	probable tail fiber protein (gph)	2408	CBJ01508	-
D000024611	B10	H10407_SANG_CHR OM4356_1_561	phage invertase	614	CBJ03862	4.2377
D000024617	C01	H10407_SANG_CHR OM3411_121_2514	putative outer membrane usher protein LpfC precursor	2450	CBJ02912	3.4698
D000024619	C02	H10407_SANG_CHR OM0134_1_567	predicted fimbrial-like adhesin protein	620	CBI99635	4.2508
D000024624	C04	H10407_SANG_CHR OM2450_88_660	putative peptidoglycan-binding protein	629	CBJ01955	4.248
D000024627	C06	H10407_SANG_CHR OM2545_1_573	putative lipoprotein	626	CBJ02049	4.246
D000024631	C08	H10407_SANG_CHR OM3309_1_573	conserved hypothetical protein	626	CBJ02808	4.2396
D000024635	C10	H10407_SANG_CHR OM2073_73_648	putative exported protein	632	CBJ01576	4.2294

Clone	Well Position	Locus ID	Description (Gene name)	ORF Length	Accession Number	Average Depth of Coverage
D000024639	C12	H10407_SANG_CHR OM1558_1_579	D-alanyl-D-alanine dipeptidase	632	CBJ01062	4.2452
D000024642	D01	H10407_SANG_CHR OM1008_94_2598	fimbrial outer membrane usher protein	2561	CBJ00516	4.261
D000024643	D02	H10407_SANG_CHR OM1691_1_579	superoxide dismutase [Fe]	632	CBJ01195	4.2215
D000024647	D04	H10407_SANG_CHR OM2001_1_579	putative tail completion phage protein	632	CBJ01503	2.9446
D000024649	D05	H10407_SANG_CHR OM2626_1_2508	hypothetical phage protein	2561	CBJ02131	3.8524
D000024651	D06	H10407_SANG_CHR OM3181_1_582	putative membrane protein	635	CBJ02680	3.5307
D000024654	D07	H10407_SANG_CHR OM4629_121_2634	fimbrial outer membrane usher protein	2570	CBJ04138	3.7283
D000024656	D08	H10407_SANG_CHR OM0352_1_585	putative fimbrial protein	638	CBI99857	4.2273
D000024660	D10	H10407_SANG_CHR OM1137_73_657	flagellar basal body P-ring protein	641	CBJ00645	4.2543
D000024661	D11	H10407_SANG_CHR OM1456_91_2637	putative exported protein	2603	CBJ00959	4.4867
D000024666	E01	H10407_SANG_CHR OM2473_88_2643	putative outer membrane fimbrial usher protein	2612	CBJ01977	-
D000024668	E02	H10407_SANG_CHR OM0132_1_594	predicted fimbrial-like adhesin protein	647	CBI99633	4.2287
D000024669	E03	H10407_SANG_CHR OM0135_1_2595	fimbrial outer membrane usher protein	2648	CBI99636	3.625
D000024672	E04	H10407_SANG_CHR OM1073_1_594	flavoprotein	647	CBJ00582	4.2303
D000024676	E06	H10407_SANG_CHR OM2854_1_594	putative alpha-amylase precursor, pseudogene	647	PSEUDO:CBJ02355	4.2427
D000024677	E07	H10407_SANG_CHR OM0427_1_2610	hypothetical protein	2663	Not Annotated	2
D000024679	E08	H10407_SANG_CHR OM4155_1_597	phosphatase	650	CBJ03660	3.2462
D000024683	E10	H10407_SANG_CHR OM0309_1_600	putative tail fiber/collar phage protein	653	CBI99812	3.2205
D000024685	E11	H10407_SANG_CHR OM2119_160_2844	putative adhesin autotransporter	2741	CBJ01621	2.0921
D000024689	F01	H10407_SANG_CHR OM3590_1_2691	putative glycosyl hydrolase, possible endochitinase	2744	CBJ03091	3.9796
D000024691	F02	H10407_SANG_CHR OM0133_1_603	predicted fimbrial-like adhesin protein	656	CBI99634	4.2141
D000024693	F03	H10407_SANG_CHR OM1564_88_2793	probable zinc protease	2762	CBJ01068	3.3049
D000024695	F04	H10407_SANG_CHR OM0374_1_603	ankyrin repeat protein	656	CBI99879	4.2009

Clone	Well Position	Locus ID	Description (Gene name)	ORF Length	Accession Number	Average Depth of Coverage
D000024697	F05	H10407_SANG_CHR OM1306_142_2865	autotransporter (putative adhesin)	2780	CBJ00808	3.7737
D000024699	F06	H10407_SANG_CHR OM2630_1_603	hypothetical phage protein	656	CBJ02136	4.218
D000024703	F08	H10407_SANG_CHR OM2831_1_603	conserved hypothetical protein	656	CBJ02335	4.0046
D000024707	F10	H10407_SANG_p948. 0080_1_603	transposase	656	CBJ00179	4.2546
D000024709	F11	H10407_SANG_CHR OM0591_82_2970	hypothetical protein	2945	Not Annotated	-
D000024711	F12	H10407_SANG_p948. 0080_604_1206	hypothetical protein	656	Not Annotated	4.2135
D000024721	G05	H10407_SANG_CHR OM0400_1_3072	beta-galactosidase	3125	CBI99905	4.4309
D000024723	G06	H10407_SANG_CHR OM1014_94_708	fimbrial chaperone	671	CBJ00523	4.2126
D000024727	G08	H10407_SANG_CHR OM1980_1_615	conserved hypothetical protein	668	CBJ01483	4.2402
D000024729	G09	H10407_SANG_CHR OM0595_1027_4251	hypothetical protein	3281	Not Annotated	2
D000024731	G10	H10407_SANG_CHR OM4144_73_690	porin	674	CBJ03649	3.5402