

Enterotoxigenic *Escherichia coli* Expression Clone Set, Recombinant in *Escherichia coli*, Plate 1

Catalog No. NR-19790

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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 viability of the clones. BEI Resources does not confirm or validate individual clone identities provided by the contributor.

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.

Packaging/Storage:

NR-19790 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: 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 1, NR-19790."

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 1 (EEXAA)¹

Clone	Well Position	Locus ID	Description	ORF Length	Average Depth of Coverage
D000022503	A02	EcB7A_2419_1_105	metal binding protein	161	2
D000022505	A03	b7a_C91_g4_1_339	hypothetical protein	395	2
D000022508	A04	b7a_C32_g1_1_111	hypothetical protein	167	2
D000022511	A06	b7a_C219_g1_1_114		167	2
D000022513	A07	b7a_C107_g5_1_345		398	2
D000022519	A10	EcB7A_2090_1_135		188	2
D000022521	A11	b7a_C127_g3_1_354		407	2
D000022524	A12	EcB7A_1787_1_156	hypothetical protein	209	2
D000022525	B01	b7a_C2_g16_1_354	hypothetical protein	407	2
D000022527	B02	EcB7A_2338_1_159	hypothetical protein	212	2
D000022529	B03	b7a_C12_g60_1_360		416	2
D000022531	B04	EcB7A_1866_1_174	hypothetical protein	227	2
D000022534	B05	b7a_C123_g2_1_360		413	2
D000022535	B06	EcB7A_1063_1_177	hypothetical protein	230	2
D000022541	B09	b7a_C25_g9_1_369	type 1 fimbrial protein	422	2
D000022543	B10	b7a_C10_g4_1_198	transcriptional activator	254	2
D000022547	B12	b7a_C142_g2_1_198		254	2
D000022549	C01	b7a_C16_g3_1_375	hypothetical protein	428	2
D000022556	C04	b7a_C38_g2_1_198	leu operon leader peptide	254	2
D000022572	C12	EcB7A_3130_1_198	hypothetical protein	251	2
D000022577	D03	b7a_C12_g42_1_393		449	2
D000022580	D04	b7a_C3_g8_1_201	hypothetical protein	254	2
D000022584	D06	b7a_C30_g5_1_201	activating enzyme	254	2

Clone	Well Position	Locus ID	Description	ORF Length	Average Depth of Coverage
D000022585	D07	b7a_C233_g1_1_396		449	2
D000022591	D10	b7a_C1_g21_1_204	gamma-glutamylputrescine synthetase	260	2
D000022593	D11	EcB7A_4206_67_468	fimbrial subunit protein	458	2
D000022596	D12	b7a_C197_g1_1_204	transporter	260	2
D000022597	E01	EcB7A_0578_2155_2559	tail protein	461	2
D000022600	E02	b7a_C75_g5_1_204		260	2
D000022603	E04	b7a_C9_g8_1_204	type III secretion system protein	257	2
D000022607	E06	b7a_C98_g5_1_204		260	2
D000022612	E08	b7a_C219_g2_1_207	putative transposase	260	2
D000022613	E09	EcB7A_1642_67_483		473	2
D000022620	E12	b7a_C26_g3_1_207	fimbrial-like protein	260	2
D000022621	F01	EcB7A_1674_1_435		488	2
D000022623	F02	b7a_C34_g8_1_207	phage protein	263	2
D000022627	F04	b7a_C75_g22_1_207	transposase	263	2
D000022630	F05	b7a_C38_g3_1_444	2-isopropylmalate synthase	500	2
D000022632	F06	b7a_C76_g2_1_207	hypothetical protein	260	2
D000022633	F07	EcB7A_0414_67_510	hypothetical protein	500	2
D000022635	F08	b7a_C76_g4_1_207	hypothetical protein	263	2
D000022639	F10	b7a_C1_g17_1_210	Periplasmic murine protein-binding protein	266	2
D000022641	F11	EcB7A_1796_1_453	hypothetical protein	506	2
D000022643	F12	b7a_C1_g25_1_210	hypothetical protein	266	2
D000022646	G01	EcB7A_1634_1_456		509	2
D000022647	G02	b7a_C27_g9_1_210	aspartate carbamoyltransferase	266	2
D000022653	G05	EcB7A_4650_1_459	inner membrane protein	512	2
D000022655	G06	b7a_C30_g8_1_213	hypothetical protein	269	2

Clone	Well Position	Locus ID	Description	ORF Length	Average Depth of Coverage
D000022658	G07	b7a_C142_g8_148_60 g		518	2
D000022659	G08	EcB7A_4878_1_213	hypothetical protein	266	2
D000022661	G09	b7a_C125_g2_1_465	hypothetical protein	518	3.1160542
D000022664	G10	b7a_C1_g14_1_216	small toxic polypeptide	272	2
D000022666	G11	b7a_C62_g3_1_471	hypothetical protein	524	-
D000022671	H02	EcB7A_0403_1_216	lipoprotein	269	2
D000022676	H04	b7a_C158_g1_1_219		272	2
D000022677	H05	EcB7A_3345_1_483	hypothetical protein	536	2
D000022682	H07	EcB7A_3108_1_486	D-alanyl-D-alanine-carboxypeptidase	542	2
D000022684	H08	b7a_C18_g1_1_219	hypothetical protein	275	2
D000022690	H11	EcB7A_3787_76_573	lipopolysaccharide periplasmic protein	554	2

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