

Enterotoxigenic *Escherichia coli* Expression Clone Set, Recombinant in *Escherichia coli*, Plate 10

Catalog No. NR-19799

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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-19799 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 10, NR-19799."

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.

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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 10 (EEXAJ)

Clone	Well Position	Locus ID	Description (Gene name)	ORF Length	Accession Number	Average Depth of Coverage
D000024195	A02	H10407_SANG_CHRO M1281_1_366	conserved hypothetical protein	419	CBJ00784	2
D000024197	A03	H10407_SANG_CHRO M3439_490_1623	putative membrane-associated sulfatase	1190	CBJ02940	1.431092437
D000024200	A04	H10407_SANG_CHRO M3367_1_366	putative exported protein	419	CBJ02867	2
D000024203	A06	H10407_SANG_CHRO M3694_70_438	conserved hypothetical protein	425	CBJ03195	2
D000024206	A07	H10407_SANG_CHRO M2933_1_1137	Not Available	1190	Not Annotated	3
D000024207	A08	H10407_SANG_CHRO M3907_1_372	heat resistant agglutinin 1	425	CBJ03414	2
D000024211	A10	H10407_SANG_CHRO M3907_373_744	heat resistant agglutinin 1	425	CBJ03414	2
D000024213	A11	H10407_SANG_CHRO M1567_1_1155	putative arylsulfatase-activating protein	1208	CBJ01071	4.414735099
D000024215	A12	H10407_SANG_CHRO M3582_1_375	putative general secretion pathway protein H precursor (protein transport protein HofH)	428	CBJ03082	2
D000024217	B01	H10407_SANG_CHRO M3856_103_1257	putative peptidase	1211	CBJ03363	1.344343518
D000024220	B02	H10407_SANG_CHRO M0757_1_378	putative exported protein	431	CBJ00265	3.166666667
D000024222	B03	H10407_SANG_CHRO M2217_79_1245	multidrug resistance protein	1223	CBJ01720	1.418642682
D000024223	B04	H10407_SANG_CHRO M2836_1_384	putative lipoprotein	437	CBJ02340	2
D000024226	B05	H10407_SANG_CHRO M4641_1_1170	isoaspartyl dipeptidase	1223	CBJ04150	1.460343418
D000024227	B06	H10407_SANG_CHRO M4328_1_384	phage membrane protein	437	CBJ03834	2
D000024229	B07	H10407_SANG_CHRO M1946_1_1176	putative restriction endonuclease	1229	CBJ01451	1.429617575
D000024231	B08	H10407_SANG_CHRO M3168_1_387	putative lipoprotein	440	CBJ02668	2
D000024233	B09	H10407_SANG_CHRO M3690_1_1176	conserved protein	1229	CBJ03192	1.370219691
D000024235	B10	H10407_SANG_p666.0 660_1_387	Not Available	440	Not Annotated	2
D000024237	B11	H10407_SANG_CHRO M3389_1_1185	conserved hypothetical protein	1238	CBJ02889	1.282714055
D000024241	C01	H10407_SANG_CHRO M4010_1_1194	predicted xylanase	1247	CBJ03514	1.349639134

Clone	Well Position	Locus ID	Description (Gene name)	ORF Length	Accession Number	Average Depth of Coverage
D000024243	C02	h104_Ch_g55_1_390	Not Available	443	Not Annotated	2
D000024246	C03	H10407_SANG_CHRO M2728_1_1197	putative phage related protein	1250	CBJ02232	1.4112
D000024247	C04	H10407_SANG_CHRO M1213_1_390	putative phage protein	443	CBJ00718	2
D000024249	C05	H10407_SANG_CHRO M1889_121_1320	putative peptidoglycan-binding peptidase	1256	CBJ01394	1.362261147
D000024252	C06	H10407_SANG_CHRO M1997_1_390	putative phage tail X family protein	443	CBJ01498	2
D000024253	C07	H10407_SANG_CHRO M1141_1_1206	flagellar hook protein FigE	1259	CBJ00649	1.260524226
D000024255	C08	H10407_SANG_CHRO M2839_1_390	conserved hypothetical protein	443	CBJ02343	2
D000024258	C09	H10407_SANG_CHRO M3066_1_1209	putative peptidase	1262	CBJ02568	1.375594295
D000024259	C10	H10407_SANG_CHRO M0821_1_393	putative phage protein	446	CBJ00331	2
D000024261	C11	H10407_SANG_CHRO M3751_1_1221	conserved hypothetical protein	1274	CBJ03252	1.238618524
D000024263	C12	H10407_SANG_CHRO M3988_1_396	conserved hypothetical protein	449	CBJ03492	2
D000024266	D01	H10407_SANG_CHRO M4223_511_1731	putative membrane protein	1277	CBJ03728	1.294440094
D000024267	D02	h104_Ch_g1030_1_399	isppu9, transposase	452	CBJ04127	2
D000024270	D03	H10407_SANG_CHRO M0126_1_1227	putative polysaccharide deacetylase	1280	CBI99627	1.37265625
D000024271	D04	h104_Ch_g533_1_399	Not Available	452	Not Annotated	2
D000024273	D05	H10407_SANG_CHRO M3185_1_1227	putative short chain dehydrogenase	1280	CBJ02684	1.20625
D000024275	D06	H10407_SANG_CHRO M0321_1_399	putative prophage protein	452	CBI99823	2
D000024278	D07	H10407_SANG_CHRO M1699_1_1254	conserved hypothetical protein	1307	CBJ01203	3.725325172
D000024279	D08	H10407_SANG_CHRO M0012_1_402	conserved hypothetical protein	455	CBI99513	2
D000024282	D09	H10407_SANG_CHRO M2479_88_1344	long-chain fatty acid transport protein	1313	CBJ01983	1.324447829
D000024283	D10	H10407_SANG_CHRO M1972_1_402	putative phage protein	455	CBJ01475	2
D000024286	D11	H10407_SANG_CHRO M4291_79_1338	maltoporin (maltose-inducible porin)	1316	CBJ03797	4.382218845
D000024290	E01	H10407_SANG_CHRO M4515_76_1335	N-acetylmuramoyl-L-alanine amidase	1316	CBJ04024	1.260638298
D000024292	E02	H10407_SANG_CHRO M3796_253_657	putative outer membrane protein	461	CBJ03298	2
D000024293	E03	H10407_SANG_CHRO M0779_1_1281	acyl-CoA thioester hydrolase	1334	CBJ00288	4.185157421
D000024295	E04	H10407_SANG_CHRO M4718_2173_2577	hypothetical protein	461	Not Annotated	1.709327549

Clone	Well Position	Locus ID	Description (Gene name)	ORF Length	Accession Number	Average Depth of Coverage
D000024297	E05	H10407_SANG_CHRO M4376_1_1290	pentapeptide repeat protein	1343	CBJ03883	4.447505585
D000024300	E06	H10407_SANG_CHRO M1810_1_411	peptide methionine sulfoxide reductase	464	CBJ01314	2
D000024301	E07	H10407_SANG_CHRO M0750_1_1296	protein tola	1349	CBJ00258	4.063009637
D000024303	E08	H10407_SANG_CHRO M1103_1_414	curli production assembly/transport component	467	CBJ00611	2
D000024306	E09	H10407_SANG_CHRO M2841_1_1302	putative tyrosine recombinase	1355	CBJ02344	1.296678967
D000024307	E10	H10407_SANG_CHRO M1135_1_414	flagella synthesis protein FlgN	467	CBJ00643	2
D000024311	E12	H10407_SANG_CHRO M1287_1_417	SOS mutagenesis and repair protein	470	CBJ00791	2
D000024314	F01	H10407_SANG_CHRO M3101_1_1323	hypothetical protein	1376	Not Annotated	1.172965116
D000024315	F02	H10407_SANG_CHRO M4262_1_417	zinc resistance-associated protein	470	CBJ03767	2
D000024317	F03	H10407_SANG_CHRO M4464_160_1482	conserved hypothetical protein	1379	CBJ03973	4.316896302
D000024319	F04	H10407_SANG_CHRO M2745_1_423	putative phage protein	476	CBJ02249	2
D000024322	F05	H10407_SANG_CHRO M0698_79_1404	putative exported protein	1379	CBJ00205	3.952864394
D000024324	F06	H10407_SANG_CHRO M3036_1_423	conserved hypothetical protein	476	CBJ02538	2
D000024326	F07	H10407_SANG_CHRO M4122_1_1329	hypothetical protein	1382	Not Annotated	4.390738061
D000024327	F08	H10407_SANG_CHRO M0881_88_513	outer membrane protein X	482	CBJ00390	2
D000024331	F10	H10407_SANG_CHRO M2969_1_426	conserved hypothetical protein	482	Not Annotated	1.846473029
D000024333	F11	H10407_SANG_CHRO M0201_1_1356	membrane-bound lytic murein transglycosylase D precursor	1409	CBI99702	4.264017033
D000024335	F12	H10407_SANG_CHRO M0237_1_432	putative copper-binding protein PcoE precursor	485	CBI99737	2
D000024337	G01	H10407_SANG_CHRO M3175_1_1356	hypothetical protein	1409	Not Annotated	3.619588361
D000024340	G02	H10407_SANG_CHRO M2633_1_435	hypothetical phage protein	488	CBJ02139	2
D000024341	G03	H10407_SANG_CHRO M3495_1_1365	protease	1418	CBJ02996	4.359661495
D000024344	G04	H10407_SANG_CHRO M0104_1_438	prepilin peptidase dependent protein D precursor	491	CBI99605	2
D000024346	G05	H10407_SANG_CHRO M2033_1_1410	putative flagellar hook-associated protein 2	1463	CBJ01536	3.56937799
D000024347	G06	H10407_SANG_CHRO M0932_76_513	probable lipoprotein	494	CBJ00441	2

Clone	Well Position	Locus ID	Description (Gene name)	ORF Length	Accession Number	Average Depth of Coverage
D000024350	G07	H10407_SANG_CHRO M0157_1_1422	putative protease Do precursor	1475	CBI99658	4.315254237
D000024351	G08	H10407_SANG_CHRO M2739_1_438	putative phage related protein	491	CBJ02244	2
D000024353	G09	H10407_SANG_CHRO M2907_1_1422	6-phospho-beta-glucosidase	1475	CBJ02407	4.181694915
D000024355	G10	h104_Ch_g66_1_444	methylisocitrate lyase	497	CBI99893	1.327967807
D000024357	G11	H10407_SANG_CHRO M3094_1_1437	6-phospho-beta-glucosidase	1490	CBJ02596	4.059731544
D000024359	G12	H10407_SANG_CHRO M0227_1_447	probable copper-binding protein PcoE precursor	500	CBI99727	2
D000024364	H02	H10407_SANG_CHRO M1013_67_513	fimbrial protein	503	CBJ00522	2
D000024366	H03	h104_Ch_g511_1_1452	hypothetical protein	1505	CBJ02120	4.176079734
D000024367	H04	H10407_SANG_CHRO M1867_118_564	putative membrane protein	503	CBJ01371	2
D000024370	H05	H10407_SANG_CHRO M0260_1_1455	aminoacyl-histidine dipeptidase	1508	CBI99760	3.553050398
D000024372	H06	H10407_SANG_CHRO M0752_70_519	peptidoglycan-associated lipoprotein	506	CBJ00260	2
D000024374	H07	H10407_SANG_CHRO M2032_1_1461	putative flagellin	1514	CBJ01535	4.266182299
D000024376	H08	H10407_SANG_CHRO M1106_1_453	minor curlin subunit	506	CBJ00614	2
D000024378	H09	H10407_SANG_CHRO M2088_1_1467	putative invasin/adhesin protein	1520	CBJ01591	4.157236842
D000024379	H10	H10407_SANG_CHRO M1107_1_453	major curlin subunit	506	CBJ00615	2