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I. Supplemental Methods for Phylogenetic Analysis

Phylogenetic analysis was performed using the following algorithms and settings: Lyve-SET 1.1.4f used with reads trimmed using fastx trimmer 5 bases from 5' ends before mapping by SMALT. SNPs were called using VarScan at >20x coverage, >95% read support, and <5 bp apart.

Reference: PacBio assembly of O121 strain 2011C-3609 (JASV01000001, 7 contigs) used as reference with contig 3 masked at coordinates 22041-33456 and 76317-105265; contig 4 masked at 1309-29564, 52595-79312, 433164-468408, 965982-1030998, 1336633-1347956, and 3008088-3030109; contig 5 masked at 13587-30951 and 32908-47818; contig 6 masked at 119510-145947 and 260488-273070; and contig 7 masked at 13802-22026, 632208-640594, and 650388-662361.

II. Supplemental Table: National Center for Biotechnology Information database accession numbers, outbreak of Shiga toxin-producing *E. coli* infections, United States, December 21, 2015, through September 5, 2016

Whole Genome Sequencing Identification Number	National Center for Biotechnology Information Accession Number	SRR Identification Number
2016C-3839	SAMN05430244	SRR3944606
2016C-3845	SAMN05430247	SRR3944600
CFSAN051461	SAMN05215991	SRR3657299
CFSAN051463	SAMN05215993	SRR3657301
CFSAN051464	SAMN05215994	SRR3657302
CFSAN051559	SAMN05245391	SRR3747656
CFSAN051560	SAMN05245392	SRR3747657
CFSAN051771	SAMN05289780	SRR3713565
CFSAN051772	SAMN05289781	SRR3713585
CFSAN052207	SAMN05294034	SRR3743180
CFSAN052208	SAMN05294035	SRR3743181
PNUSAE002161	SAMN04444293	SRR3146220
PNUSAE002179	SAMN04484905	SRR3171961
PNUSAE002184	SAMN04481687	SRR3169764
PNUSAE002203	SAMN04461157	SRR3157082
PNUSAE002331	SAMN04536247	SRR3214062
PNUSAE002380	SAMN04518090	SRR3205823
PNUSAE002383	SAMN04521116	SRR3205842
PNUSAE002385	SAMN04521095	SRR3205841
PNUSAE002420	SAMN04569057	SRR3278988
PNUSAE002432	SAMN04537368	SRR3213951
PNUSAE002540	SAMN04550289	SRR3228456
PNUSAE002568	SAMN04568478	SRR3372129
PNUSAE002570	SAMN04568480	SRR3294546
PNUSAE002592	SAMN04588708	SRR3372026

PNUSAE002632	SAMN04573297	SRR3294497
PNUSAE002715	SAMN04632343	SRR3394790
PNUSAE002731	SAMN04605519	SRR3340360
PNUSAE002758	SAMN05360249	SRR3991783
PNUSAE002759	SAMN04849842	SRR3394776
PNUSAE002761	SAMN04893590	SRR3540715
PNUSAE002762	SAMN04633181	SRR3394768
PNUSAE002823	SAMN04870890	SRR3410204
PNUSAE002978	SAMN04925752	SRR5306566
PNUSAE003180	SAMN05263632	SRR3957017
PNUSAE003214	SAMN05225541	SRR3657545
PNUSAE003253	SAMN05201343	SRR3644563
PNUSAE003279	SAMN05272337	SRR3715610
PNUSAE003499	SAMN05386338	SRR3930570
PNUSAE003502	SAMN05301331	SRR3745461
PNUSAE003551	SAMN05390832	SRR3957000
PNUSAE003616	SAMN05389709	SRR3930558
PNUSAE003908	SAMN05544915	SRR4054780
PNUSAE004038	SAMN05578247	SRR4054744
PNUSAE004046	SAMN05726811	SRR4191378
PNUSAE004147	SAMN05604774	SRR4094906
PNUSAE004359	SAMN05824277	SRR4346730
PNUSAE004457	SAMN05789735	SRR4293160
PNUSAE004488	SAMN05791271	SRR4293149
PNUSAE004513	SAMN05826287	SRR4346300
PNUSAE004517	SAMN05788744	SRR4293120
PNUSAE004545	SAMN05827314	SRR4345721
PNUSAE004562	SAMN05845060	SRR4345708
PNUSAE005457	SAMN06141525	SRR5124256
