SUPPLEMENTARY MATERIAL

Table S1. Detected LEE proteins and their grouping

LEE encoded proteins
espL2, nleB1, nleE, nleA/espI, espM2, espW, cif, nleH1, nleA/espI, nleH2, nleF, espM1, espR1, espX4, espG, escE, cesAB, escL, escR, escS, escT, escU, etgA, cesD, escC, sepD, escJ, escI, cesL, escV, escN, escO, escP, sepQ/escQ, espH, cesF, map, cesT, eae, escD, sepL, espA, espD, cesD2, escF, escG, espF, nleG7', espX5, espX1
LEE protein groups
LEE1
espG, escE, cesAB, escL, escR, escS, escT, escU
LEE 2
cesD, escC, sepD, escJ, escI
LEE 3
escV, escN, escO, escP, sepQ/escQ, espH, cesF, map
LEE 4
escD, sepL, espA, espD, cesD2, escF, escG, espF,
LEE 5
cesT, eae

Table S2. Physiochemical properties of LEE encoded proteins

Physiochemical properties	**LEE encoded proteins**							
	escU	***escN***	***eae***	***espA***	***espD***	***espG***	*escV*	*escD*
Amino acids	250	446	939	192	380	398	675	406
Molecular weight (Da)	28604.50	48858.45	101684.77	20534.02	39618.76	43905.64	75150.08	45316.26
Aliphatic index	108.32	105.40	76.99	88.49	91.18	88.24	119.81	105.69
Instability index	32.47	35.55	32.60	37.67	37.26	41.70	39.61	39.83
Theoretical pI	9.29	5.99	8.95	4.80	6.65	5.37	5.66	6.96
Total number of negatively charged residues (Asp+Glu)	27	54	78	20	31	46	69	41
Total number of positively charged residues (Arg+Lys)	35	50	89	16	31	35	62	41
Extinction coefficients (all	32890	25120	123665	-	-	24785	51465	49070

pairs of Cys residues form cystine)								
Extinction coefficients (all pairs of Cys residues are reduced)	32890	24870	123540	7450	25440	24410	51340	48820
Grand average of hydropathicity (GRAVY)	0.046	0.020	-0.358	-0.195	-0.025		0.355	-0.087

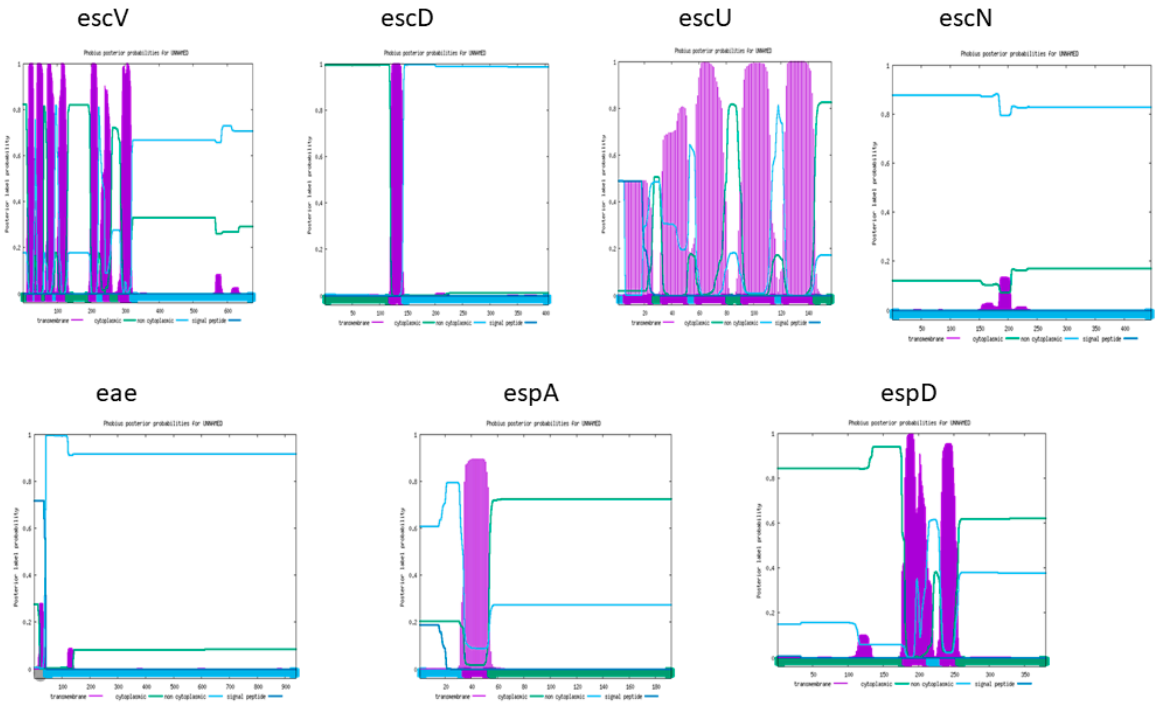


Figure S1. Predicted transmembrane protein domains of LEE genes using Phobius.

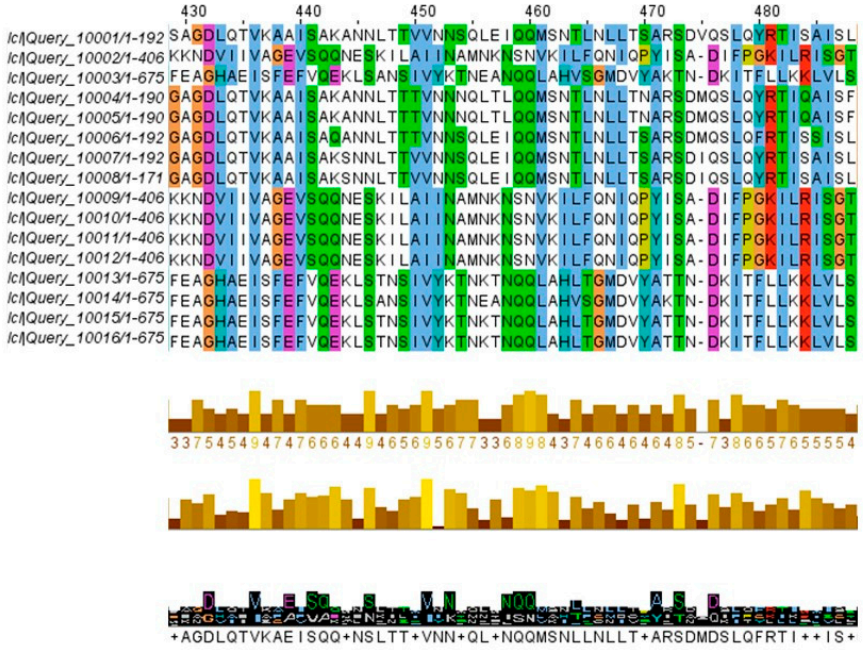


Figure S2. Multiple sequence alignment of T3SS proteins (espA, escD, escV). ClustaW scheme was used for coloring residues in this alignment.