

Supplementary table 3 – EC071 genetic background analysis by whole genome sequencing.

Group	Gene	Reference Sequence (Genbank accession number)	Reference Strain	EC071
SPATEs-encoding genes	<i>eatA</i>	AY163491	<i>E. coli</i> H10407	No similarity found
	<i>epeA</i>	AY258503.2	<i>E. coli</i> O113:H21 EH41, plasmid pO113	No similarity found
	<i>espC</i>	AF297061	<i>E. coli</i> E2348/69	No similarity found
	<i>espl</i>	AJ278144.1	<i>E. coli</i> O91:H- 4797/97	No similarity found
	<i>espP</i>	X97542.1	<i>E. coli</i> EDL933	No similarity found
	<i>sigA</i>	AF200692.2	<i>S. flexneri</i> 2a	No similarity found
	<i>pic</i>	NC_017626.1	<i>E. coli</i> 042	No similarity found
	<i>sepA</i>	CP037924.1	<i>S. flexneri</i> 5a cepa M90T, plasmid pWR100	No similarity found
	<i>tsh</i>	NC_009837.1	<i>E. coli</i> O1:K1:H7 APEC O1, plasmid pAPEC-O1-CoIBM	No similarity found
	<i>vat</i>	AE014075.1	<i>E. coli</i> O6:K2:H1 CFT073	No similarity found
	<i>pet</i>	NC_017627.1	<i>E. coli</i> 042, plasmid pAA	No similarity found
	<i>tagB</i>			No similarity found
	<i>tagC</i>	MH899681.1	<i>E. coli</i> QT598	No similarity found
	<i>sha</i>	MH899684.1	<i>E. coli</i> strain QT598, plasmid Sha	No similarity found
Intrinsic virulence-related genes	<i>kpsM</i>			No similarity found
	<i>kpsT</i>			No similarity found
	<i>iutA</i>			No similarity found
	<i>iucD</i>	AE014075.1	<i>E. coli</i> CFT073	No similarity found
	<i>focAICDFGH</i>			No similarity found
	<i>sfaADEFGS</i>			No similarity found
	<i>H</i>			No similarity found
	<i>papIBAHCDJ</i>			
	<i>KEFG</i>			+
	<i>afaABCDE</i>	FM955458.1	<i>E. coli</i> FV9863	+
<i>draABCDE</i>	AF329316.1	<i>E. coli</i> IH11128	+	

Supplementary table 3 – cont.

Group	Gene	Reference Sequence (Genbank accession number)	Reference Strain	EC071	
Group 2-capsule	<i>kpsF-II</i>	NC_017631.1	<i>E. coli</i> ABU 83972	+	
	<i>kpsE-II</i>			+	
	<i>kpsD-II</i>			+	
	<i>kpsU-II</i>			+	
	<i>kpsC-II</i>			+	
	<i>kpsS-II</i>			+	
	<i>kpsM-II-K5</i>	AE014075.1	<i>E. coli</i> CFT073 (O6:H1)	No similarity found	
	<i>kpsT-II-K5</i>			No similarity found	
	<i>kpsM-K2</i>			No similarity found	
	<i>kpsT-K2</i>			No similarity found	
	<i>neuS</i>			No similarity found	
	<i>neuE</i>			No similarity found	
	Group 2-capsule	<i>neuC</i>	NC_007946.1	<i>E. coli</i> UT189 (O18:H7)	No similarity found
		<i>neuA</i>			No similarity found
		<i>neuB</i>			No similarity found
<i>neuD</i>		No similarity found			
<i>kpsT-K1</i>		No similarity found			
<i>kpsM-K1</i>		No similarity found			
<i>kpsC'-K5</i>		NC_008253.1			<i>E. coli</i> 536 (O6:H31)
<i>kpsS-K10</i>	+				
<i>kpsC-K10</i>	No similarity found				
<i>kpsT-K15</i>	No similarity found				
<i>kpsM-K15</i>	No similarity found				
Group 3-capsule	<i>kpsD-III</i>	NZ_JDRV01000043.1	<i>E. coli</i> MS499	No similarity found	
	<i>kpsM-III</i>			No similarity found	
	<i>kpsT-III</i>			No similarity found	
	<i>kpsE-III</i>			No similarity found	
	<i>kpsC-III</i>			No similarity found	
Group 4-capsule	<i>kpsS-III</i>	NZ_CP009166.1	<i>E. coli</i> 1303 (O70:H32)	+	
	<i>gfcA</i>			No similarity found	
	<i>gfcB</i>			No similarity found	
	<i>gfcC</i>			No similarity found	
	<i>gfcD</i>			No similarity found	
	<i>gfcE</i>			No similarity found	
	<i>etp</i>			No similarity found	
<i>etk</i>	No similarity found				

Supplementary table 3 - cont.

Group	Gene	Reference Sequence (Genbank accession number)	Reference Strain	EC071
Outer membrane proteins	<i>ompP</i>	X74278.1		No similarity found
	<i>ompX</i> (<i>ompP</i>)	U00096.3	<i>E. coli</i> K-12 MG1655	+
	<i>ompTc</i>	NC_008563.1	<i>E. coli</i> APEC O1(O1:H7)	+
	<i>ompTp</i>	NC_007675.1	<i>E. coli</i> APEC A2363, plasmid pAPEC-O2-ColV	+
Proteases	<i>stcE</i>	CP000244.1	<i>E. coli</i> EDL933 (O157:H7)	No similarity found
	<i>prc</i>	NC_000913.3	<i>E. coli</i> K-12 MG1655	+
	<i>nlpI</i>	CU928161.2	<i>E. coli</i> S88 (O45:H7)	+
Protectins	<i>bor/ iss</i>	NC_009837.1	<i>E. coli</i> APEC O1 (O1:H7), plasmid pAPEC-O1-ColBM	No similarity found
	<i>traT</i>	J01769.1	<i>E. coli</i> plasmid R100	No similarity found