

Table S2. Main characteristics of the *E. coli* genes studied

Genes	Number of nucleotides	HPI positive strains		HPI negative strains	
		Number of strains	Number of informative sites for parsimony	Number of strains	Number of informative sites for parsimony
<i>icd</i>	1166	37	68	13	25
<i>putP</i>	892	37	88	13	52
<i>polB</i>	995	37	96	13	39
<i>trpA</i>	727	37	60	13	16
<i>trpB</i>	1138	37	83	13	35
<i>pabB</i>	1003	37	59	13	7
Strain MLST	5919	37	454	13	174
<i>int</i>	789	37	8		
<i>ybtQ</i>	594	37	1		
<i>ybtA</i>	957	37	7		
<i>irp2</i>	585	37	6		
<i>irp1</i>	594	37	9		
<i>fuyA</i>	600	37	3		
HPI MLST	4119	37	34		
UR	837	37	19	13	3
DR	1162	30	12	13	63