

**Table S3.** Hierarchical clustering of core genome multilocus sequence typing (cgMLST) (HierCC) results obtained from EnteroBase for all *E. coli* isolate genomes, with indication of the cgMLST clusters obtained from BioNumerics

Isolate ID	EnteroBase barcode	CgMLST cluster	HC0 <sup>1</sup>	HC2	HC5	HC10	HC20	HC50	HC100	HC200 <sup>2</sup>
MF3R	ESC_CB5267AA	1	205870	205870	205870	205870	205870	205870	37630	63
MF4HI	ESC_CB5322AA	1	205870	205870	205870	205870	205870	205870	37630	63
EF115	ESC_CB5344AA	1	205870	205870	205870	205870	205870	205870	37630	63
EF3	ESC_AB5360AA	1	205870	205870	205870	205870	205870	205870	37630	63
EF40	ESC_AB5384AA	1	205870	205870	205870	205870	205870	205870	37630	63
EF70	ESC_CB5354AA	1	205870	205870	205870	205870	205870	205870	37630	63
EM68	ESC_CB5369AA	1	205870	205870	205870	205870	205870	205870	37630	63
EM86	ESC_CB5326AA	1	220708	205870	205870	205870	205870	205870	37630	63
ES107	ESC_CB5370AA	1	205870	205870	205870	205870	205870	205870	37630	63
ES18	ESC_CB5325AA	1	220705	205870	205870	205870	205870	205870	37630	63
ES91	ESC_CB5368AA	1	220732	205870	205870	205870	205870	205870	37630	63
EF114	ESC_CB5361AA	2	220729	205871	205871	205871	205871	205871	30437	63
EF123	ESC_CB5362AA	2	220720	205871	205871	205871	205871	205871	30437	63
EF22	ESC_AB5359AA	2	205871	205871	205871	205871	205871	205871	30437	63
EF24	ESC_AB5385AA	2	205871	205871	205871	205871	205871	205871	30437	63
EF25	ESC_BB5386AA	2	205871	205871	205871	205871	205871	205871	30437	63
EF42	ESC_CB5363AA	2	205871	205871	205871	205871	205871	205871	30437	63
EF61	ESC_CB5343AA	2	220720	205871	205871	205871	205871	205871	30437	63
EM12	ESC_CB5341AA	2	220724	205871	205871	205871	205871	205871	30437	63
EM62	ESC_CB5342AA	2	205871	205871	205871	205871	205871	205871	30437	63
ES105	ESC_CB5367AA	2	220720	205871	205871	205871	205871	205871	30437	63
MB1H	ESC_CB5335AA	3	220715	205844	205844	205844	205844	205844	16335	63
MD3H	ESC_CB5351AA	3	220680	205844	205844	205844	205844	205844	16335	63
PD2R	ESC_CB5269AA	3	220680	205844	205844	205844	205844	205844	16335	63
MB1HI	ESC_CB5358AA	3	220680	205844	205844	205844	205844	205844	16335	63
EF19	ESC_AB5354AA	3	205844	205844	205844	205844	205844	205844	16335	63
EF21	ESC_CB5353AA	3	205844	205844	205844	205844	205844	205844	16335	63
EF34	ESC_CB5364AA	3	220730	205844	205844	205844	205844	205844	16335	63
EF38	ESC_CB5365AA	3	220730	205844	205844	205844	205844	205844	16335	63
EF41	ESC_CB5360AA	3	205844	205844	205844	205844	205844	205844	16335	63
EF43	ESC_AB5353AA	4	205843	205843	205843	205843	205843	205843	30437	63
EM114	ESC_CB5352AA	4	220728	205843	205843	205843	205843	205843	30437	63
ES190	ESC_CB5266AA	4	220681	205843	205843	205843	205843	205843	30437	63
PF2Br	ESC_CB5334AA	5	220712	147247	147247	147247	147247	15671	1022	63
PA2H	ESC_CB5336AA	5	147247	147247	147247	147247	147247	15671	1022	63
EM34	ESC_BB5385AA	5	147247	147247	147247	147247	147247	15671	1022	63
EM44	ESC_CB5359AA	5	205848	147247	147247	147247	147247	15671	1022	63
ES8	ESC_AB5358AA	5	205848	147247	147247	147247	147247	15671	1022	63
PA2R	ESC_AB5355AA	6	205845	205845	205845	205845	205845	205845	30437	63
PG1Fo	ESC_CB5357AA	6	220682	205845	205845	205845	205845	205845	30437	63
PC4R	ESC_CB5337AA	6	205845	205845	205845	205845	205845	205845	30437	63
PC4Br	ESC_CB5268AA	6	220682	205845	205845	205845	205845	205845	30437	63
MB5R	ESC_AB5355AA		205847	205847	205847	205847	205847	205847	30437	63
PE1R	ESC_AB5357AA		205846	205846	205846	205844	205844	205844	16335	63

<sup>1</sup> HC0: hierarchical clusters (HCs) with identical genomes with no allele difference.

<sup>2</sup> HC200: HC with genomes up to 200 allele differences.