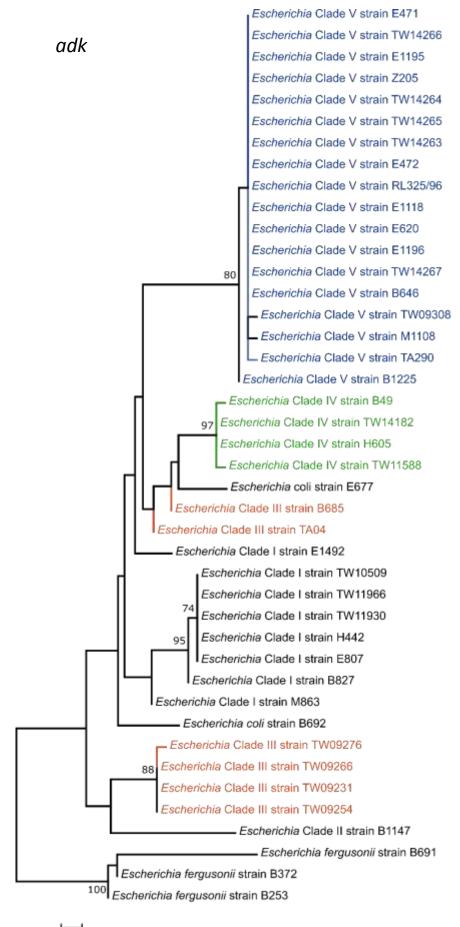
Supplementary File 5

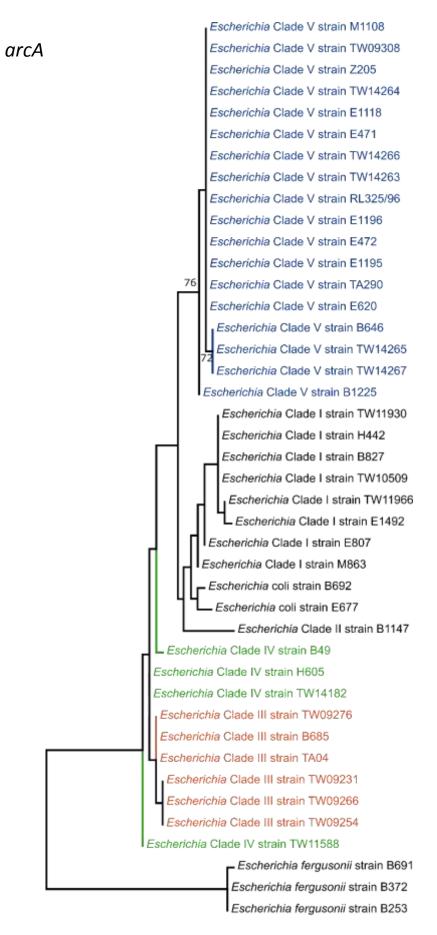
Individual gene phylogenies were constructed for the dataset obtained from Walk et al., 2009. This dataset consisted of 42 taxa, of which two isolates represent *Escherichia coli*, eight isolates represent *Escherichia* Clade I, one isolate of *Escherichia* Clade II, six isolates representative of *Escherichia* Clade III, four isolates representative of *Escherichia* Clade IV and 18 isolates that represent *Escherichia* Clade V, with three isolates of *E. fergusonii* as outgroup taxa. Sequencing data for a total of 22 loci were analysed individually and as a concatenated super matrix. All individual gene trees were constructed with a maximum likelihood approach using RAxML v. 8.20 (Stamatakis, 2014), employing the GTR model of nucleotide evolution (Tavaré, 1986) with all parameters estimated by RAxML. Branch support was obtained from 1,000 bootstrap replicates.

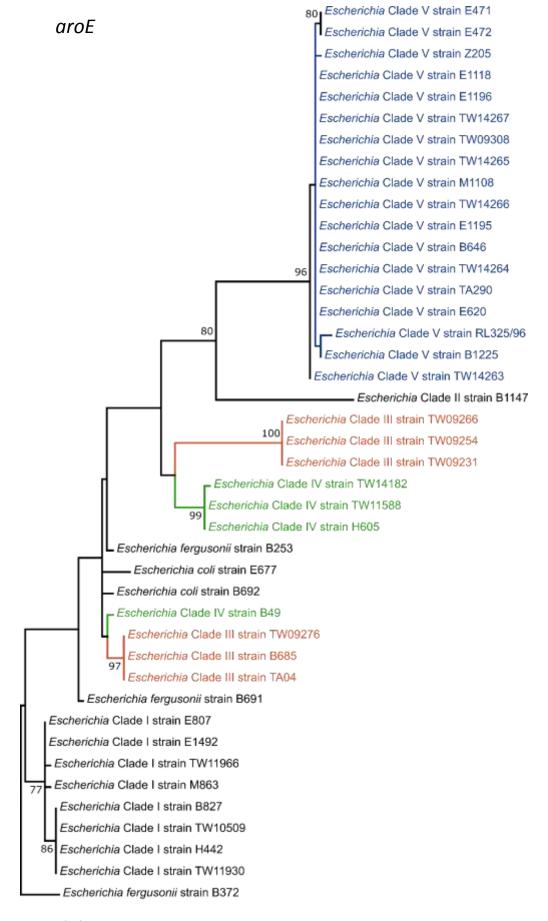
References

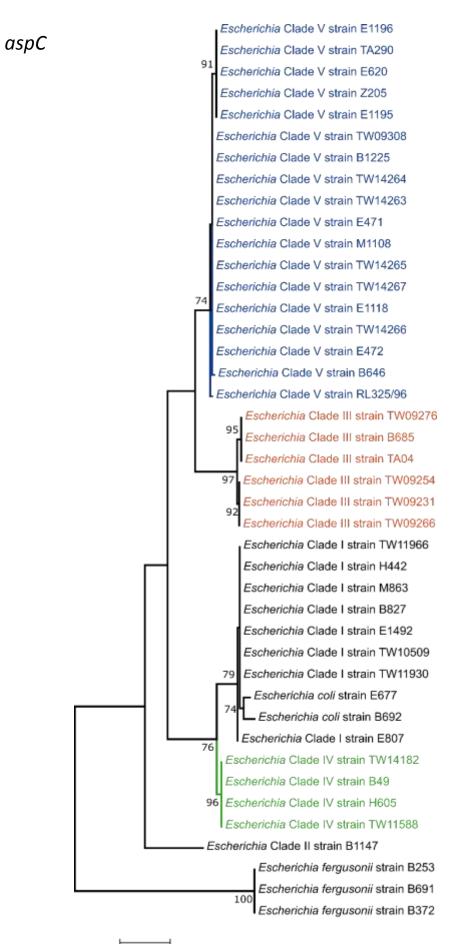
STAMATAKIS, A. 2014. RAxML version 8: a tool for phylogenetic analysis and post-analysis of large phylogenies. *Bioinformatics*, 30, 1312-1313.

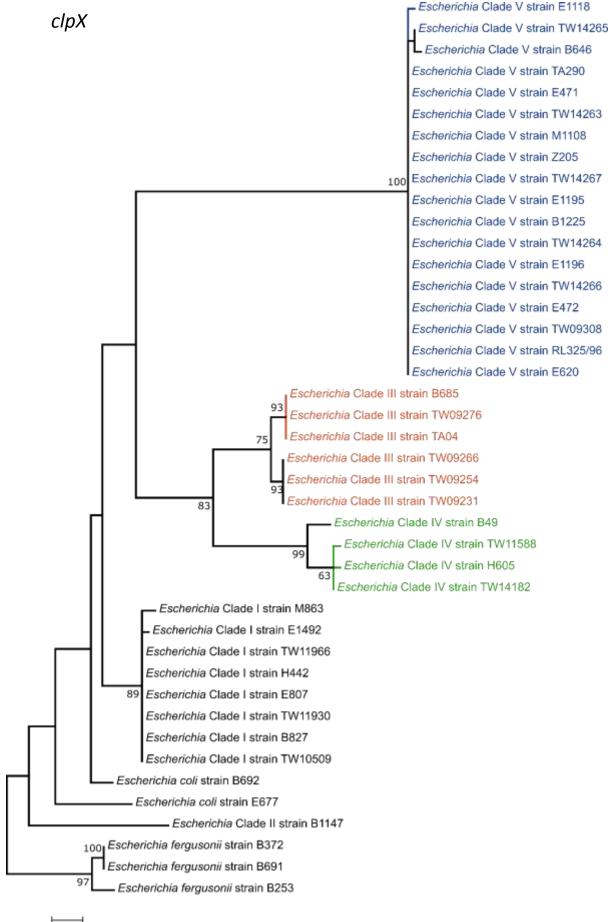
TAVARÉ, S. 1986. Some probabilistic and statistical problems in the analysis of DNA sequences. *Lectures on mathematics in the life sciences*, 17, 57-86.

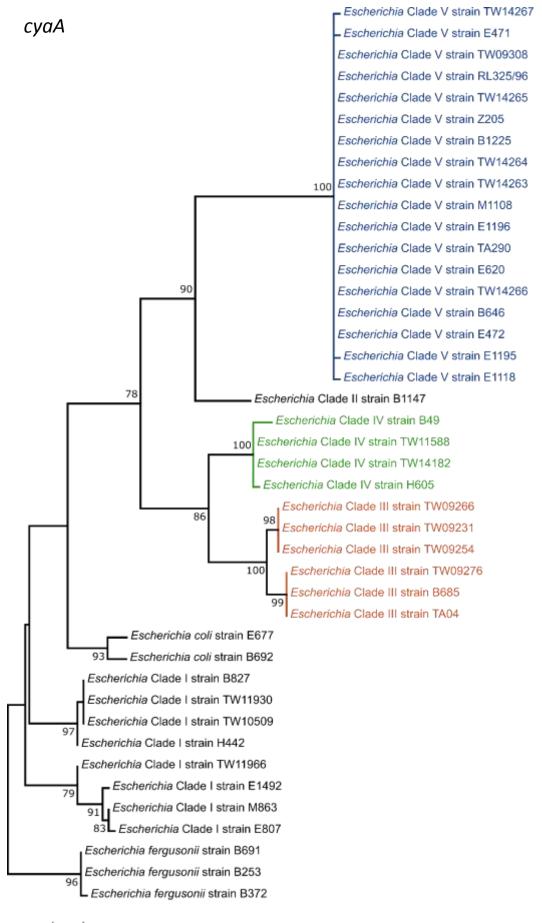




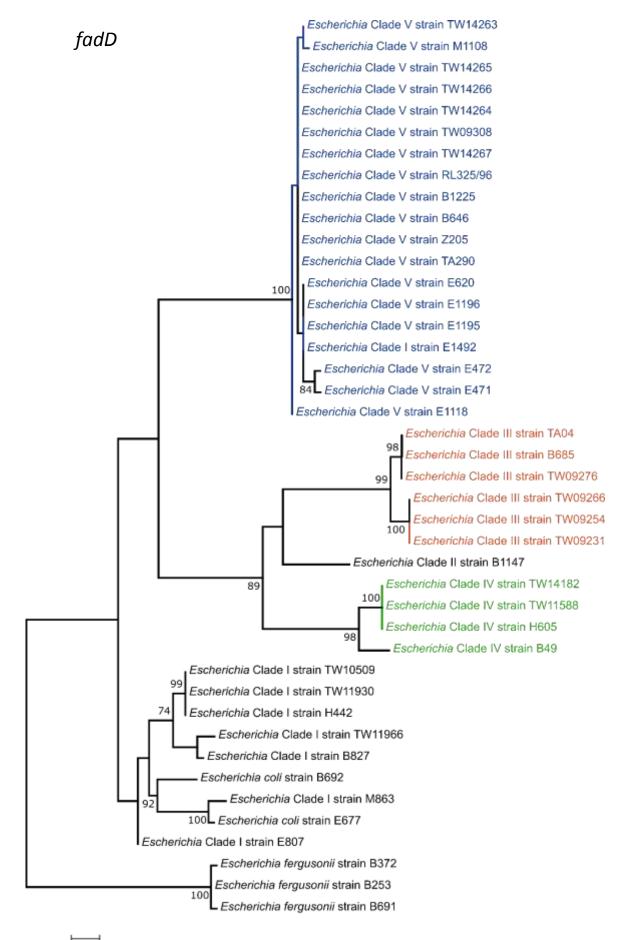


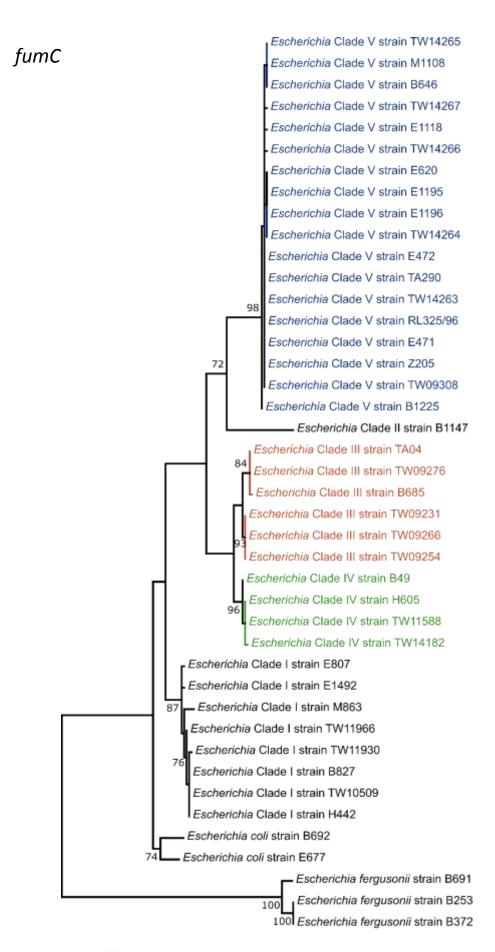


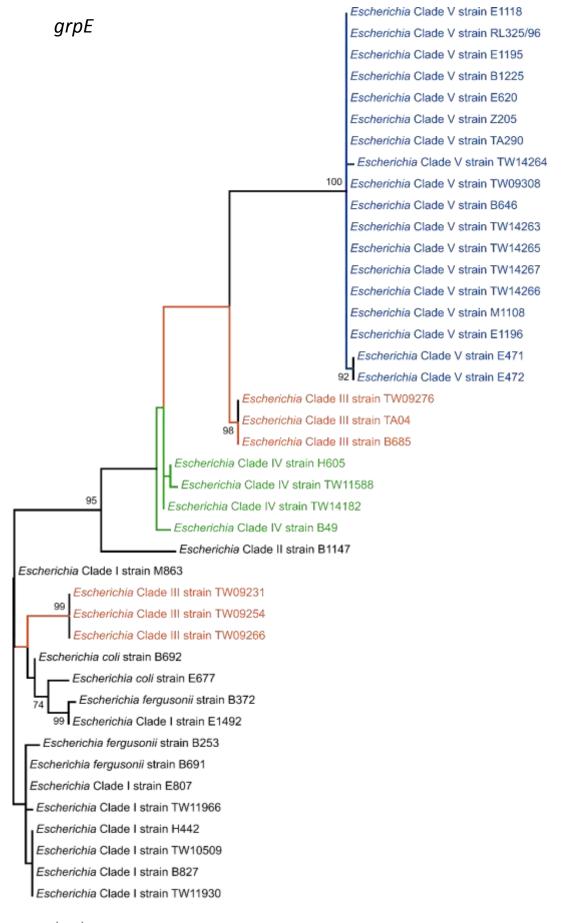


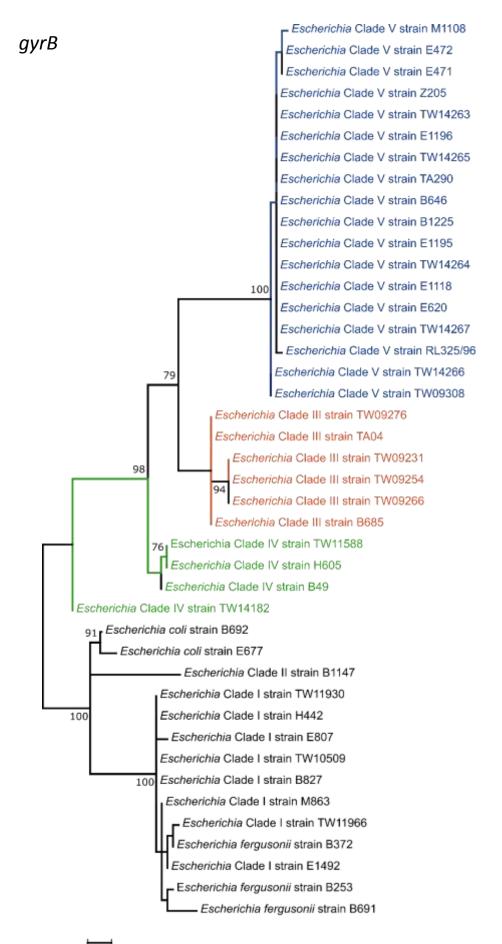


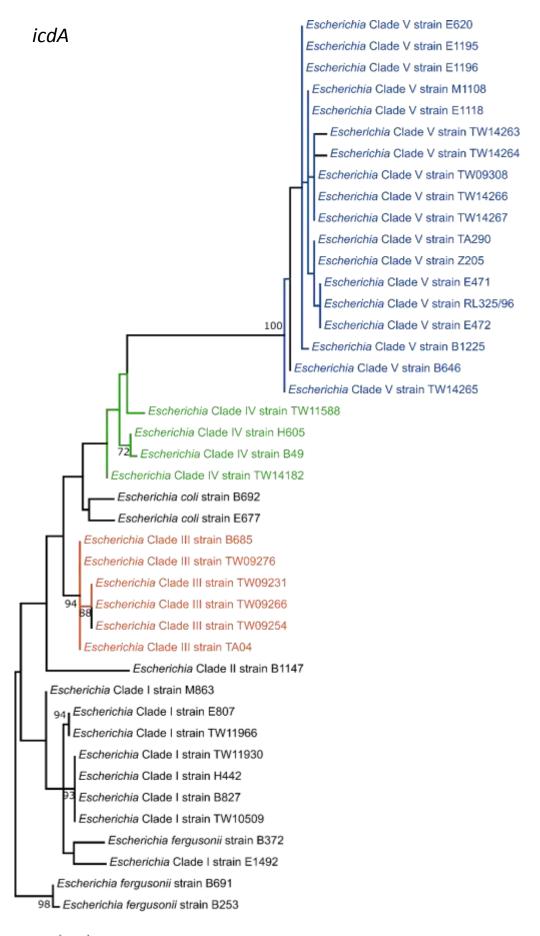


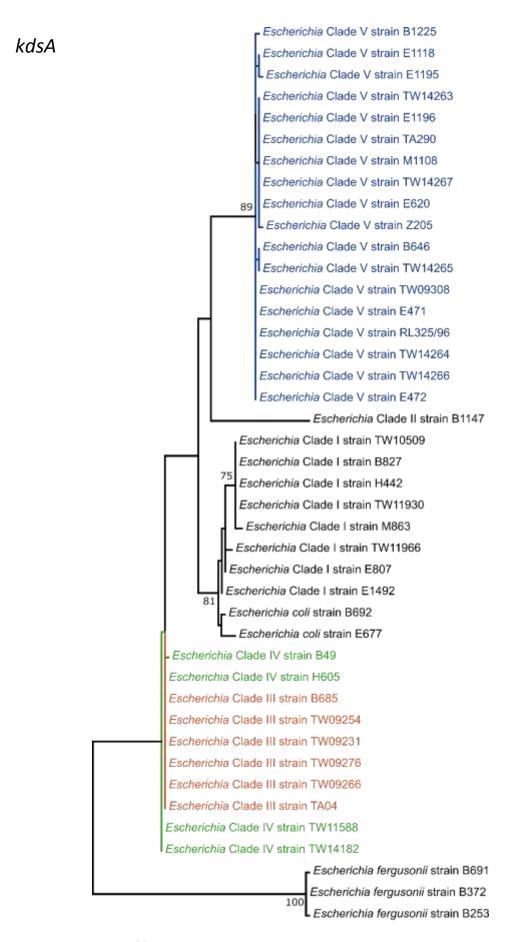


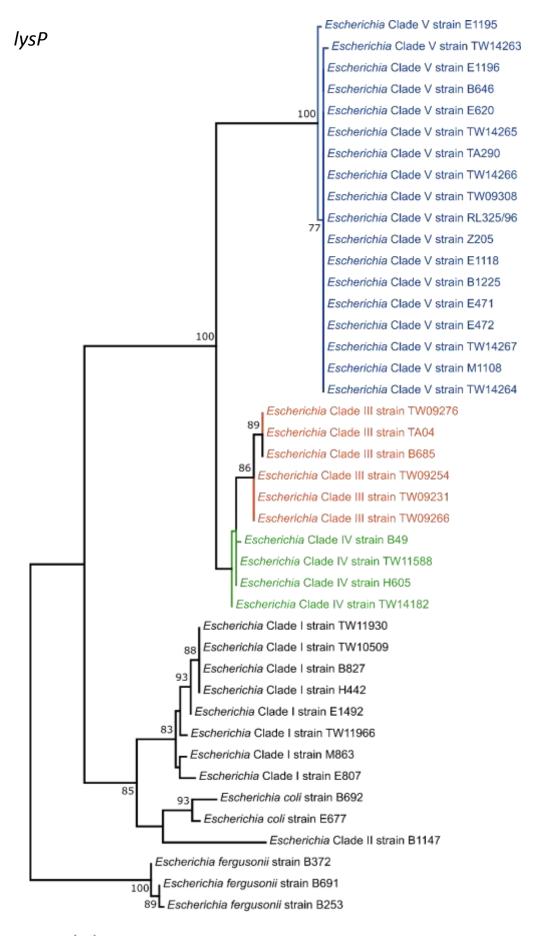


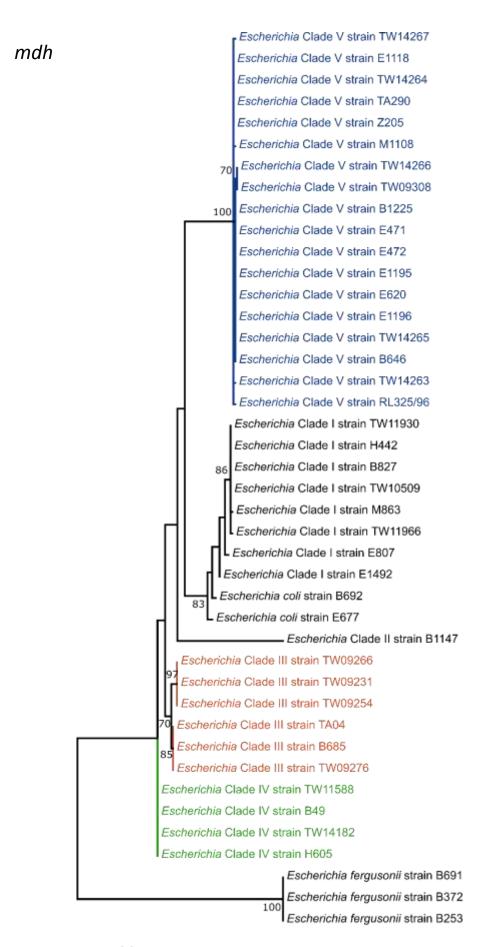


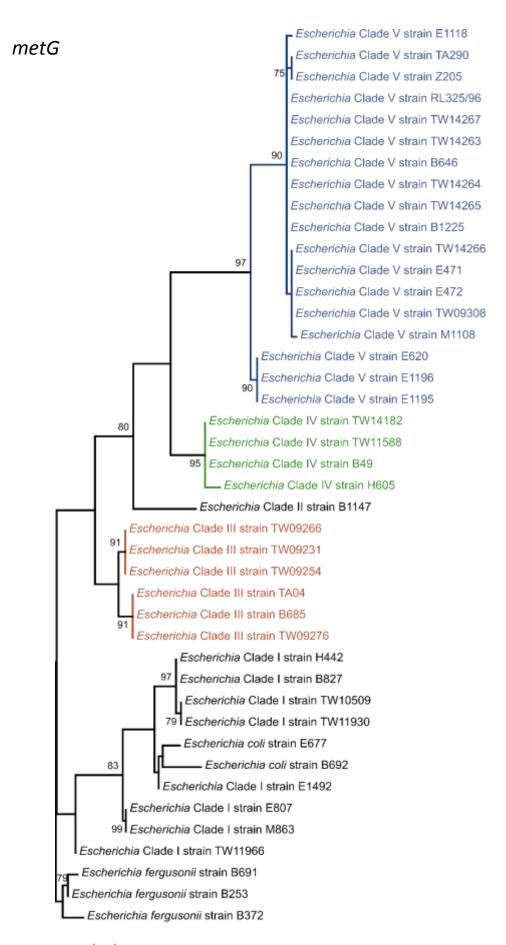


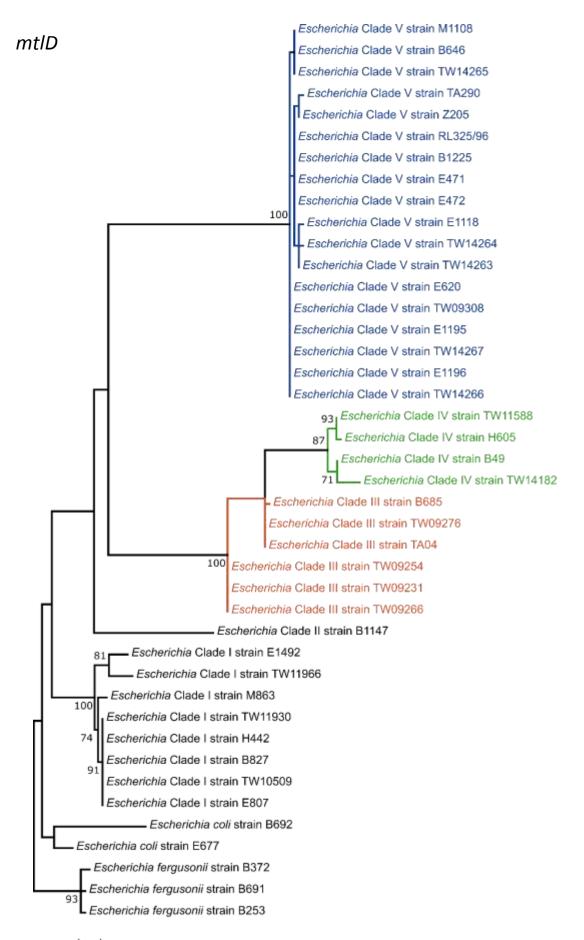


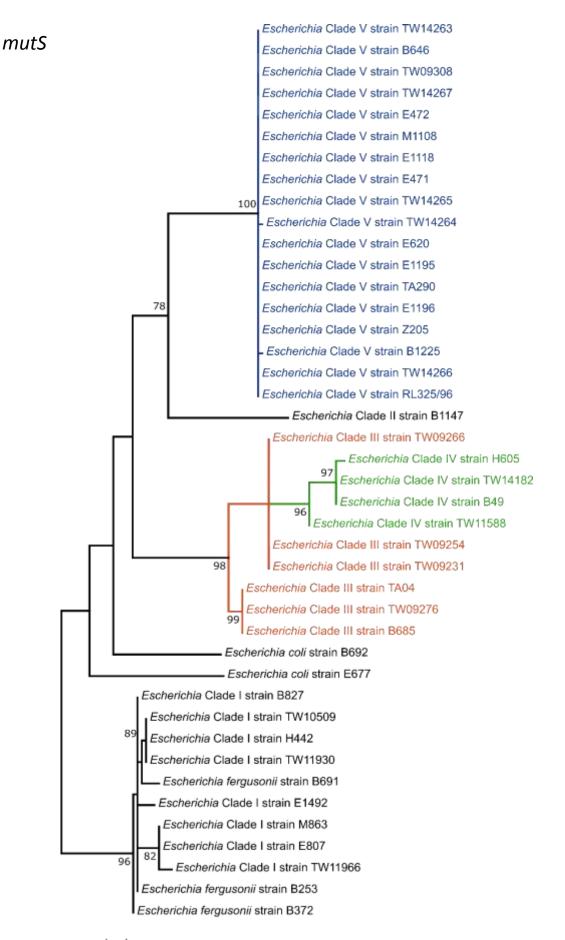


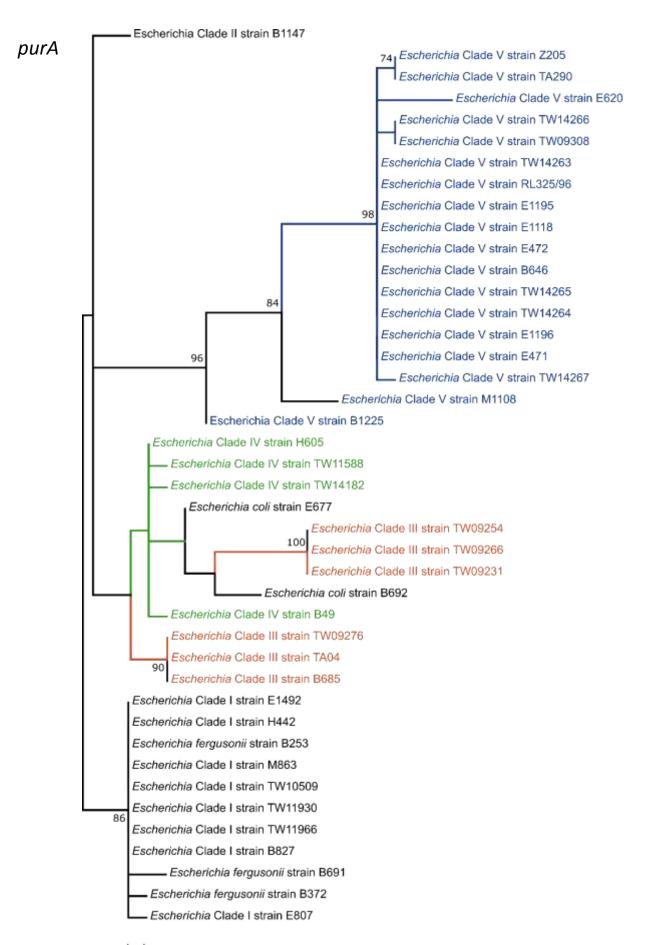


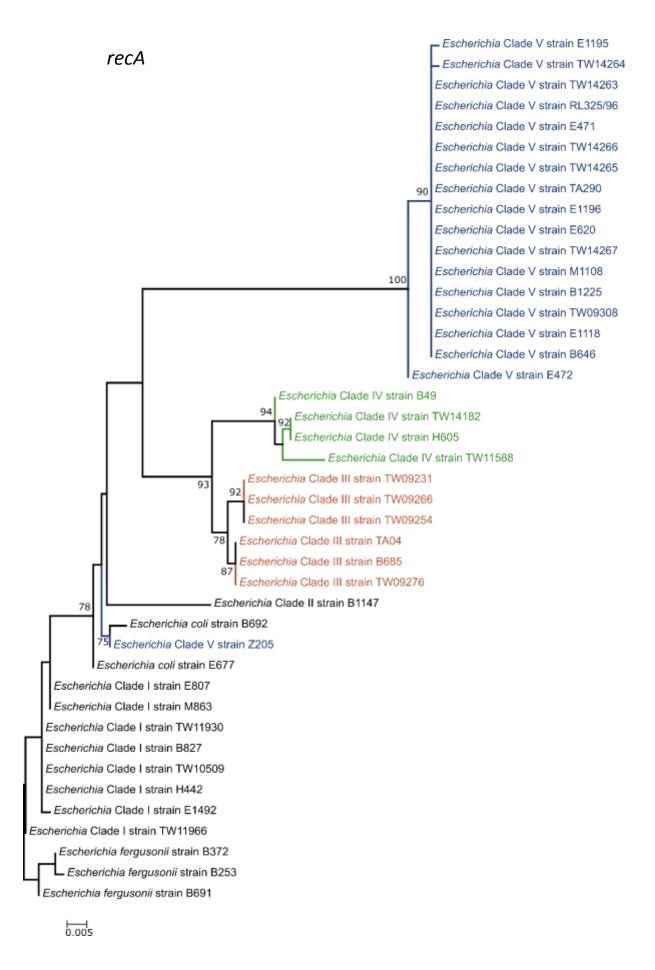


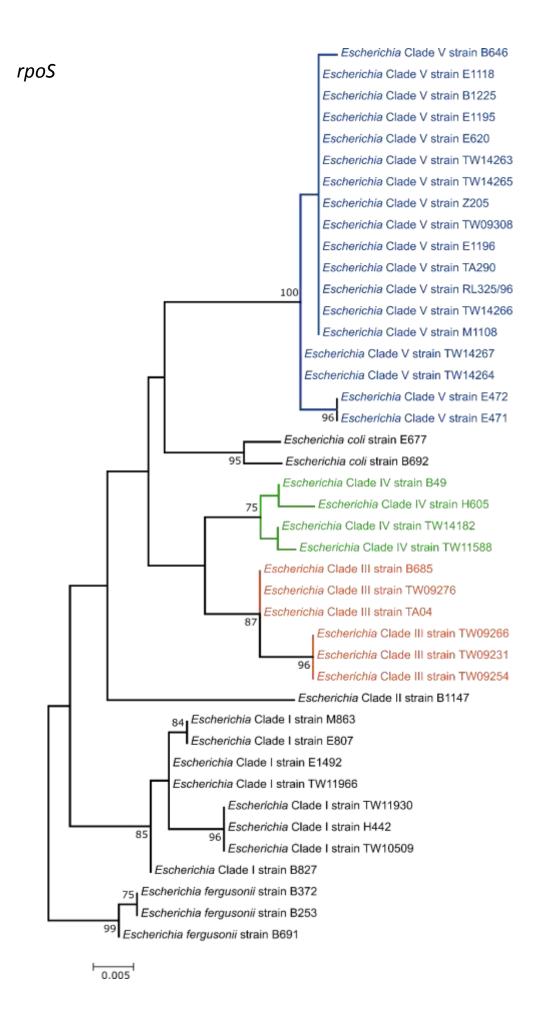












Escherichia Clade V strain TA290 torC Escherichia Clade V strain E471 Escherichia Clade V strain E472 Escherichia Clade V strain E1118 91 Escherichia Clade V strain B1225 Escherichia Clade V strain TW09308 Escherichia Clade V strain E1196 Escherichia Clade V strain TW14267 Escherichia Clade V strain Z205 Escherichia Clade V strain TW14266 Escherichia Clade V strain TW14264 Escherichia Clade V strain RL325/96 Escherichia Clade V strain M1108 Escherichia Clade V strain E620 Escherichia Clade V strain E1195 Escherichia Clade III strain TW09254 100 Escherichia Clade III strain TW09231 Escherichia Clade III strain TW09266 Escherichia Clade IV strain H605 95 Escherichia Clade IV strain B49 79 Escherichia Clade IV strain TW11588 Escherichia coli strain E677 Escherichia Clade IV strain TW14182 Escherichia Clade III strain TA04 100 Escherichia Clade III strain TW09276 Escherichia Clade III strain B685 81 L Escherichia coli strain B692 Escherichia Clade I strain TW11966 Escherichia Clade V strain B646 100 Escherichia Clade V strain TW14263 Escherichia Clade V strain TW14265 Escherichia Clade II strain B1147 Escherichia fergusonii strain B691 Escherichia fergusonii strain B372 Escherichia Clade I strain M863 - Escherichia Clade I strain E807 Escherichia fergusonii strain B253 Escherichia Clade I strain B827 Escherichia Clade I strain TW10509 Escherichia Clade I strain TW11930 Escherichia Clade I strain H442 Escherichia Clade I strain E1492