

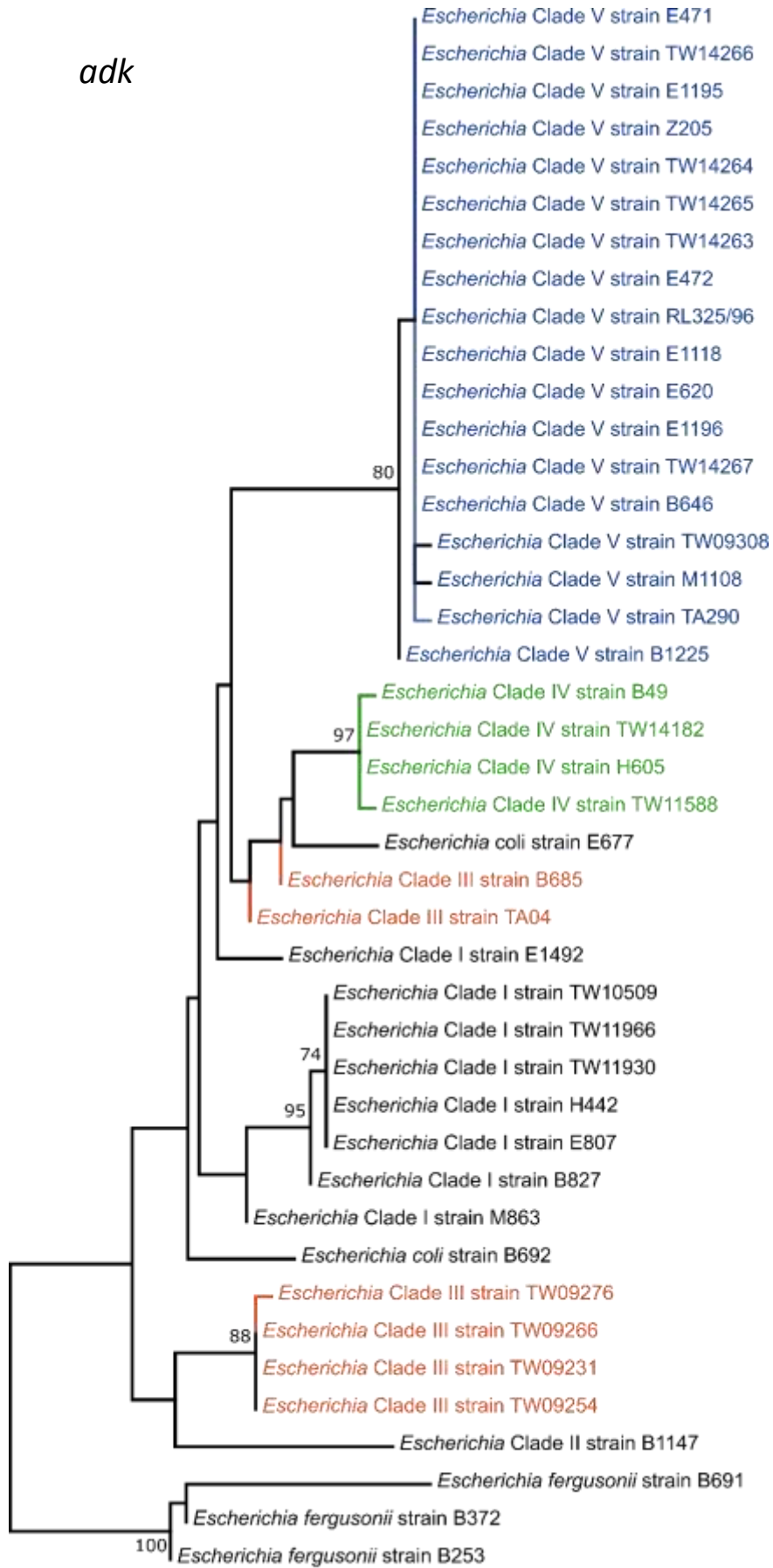
Supplementary File 5

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

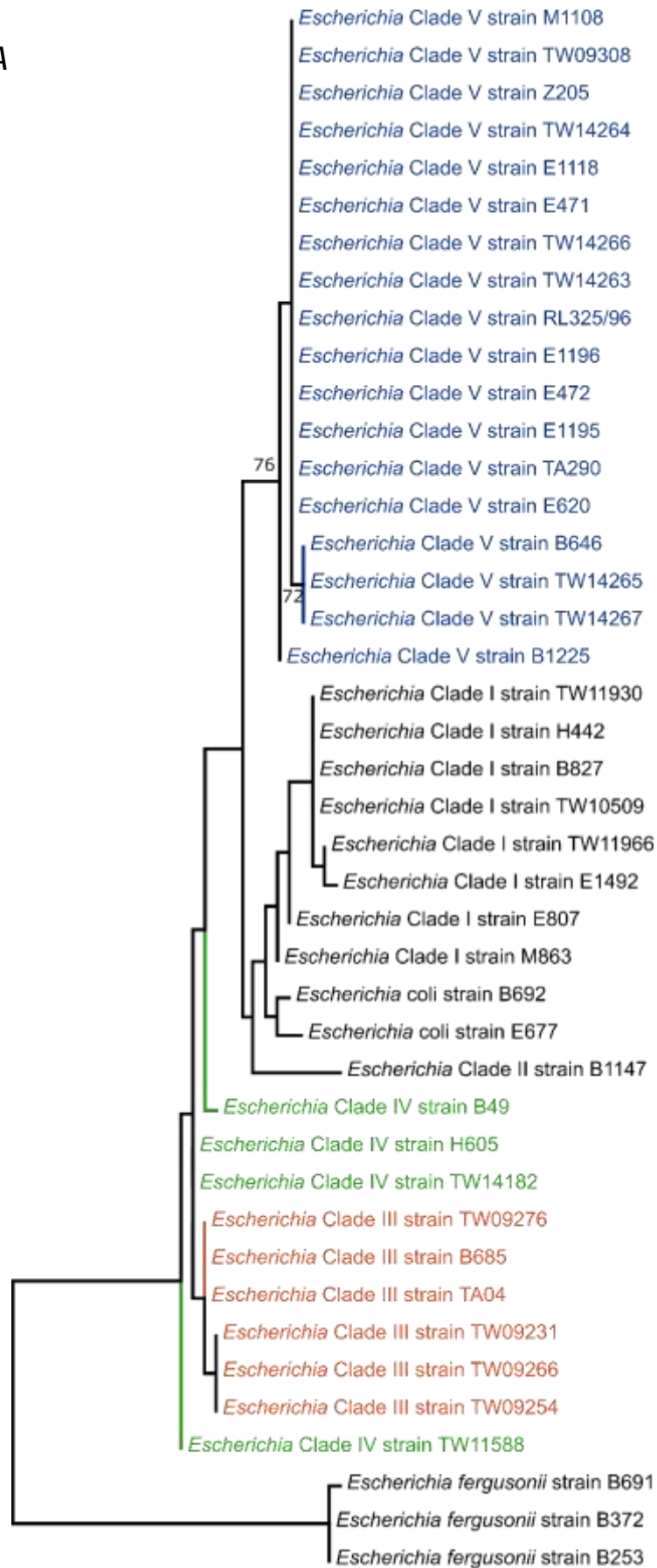
- STAMATAKIS, A. 2014. RAxML version 8: a tool for phylogenetic analysis and post-analysis of large phylogenies. *Bioinformatics*, 30, 1312-1313.
- TAVARÉ, S. 1986. Some probabilistic and statistical problems in the analysis of DNA sequences. *Lectures on mathematics in the life sciences*, 17, 57-86.

adk



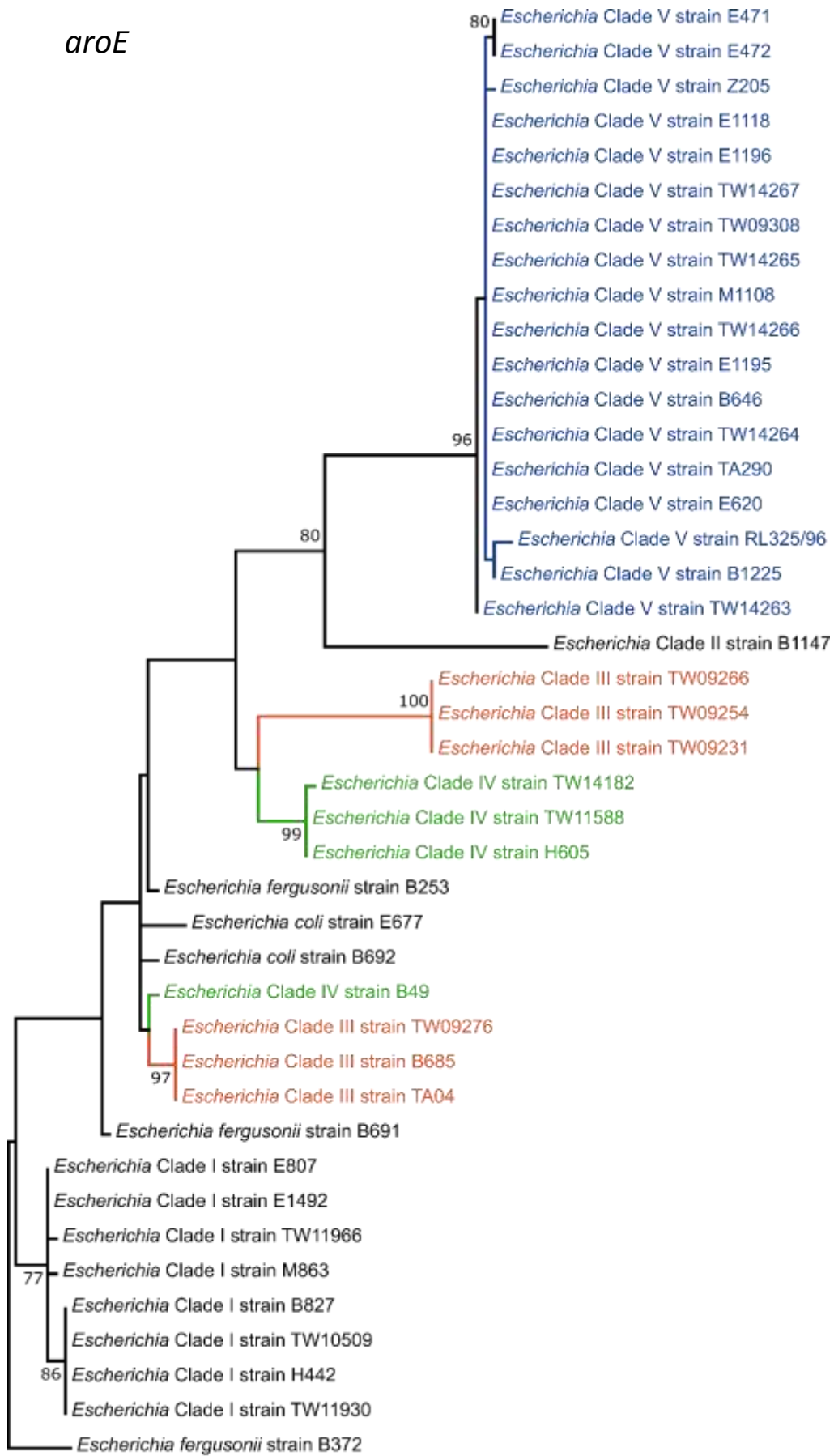
0.005

arCA



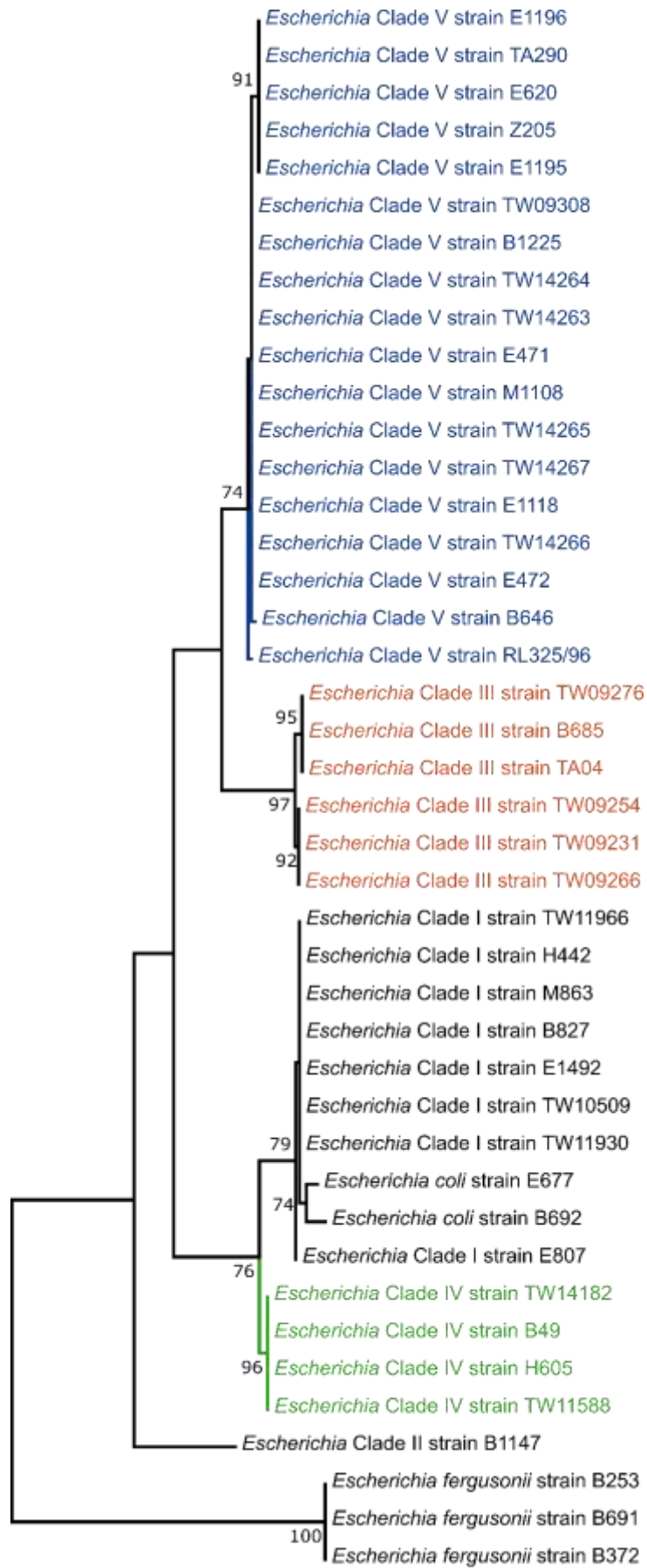
0.002

aroE



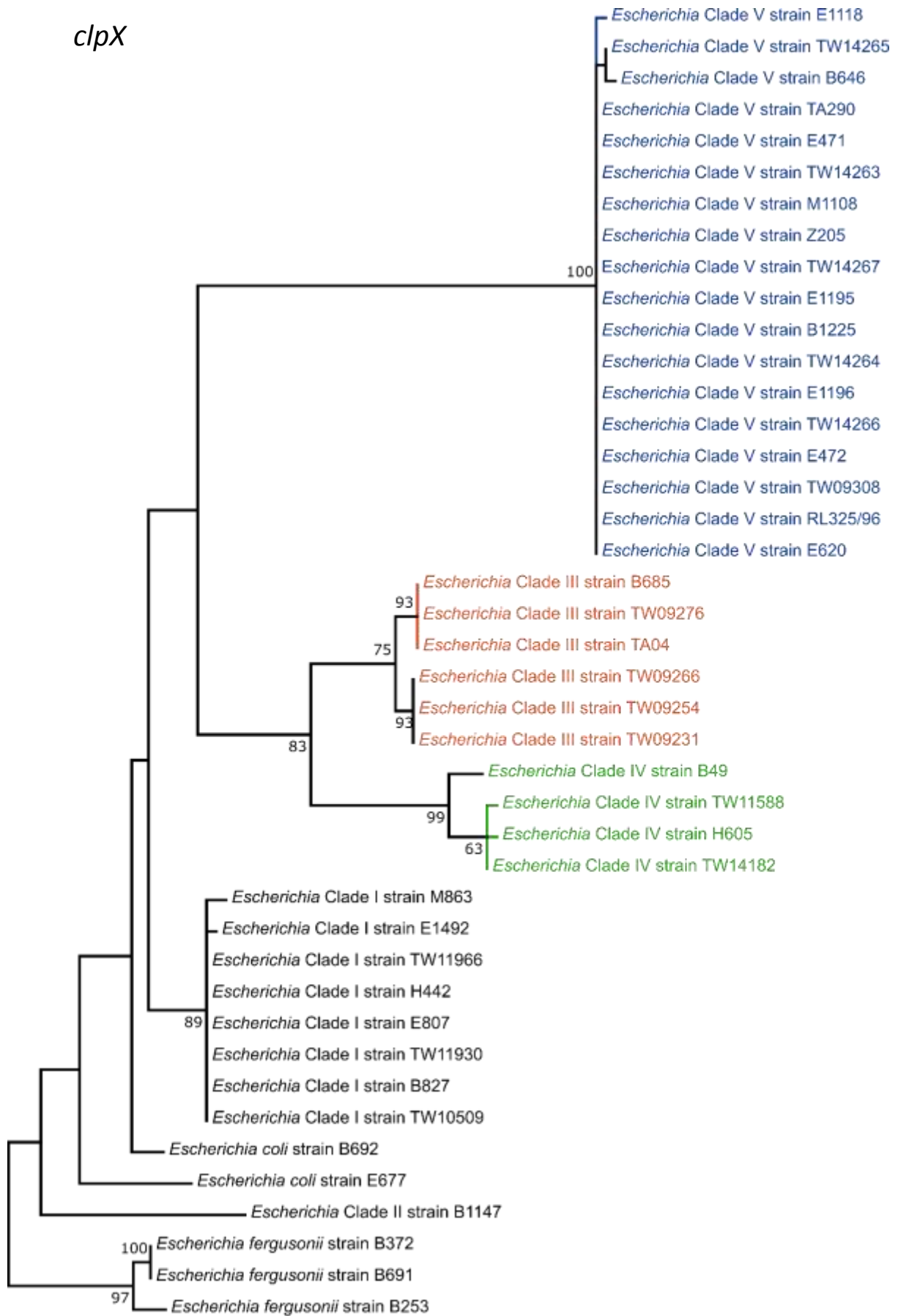
0.01

aspC



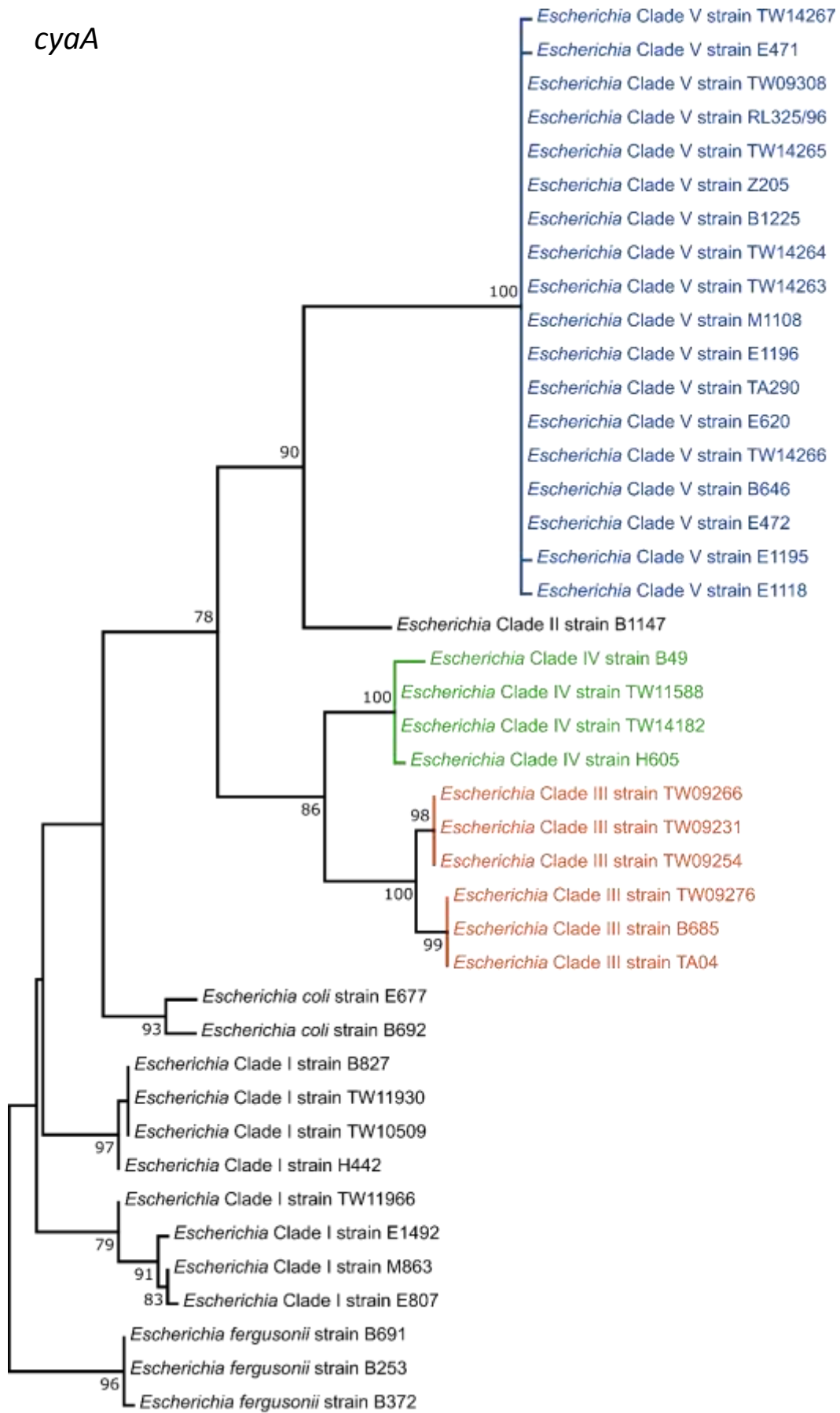
0.05

clpX



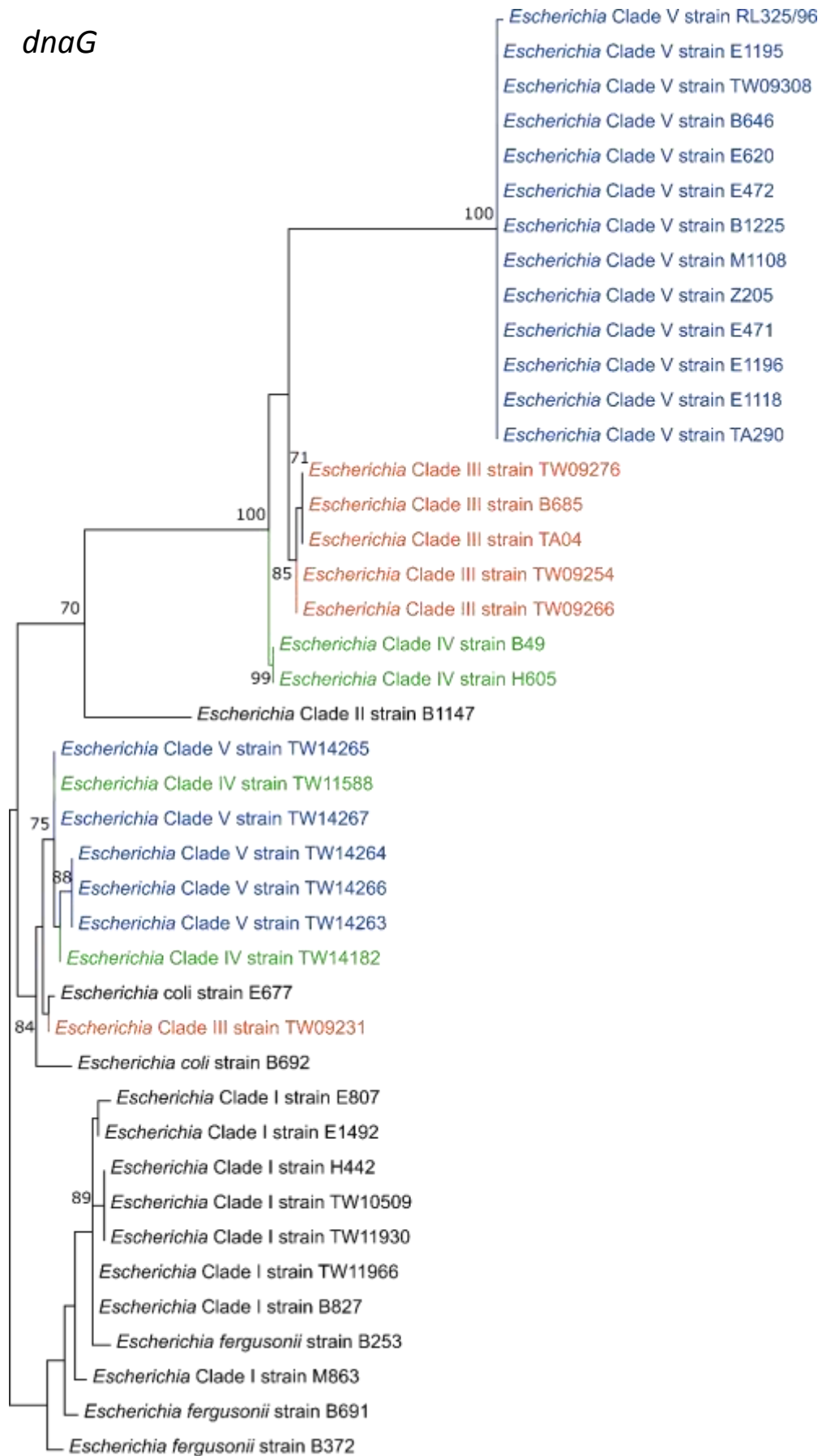
0.01

cyaA



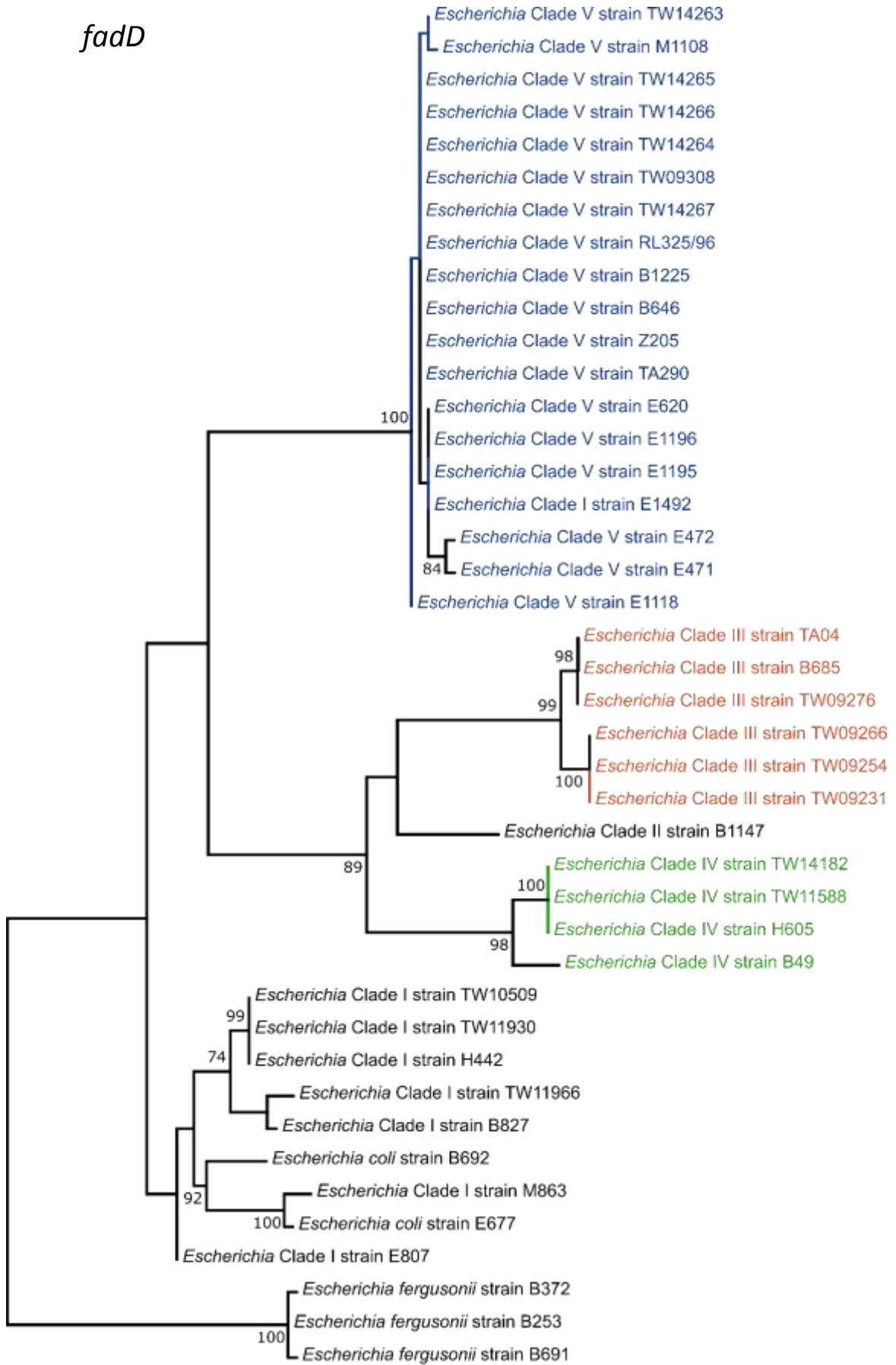
0.01

dnaG



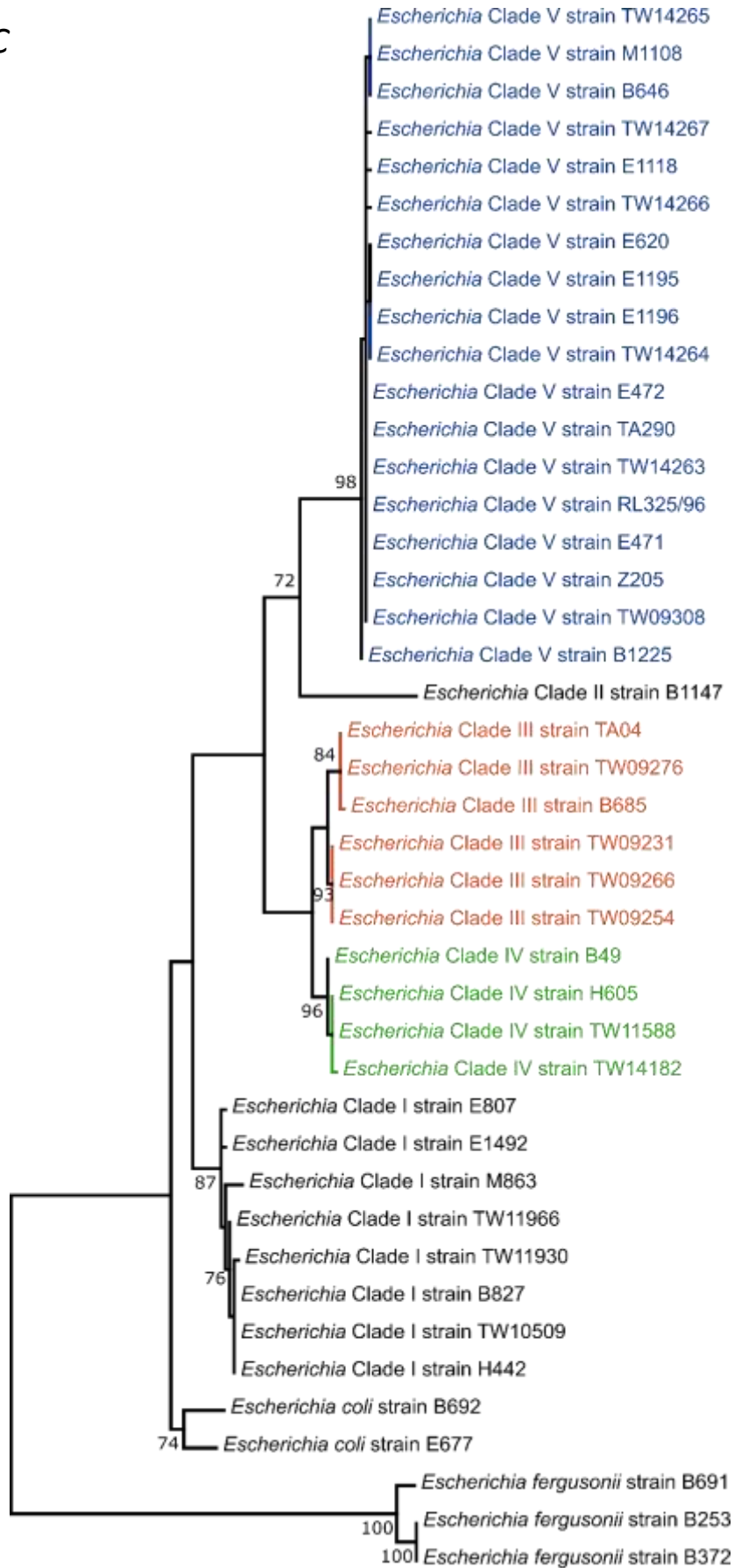
0.01

fadD



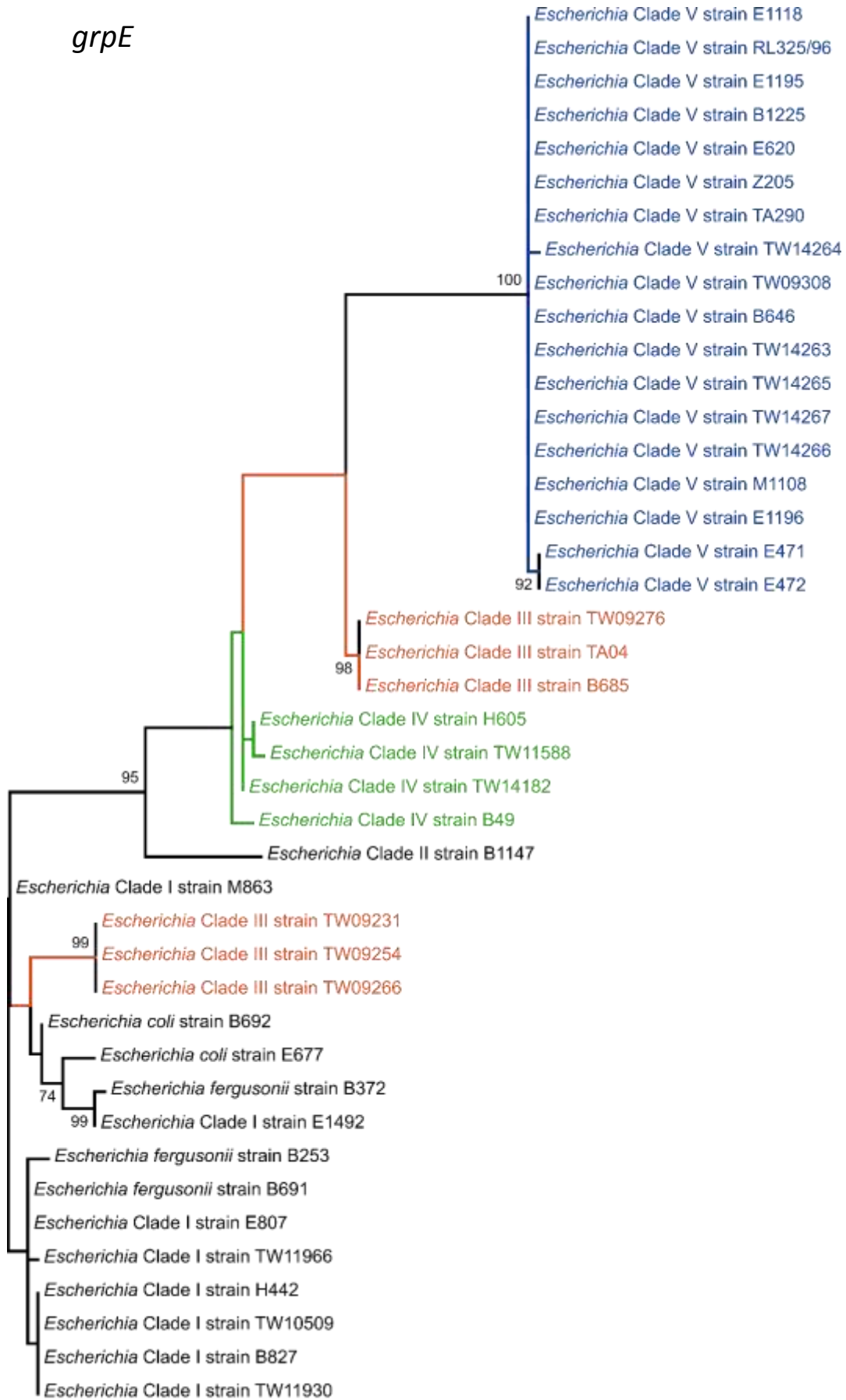
0.01

fumC



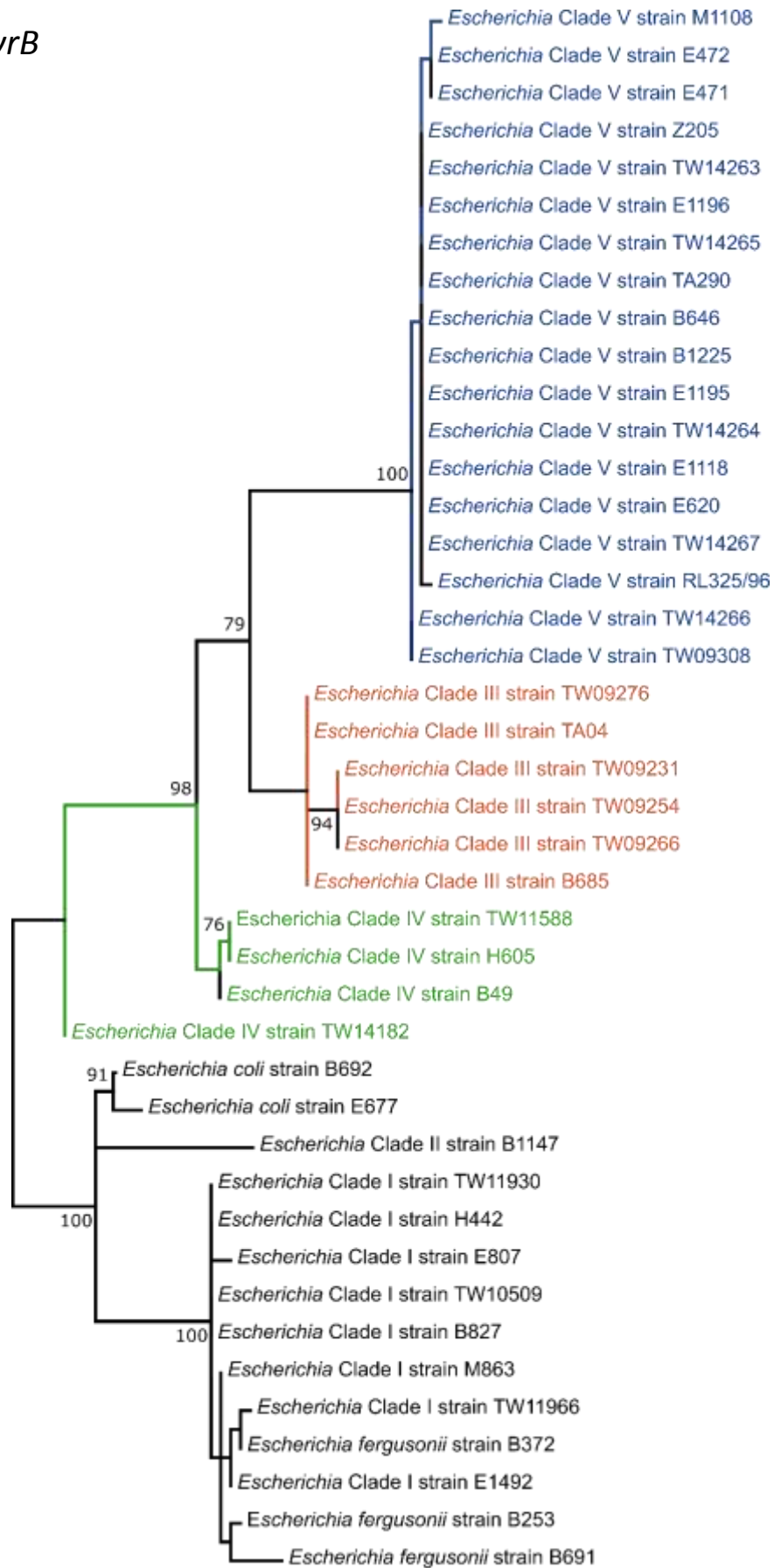
0.01

grpE



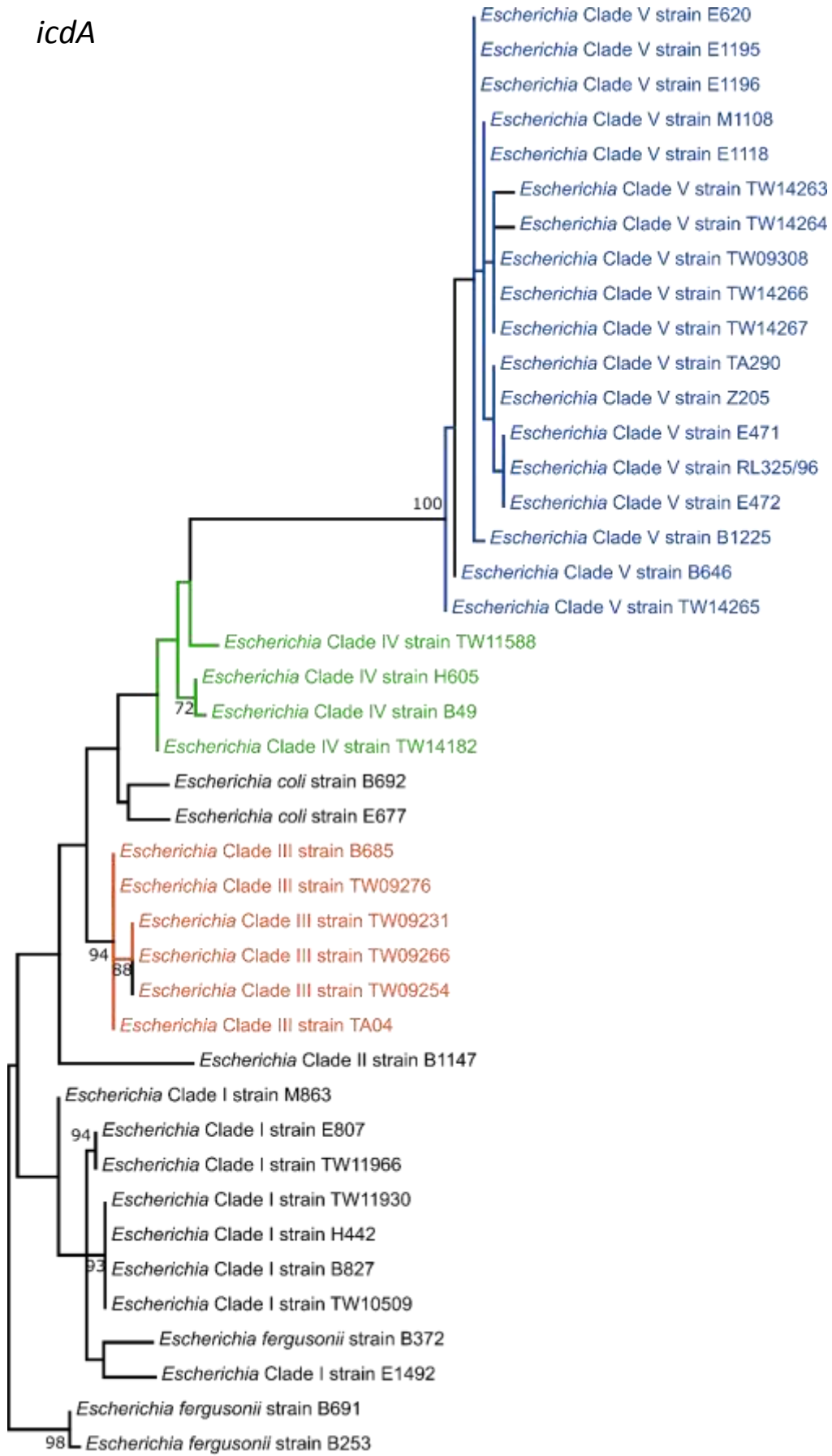
0.01

gyrB



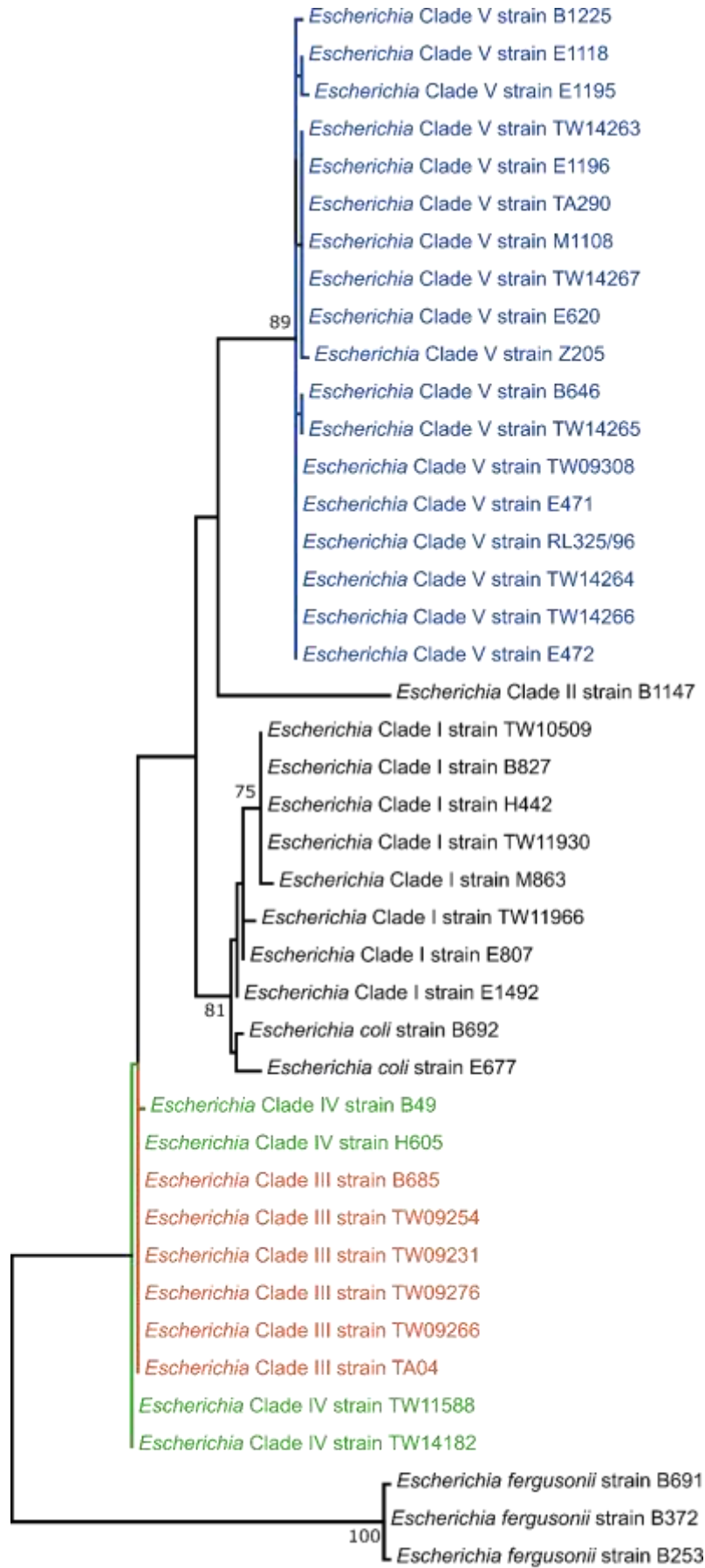
0.01

icdA



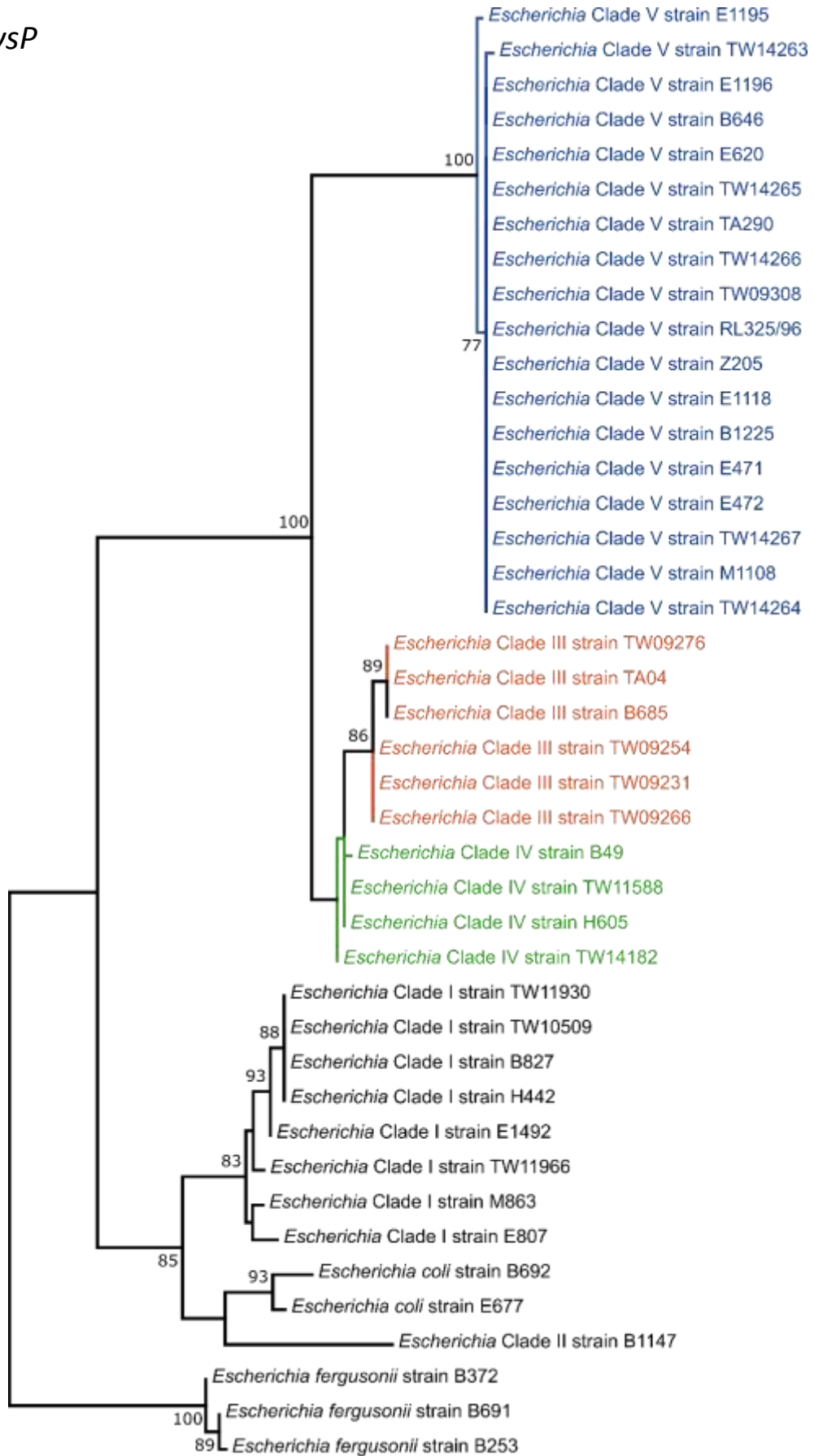
0.01

kdsA



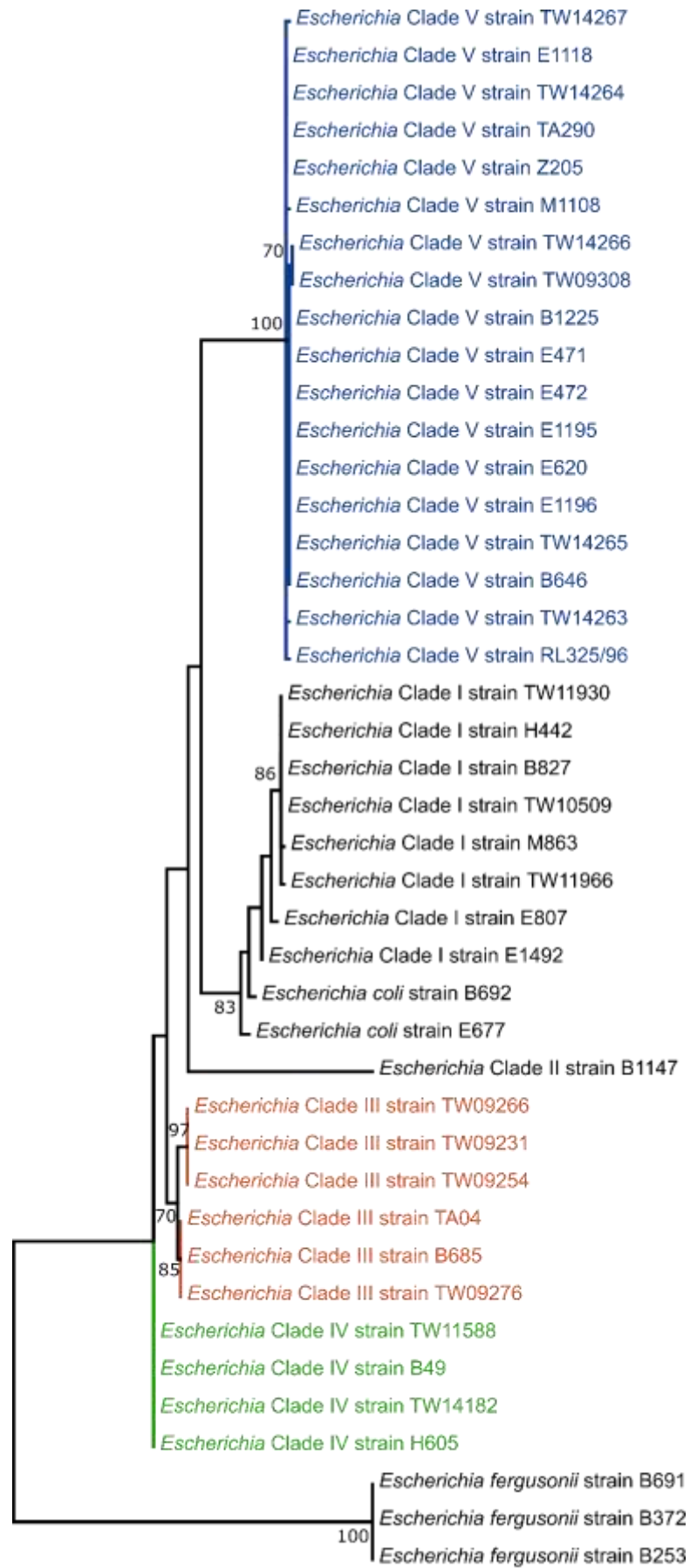
0.005

lysP



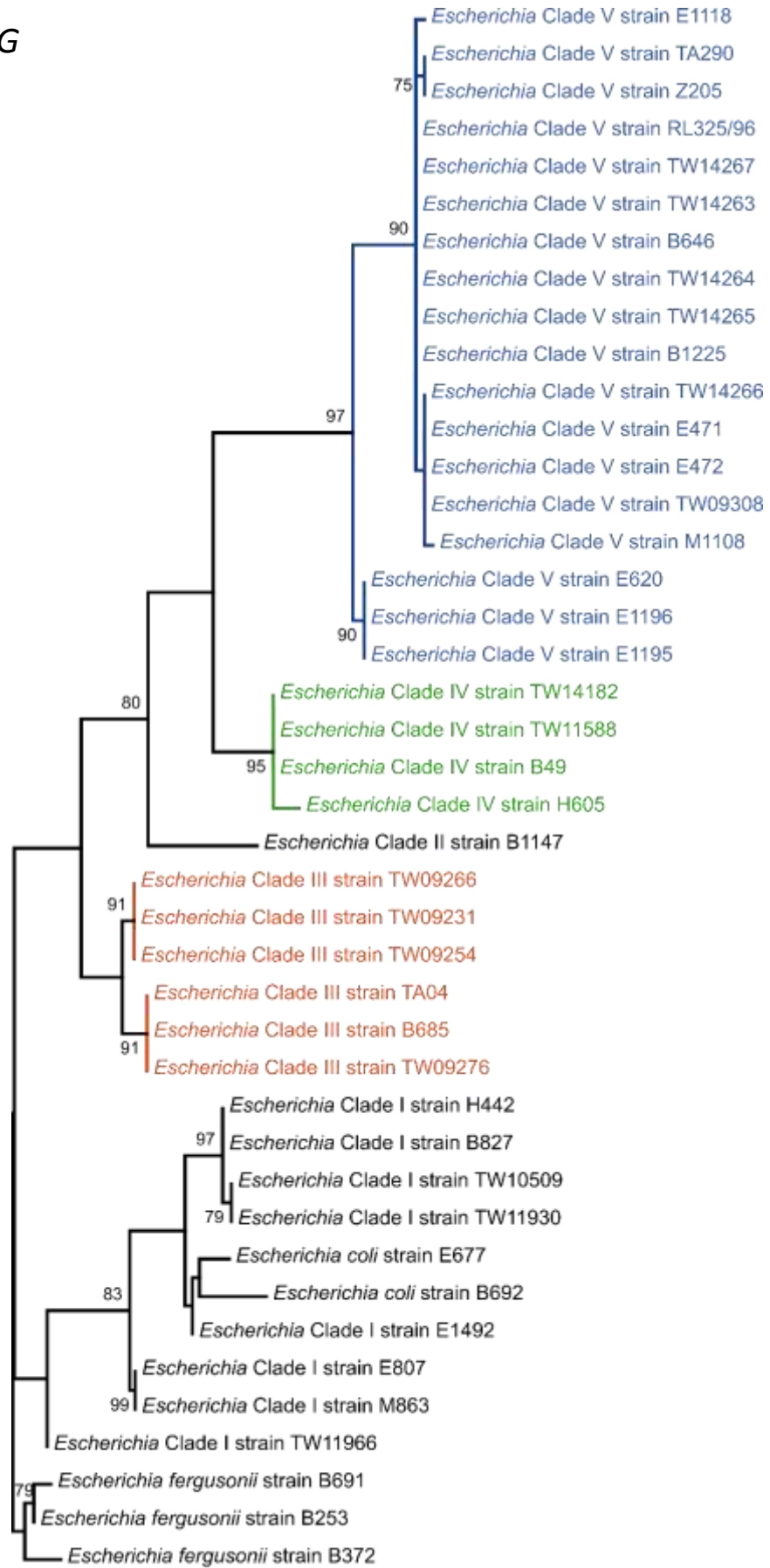
0.01

mdh



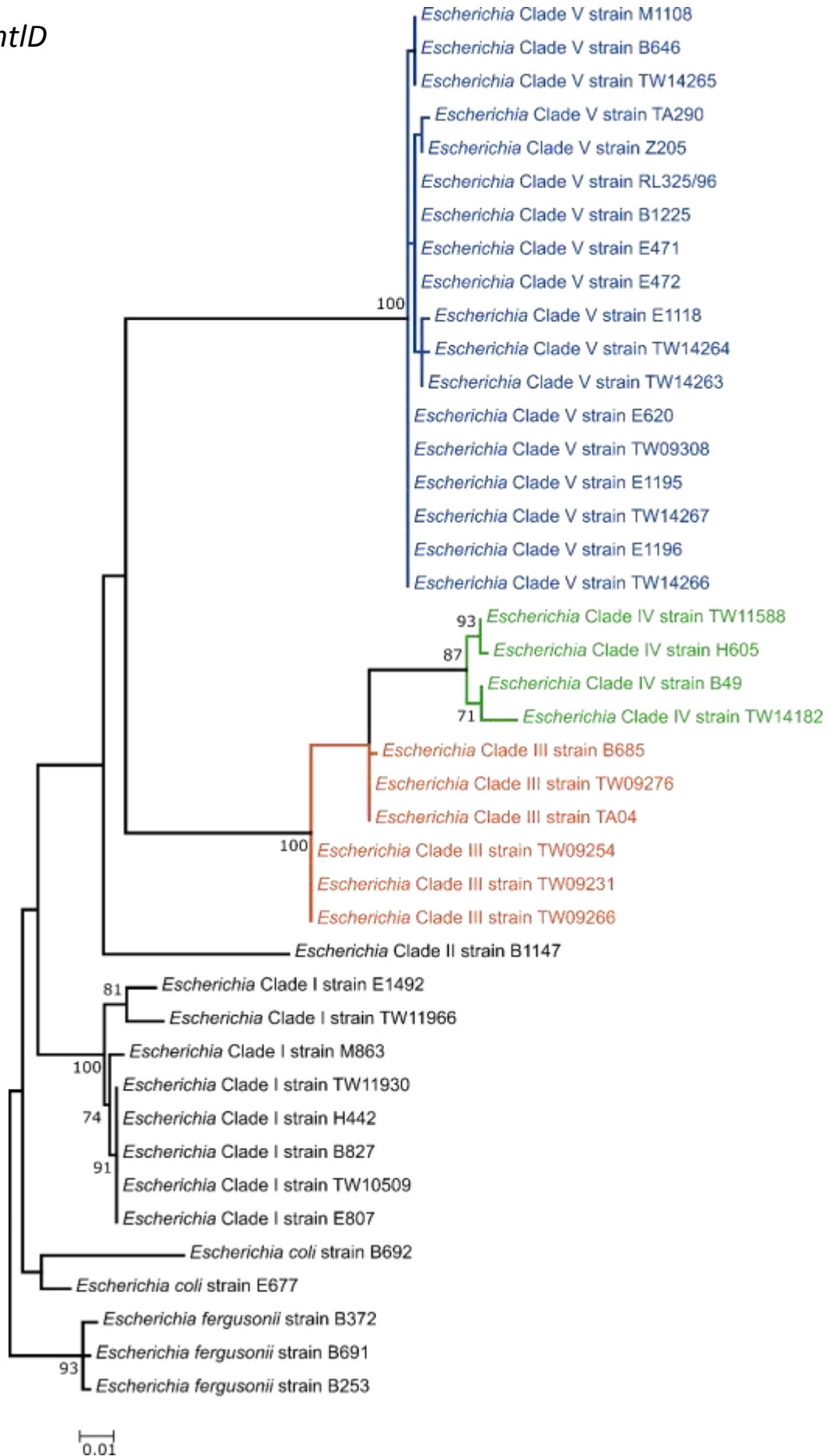
0.01

metG

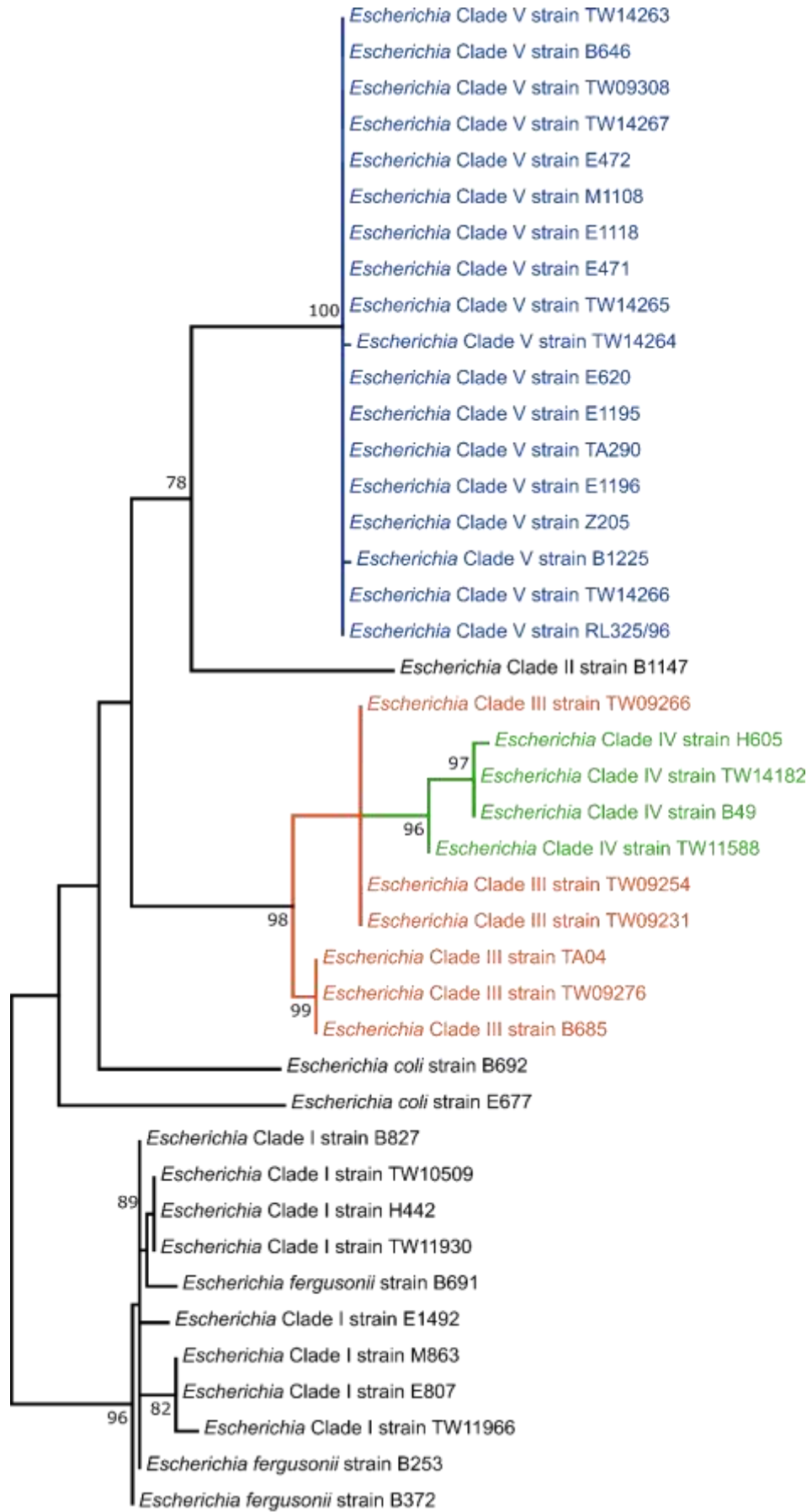


0.01

mtlD

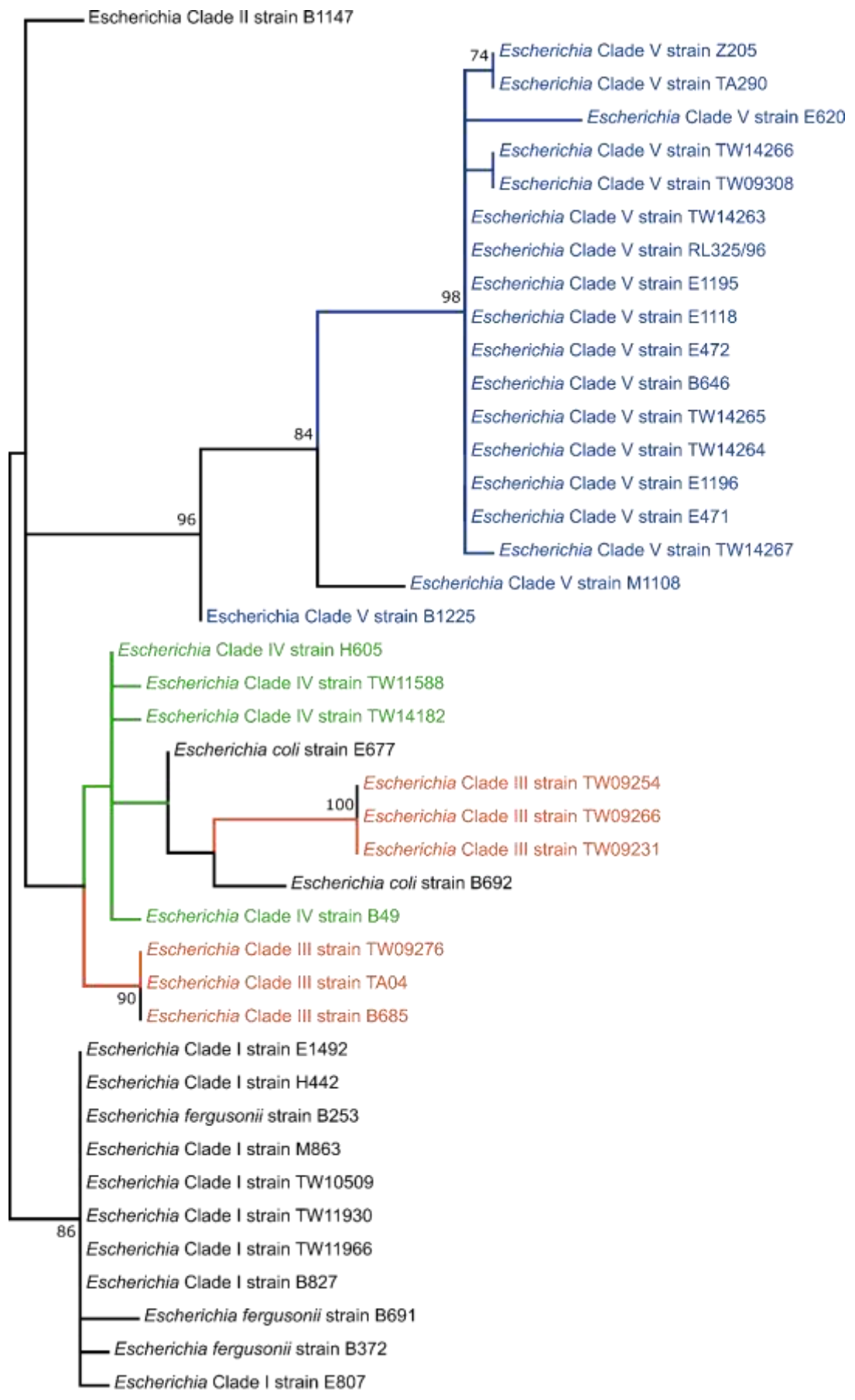


mutS



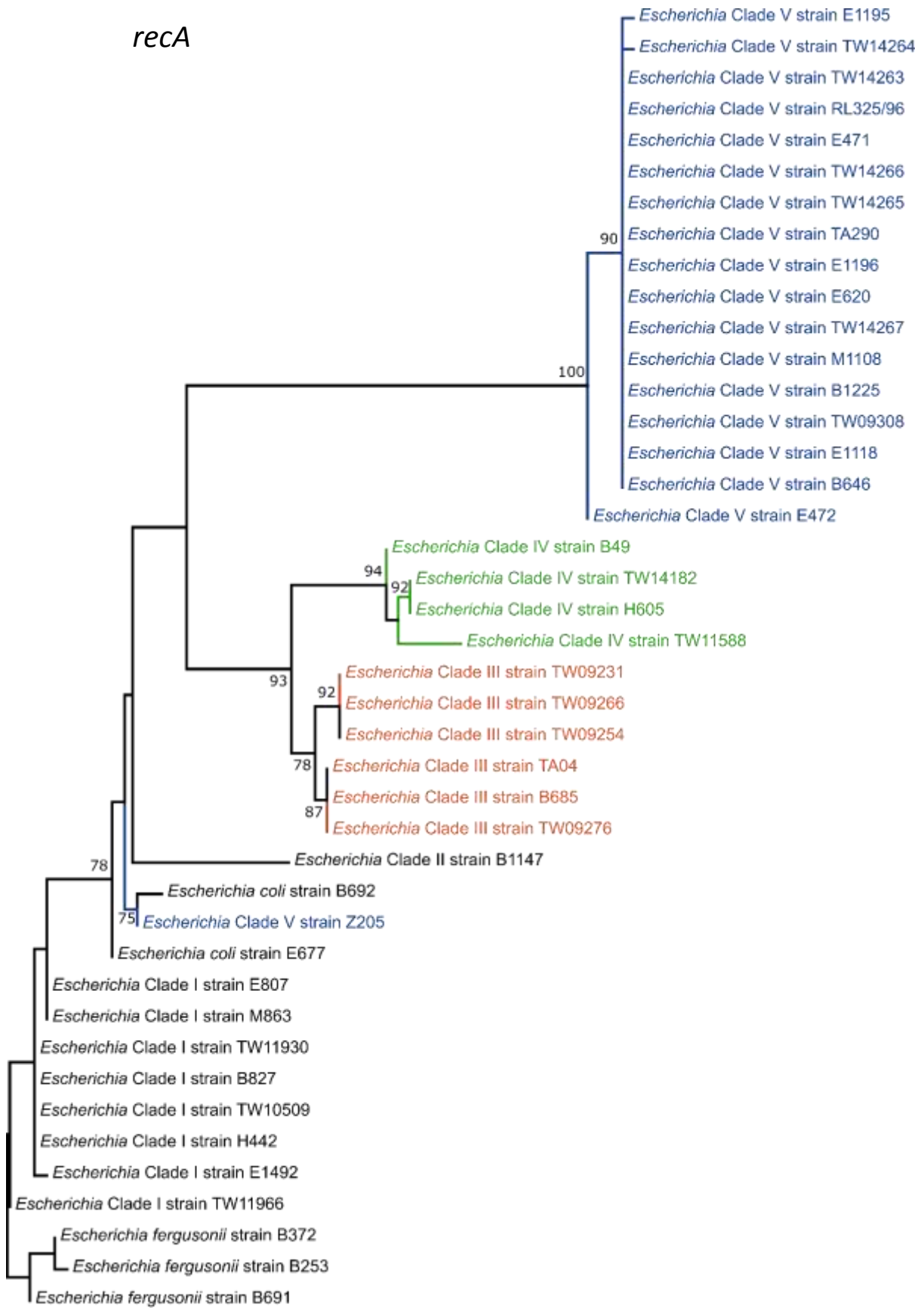
0.01

purA



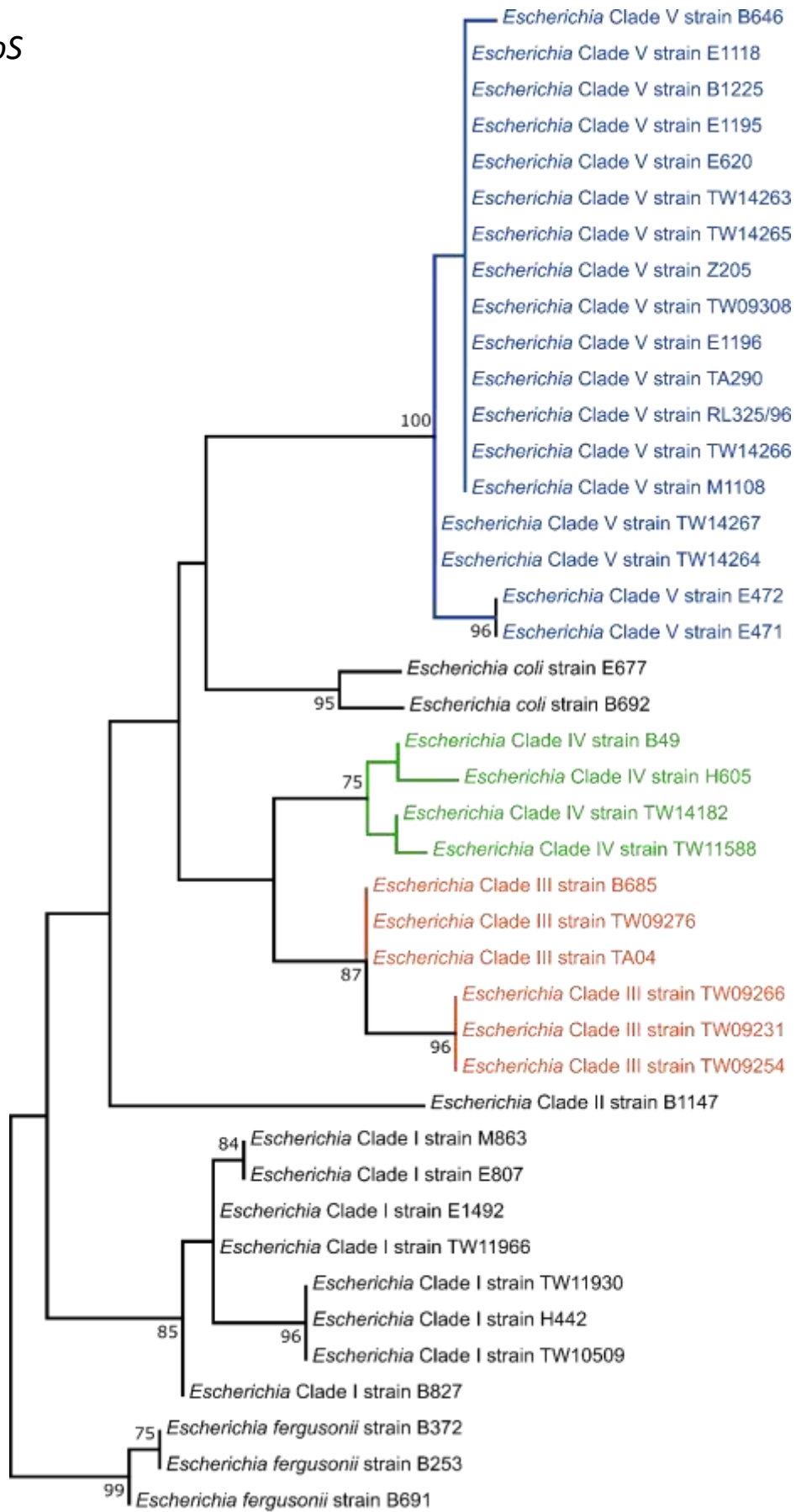
0.002

recA



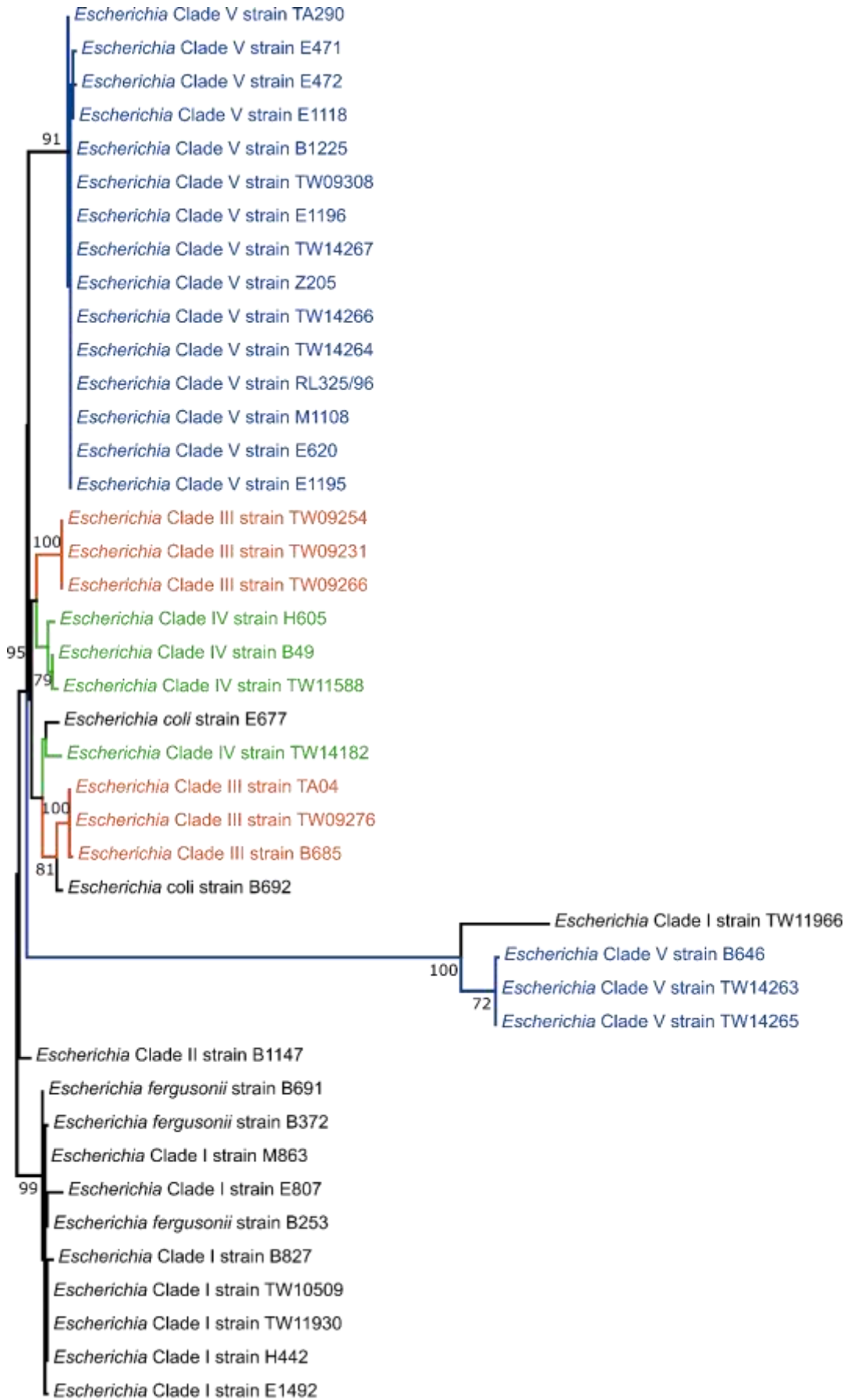
0.005

rpoS



0.005

torC



H
0.01