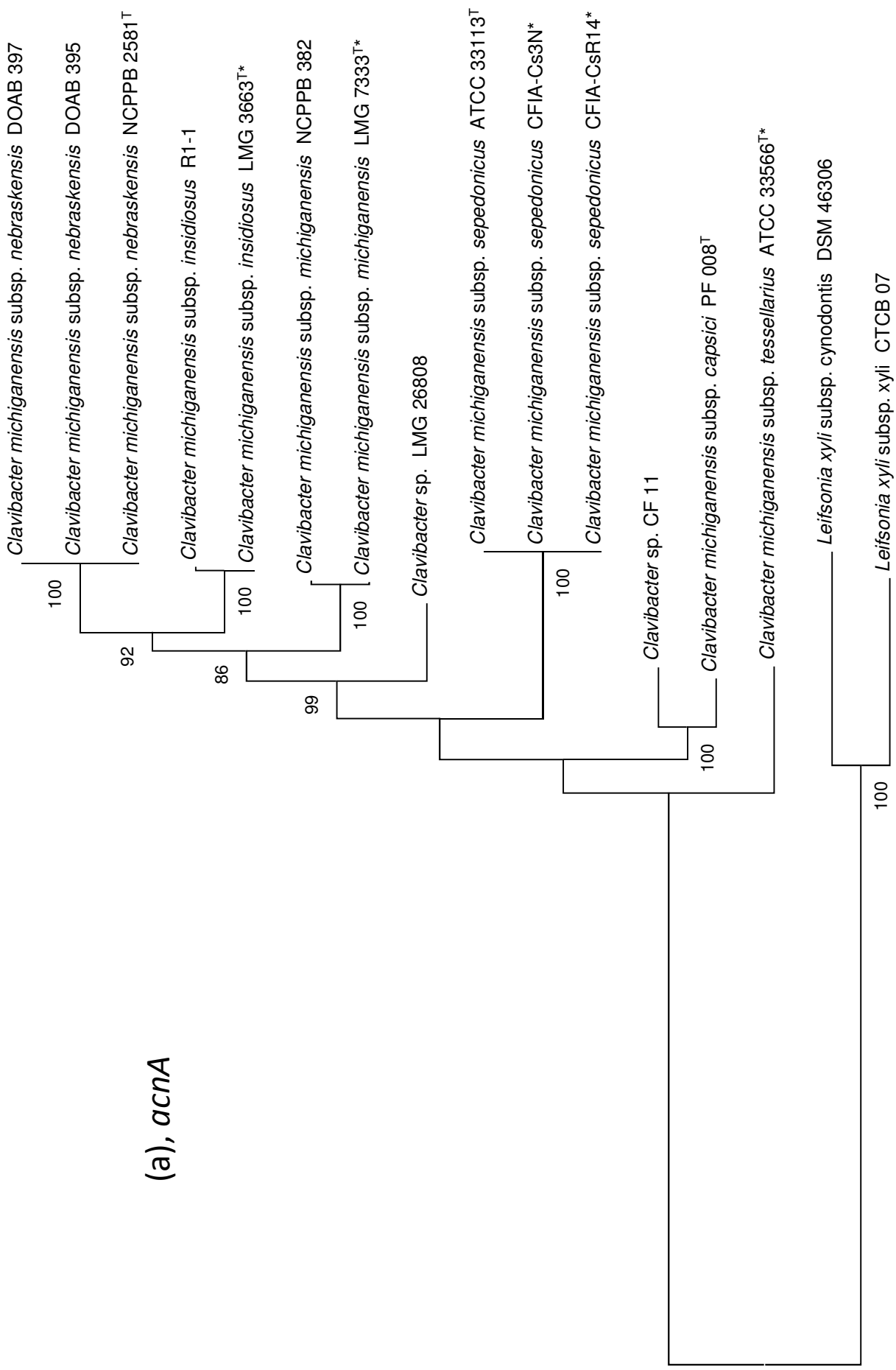


### Supplementary materials

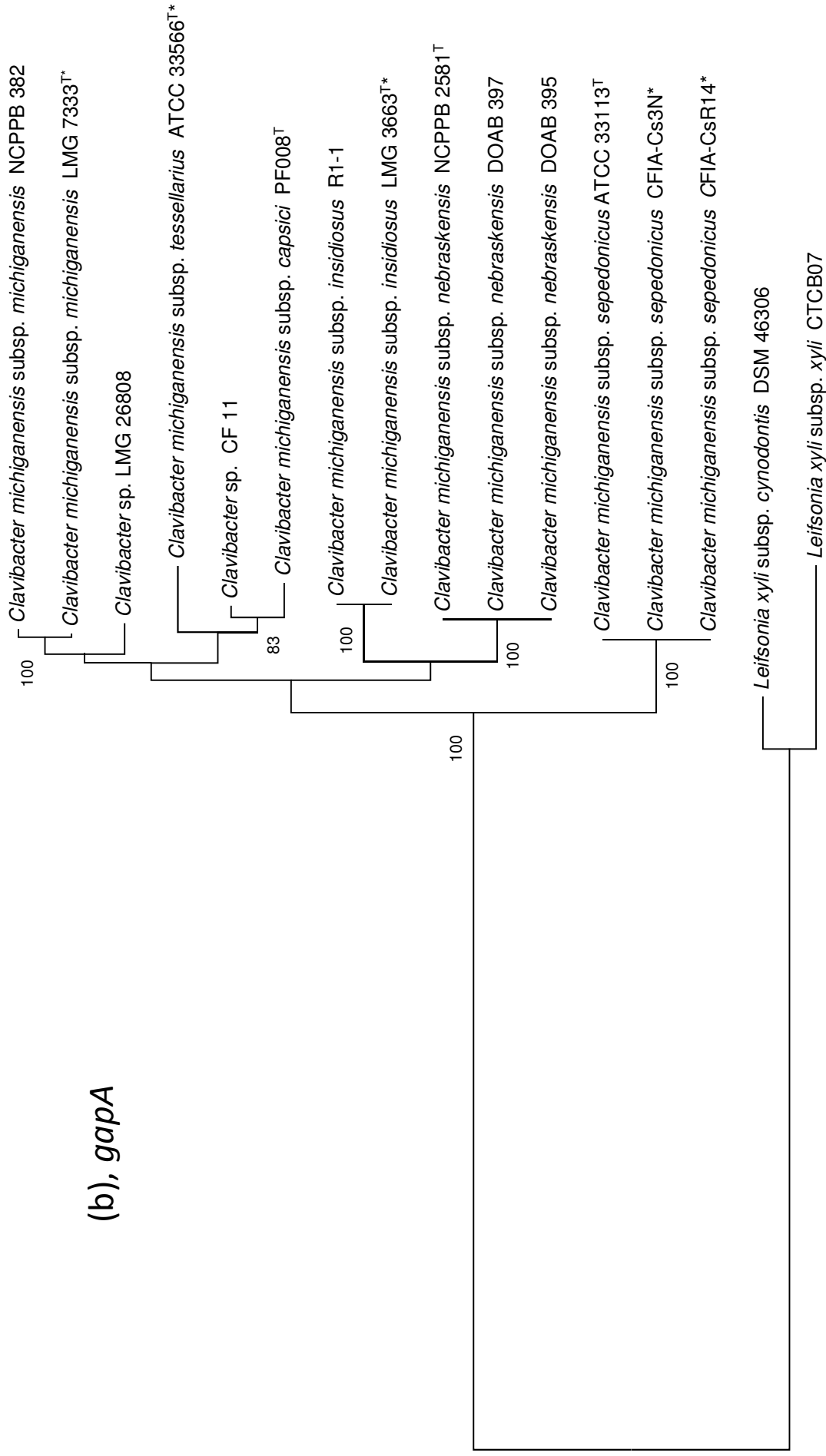
Figure S1. Single gene phylogenetic trees: *acnA* (a), *gapA* (b), *icdA* (c), *mdh* (d), *md1D* (e), *pgi* (f), and *proA* (g) showing relationships of the *Clavibacter* clades of the seven house-keeping gene sequences. *Leifsonia xyli* serves as the out group. \*: Current work. T: Type strain.

(a), *acnA*



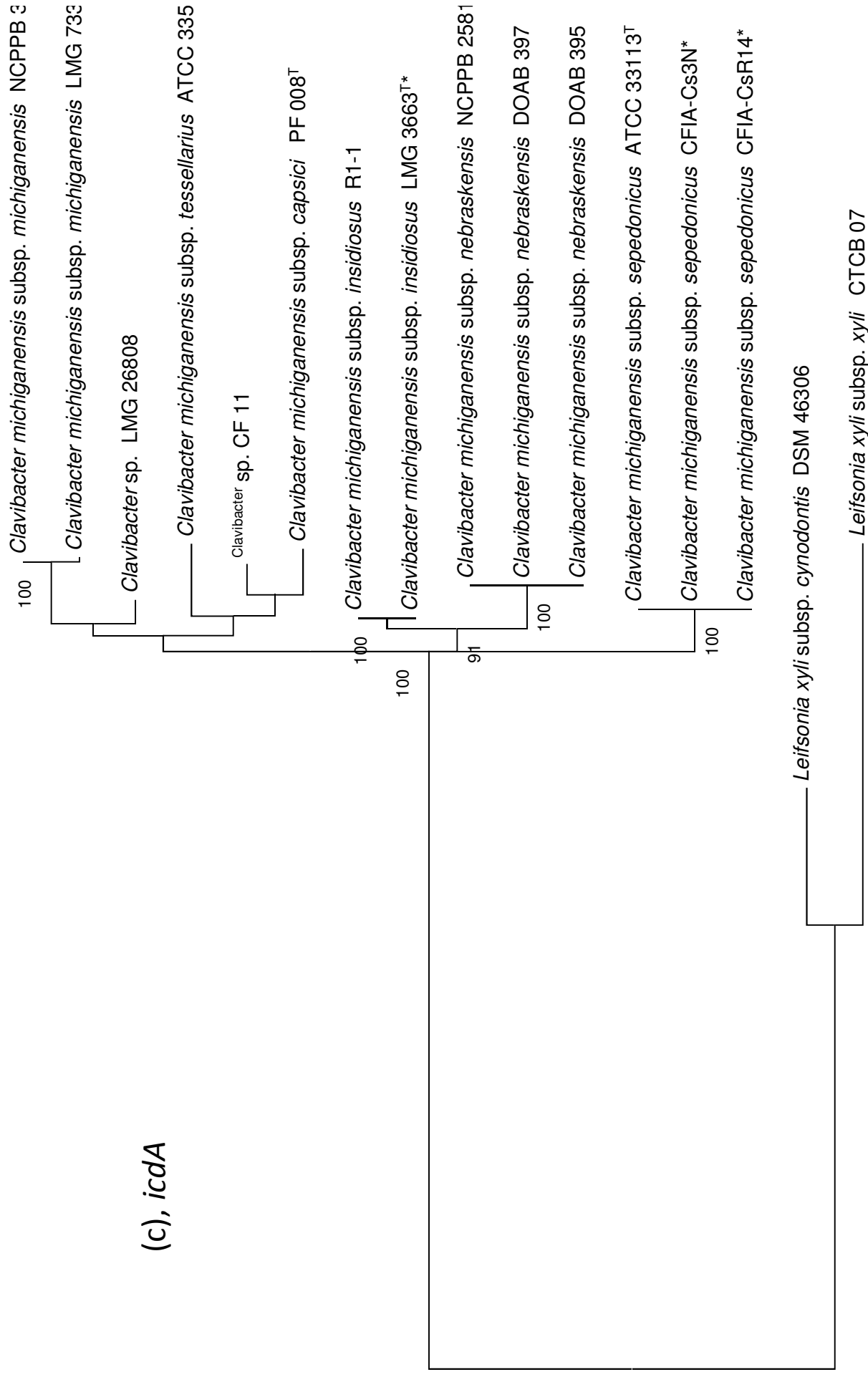
0.05

(b), *gapA*

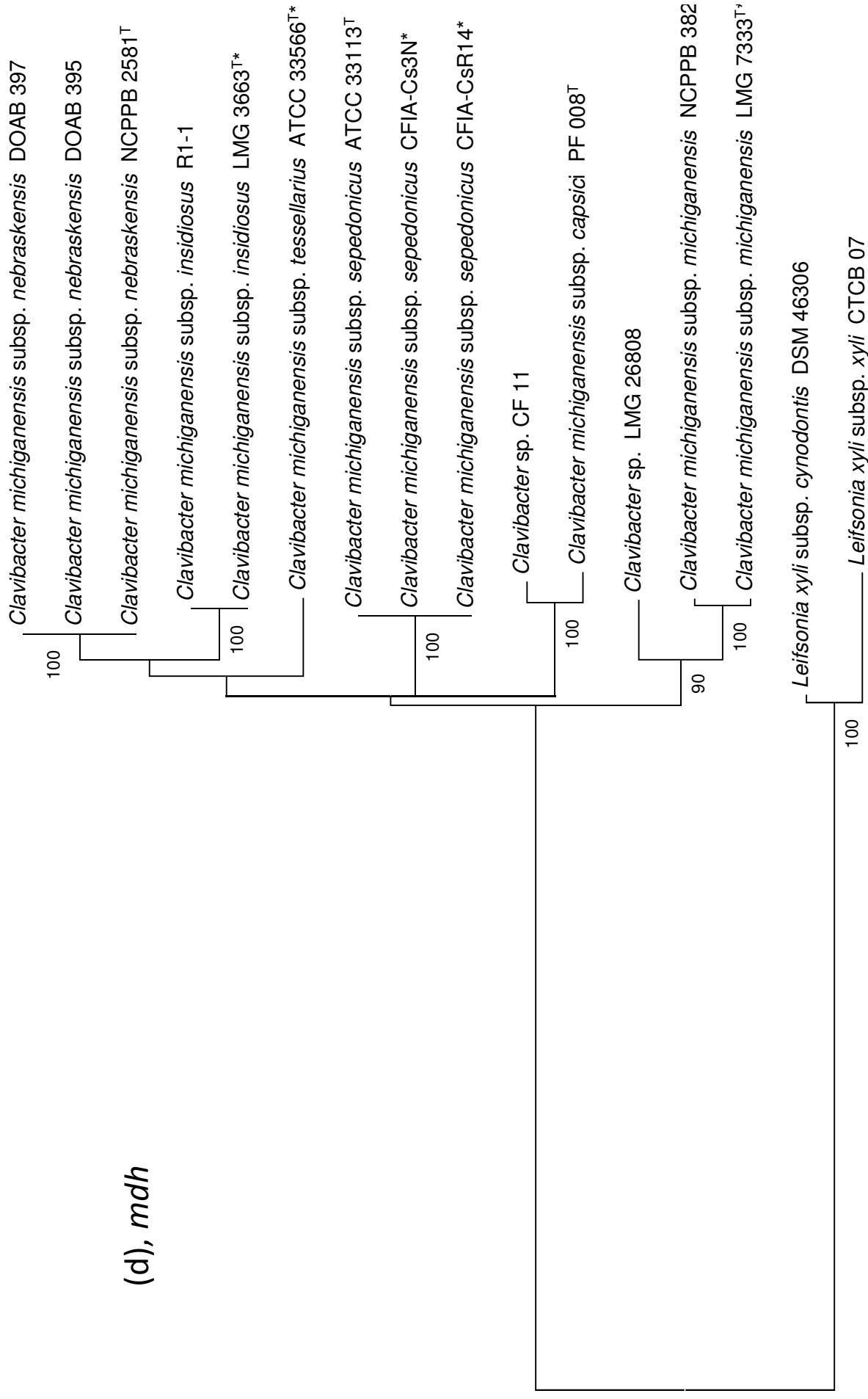


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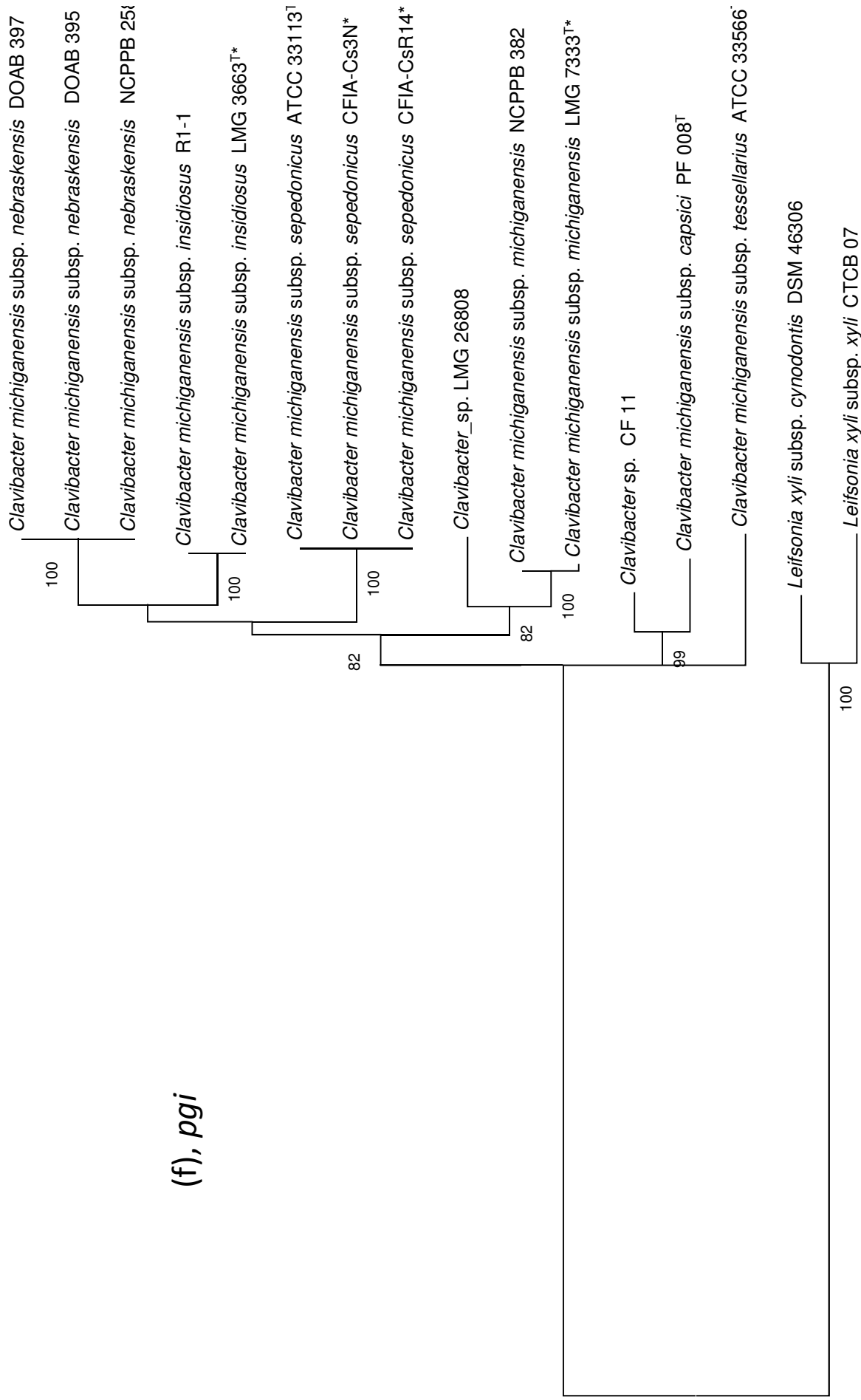
(c), *icdA*

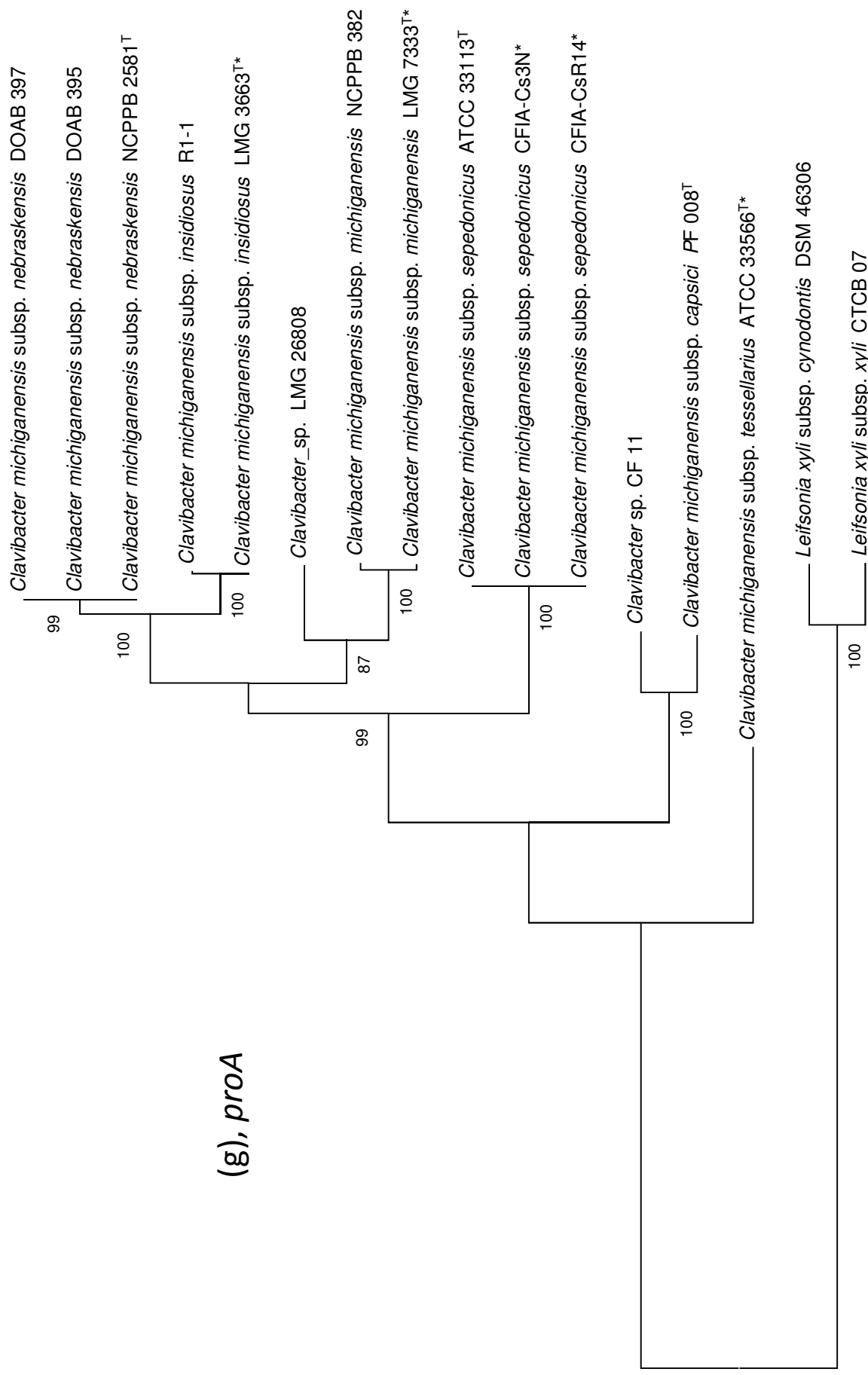


(d), *mdh*









0.05