

Fig. S1 % G'U bcba MW XybHmcZClass Actinobacteria gc UYg

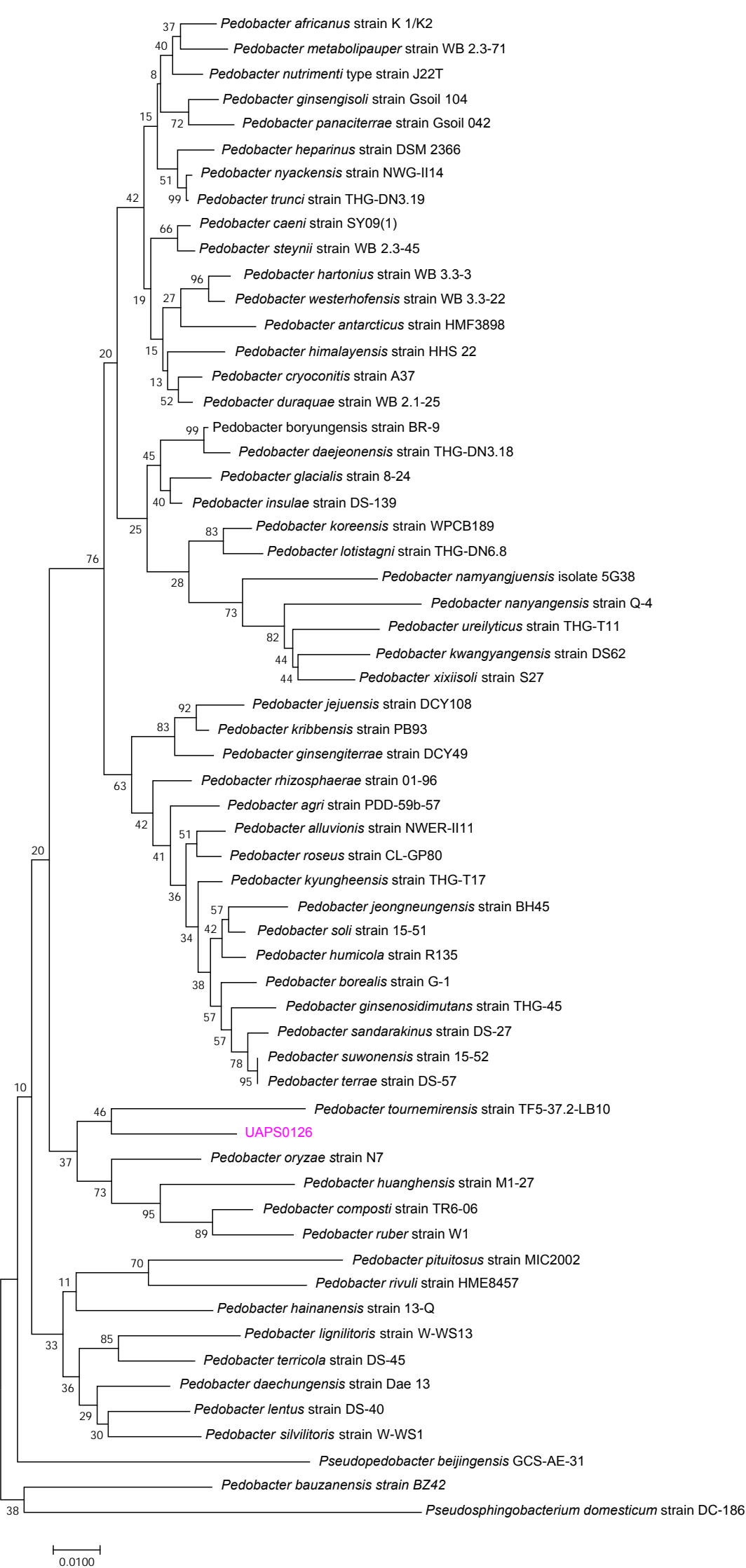
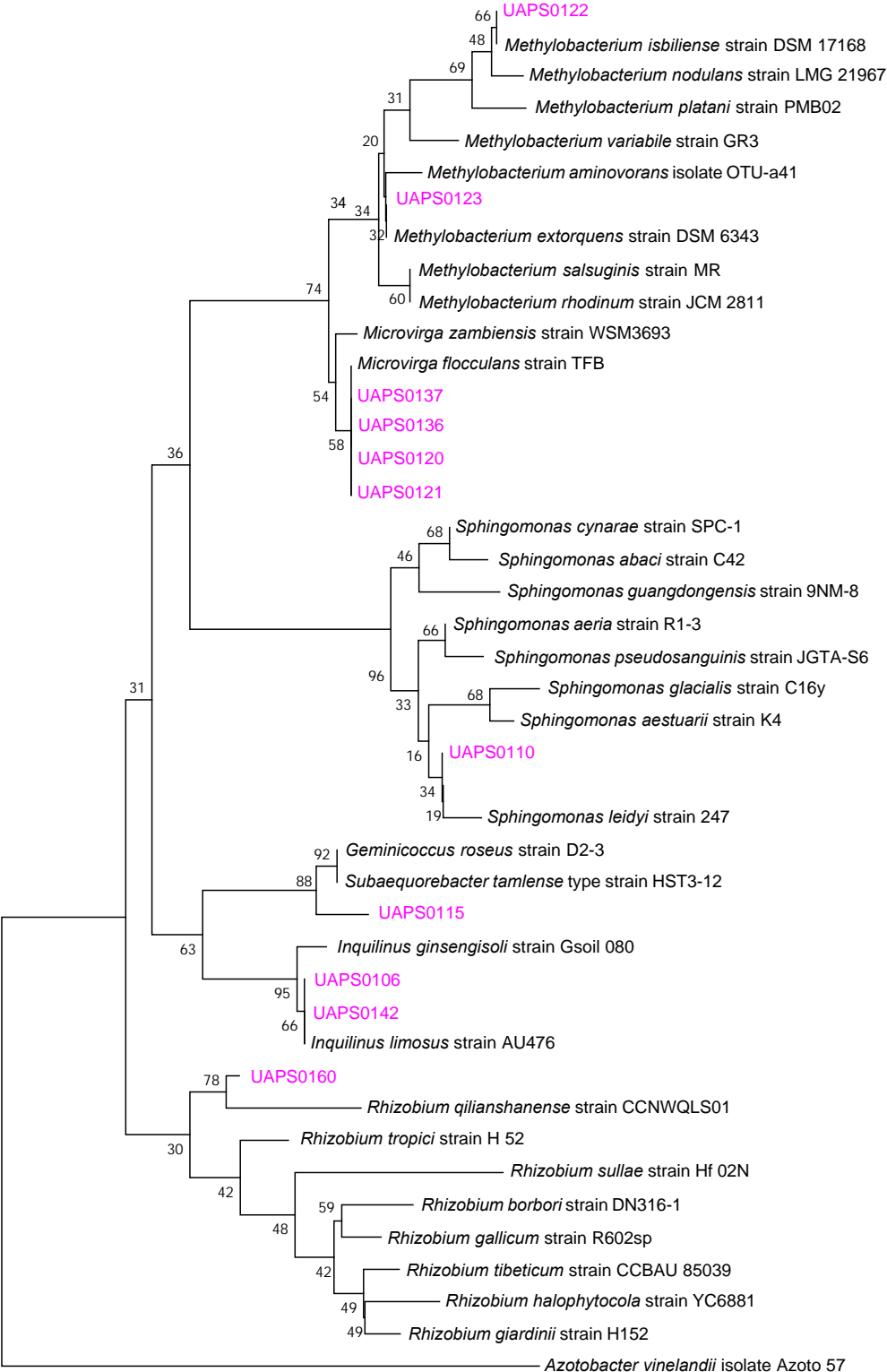


Fig. S1. 16S taxonomical identity of the Class *Sphingobacteriia* isolate



0.0100

Fig. S1. 16S taxonomical identity of Class *Alphaproteobacteria* isolates

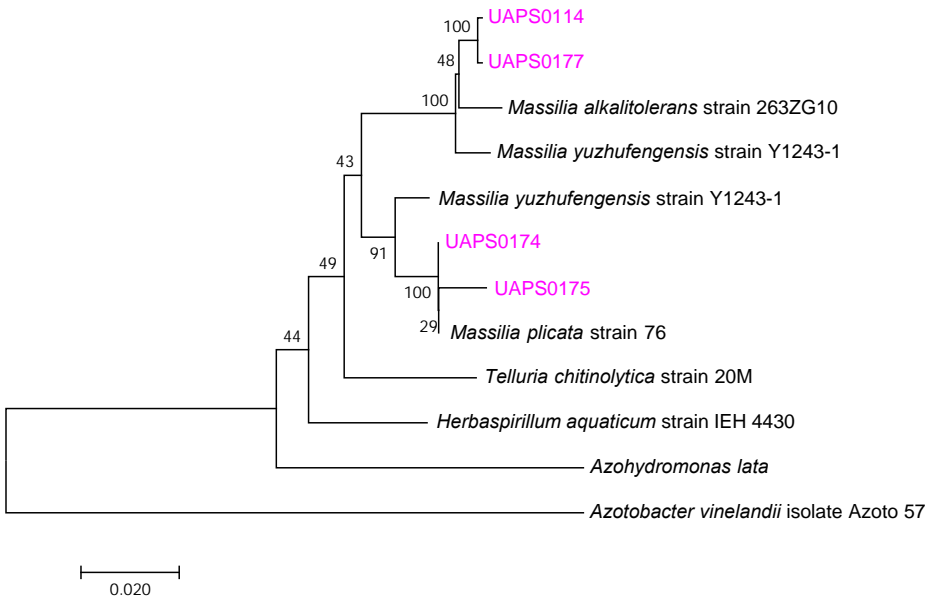
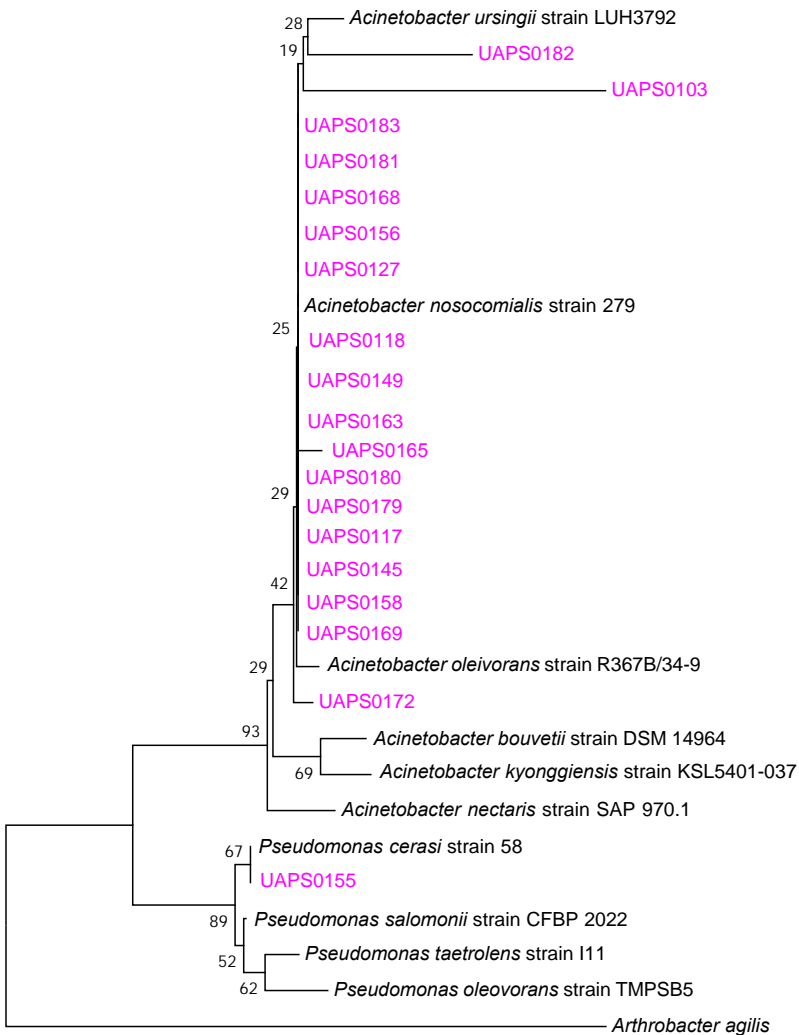


Fig. S1. Phylogenetic tree showing relationships between various bacterial strains. The tree is rooted at the bottom left. A scale bar at the bottom left indicates a distance of 0.020. The tree shows several clades with bootstrap values at the nodes. The clade containing UAPS0114 and UAPS0177 has a bootstrap value of 100. The clade containing *Massilia alkalitolerans* strain 263ZG10 and *Massilia yuzhufengensis* strain Y1243-1 has a bootstrap value of 100. The clade containing *Massilia yuzhufengensis* strain Y1243-1, UAPS0174, UAPS0175, and *Massilia plicata* strain 76 has a bootstrap value of 43. The clade containing UAPS0174 and UAPS0175 has a bootstrap value of 91. The clade containing UAPS0175 and *Massilia plicata* strain 76 has a bootstrap value of 100. The clade containing *Massilia plicata* strain 76, *Telluria chitinolytica* strain 20M, and *Herbaspirillum aquaticum* strain IEH 4430 has a bootstrap value of 29. The clade containing *Telluria chitinolytica* strain 20M and *Herbaspirillum aquaticum* strain IEH 4430 has a bootstrap value of 49. The clade containing *Herbaspirillum aquaticum* strain IEH 4430 and *Azohydromonas lata* has a bootstrap value of 44. The clade containing *Azohydromonas lata* and *Azotobacter vinelandii* isolate Azoto 57 has a bootstrap value of 44. The clade containing *Azotobacter vinelandii* isolate Azoto 57 and the other clades has a bootstrap value of 44.

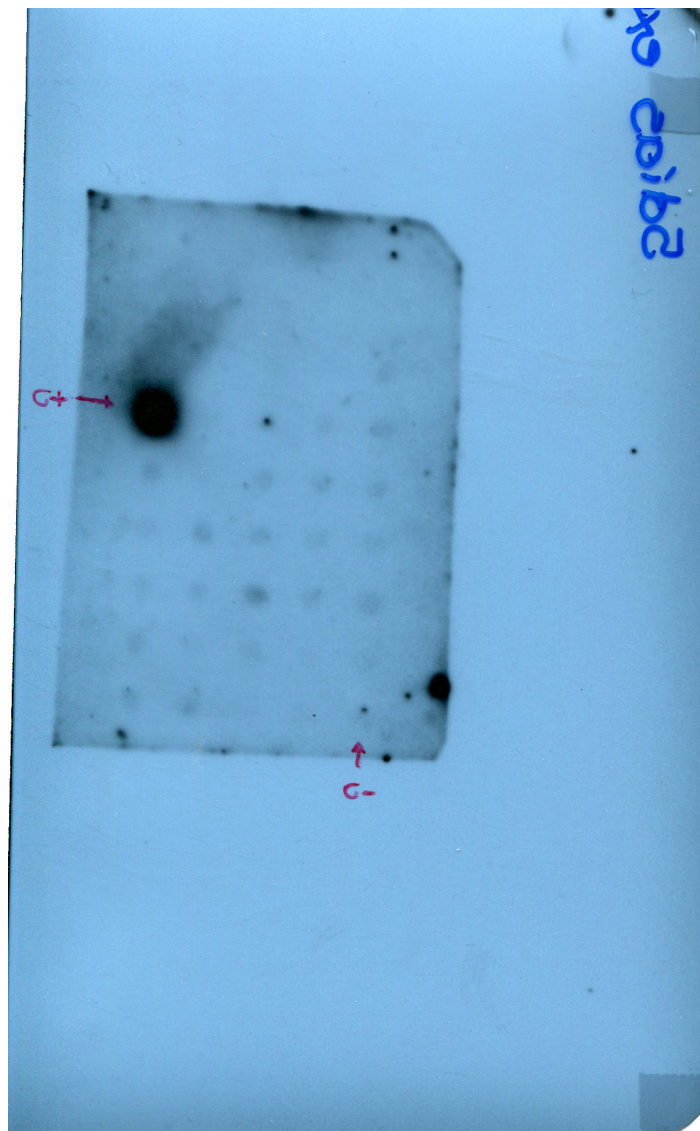


0.020

Fig. S1. 16S taxonomical identity of Class *Gammaproteobacteria* isolates

mxoF DOT BLOT ARRANGMENT

C+	blank	77	75	74
72	Ni	69	68	Ni
63	60	58	56	55
49	45	42	Ni	23
22	21	18	17	15
14	Ni	10	06	C-



Positive control **C+** *Methylobacterium extorquens* JCM2802.

Negative control **C-** *U. maydis* 207.

Numbers indicate the reduced name of the isolates. For example, 77 means UAPS07077.

Ni, strain not included in this work.

Fig. S2. *mxoF* dot blot hybridization

Table S1. Methanol:NDMA (N,N'-dimethyl-4-nitrosoaniline oxidoreductase primers.

Primer	Sequence (5'-3')
NDMAY270F	YCC CAA GGA CTA CAA CGT CAT
NDMAGA270F	CCA AGG ACT ACA ACG TCA TGG A
NDMA270F	CCC AAG GAC TAC AAC GTC AT
NDMA850R	CCS AGN CCR CCS GAG TTG AA
