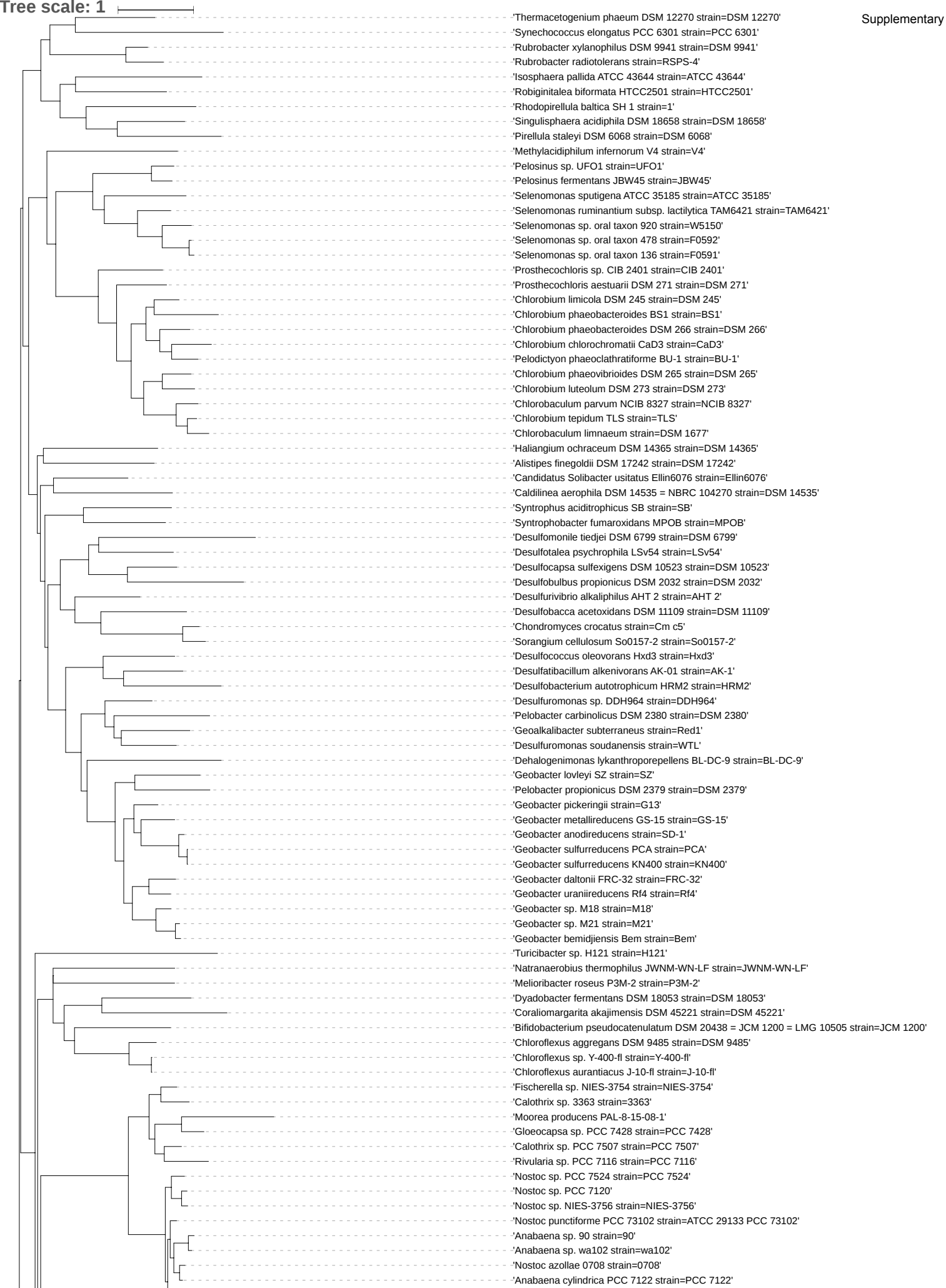
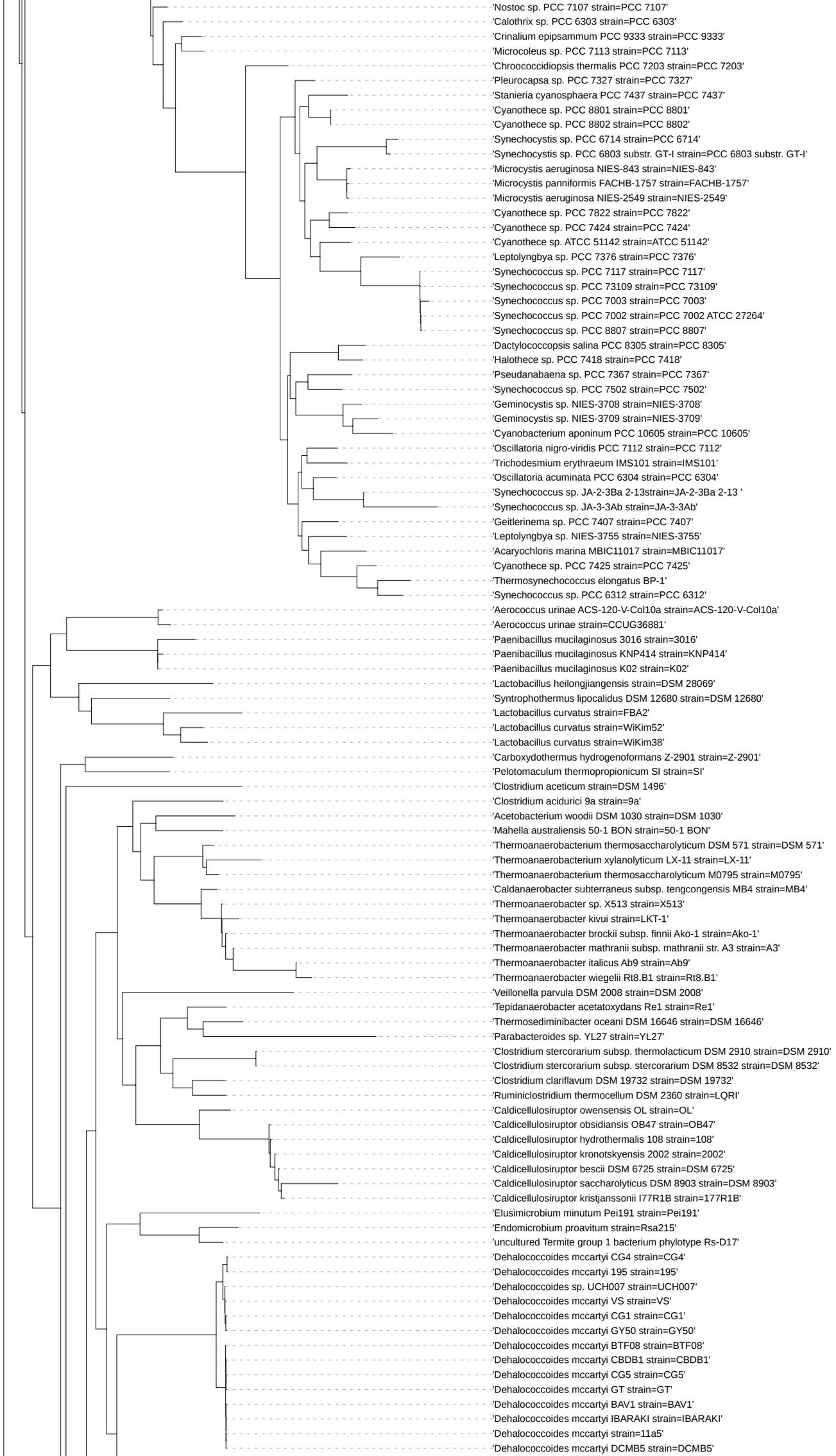
Supplementary Figure S4

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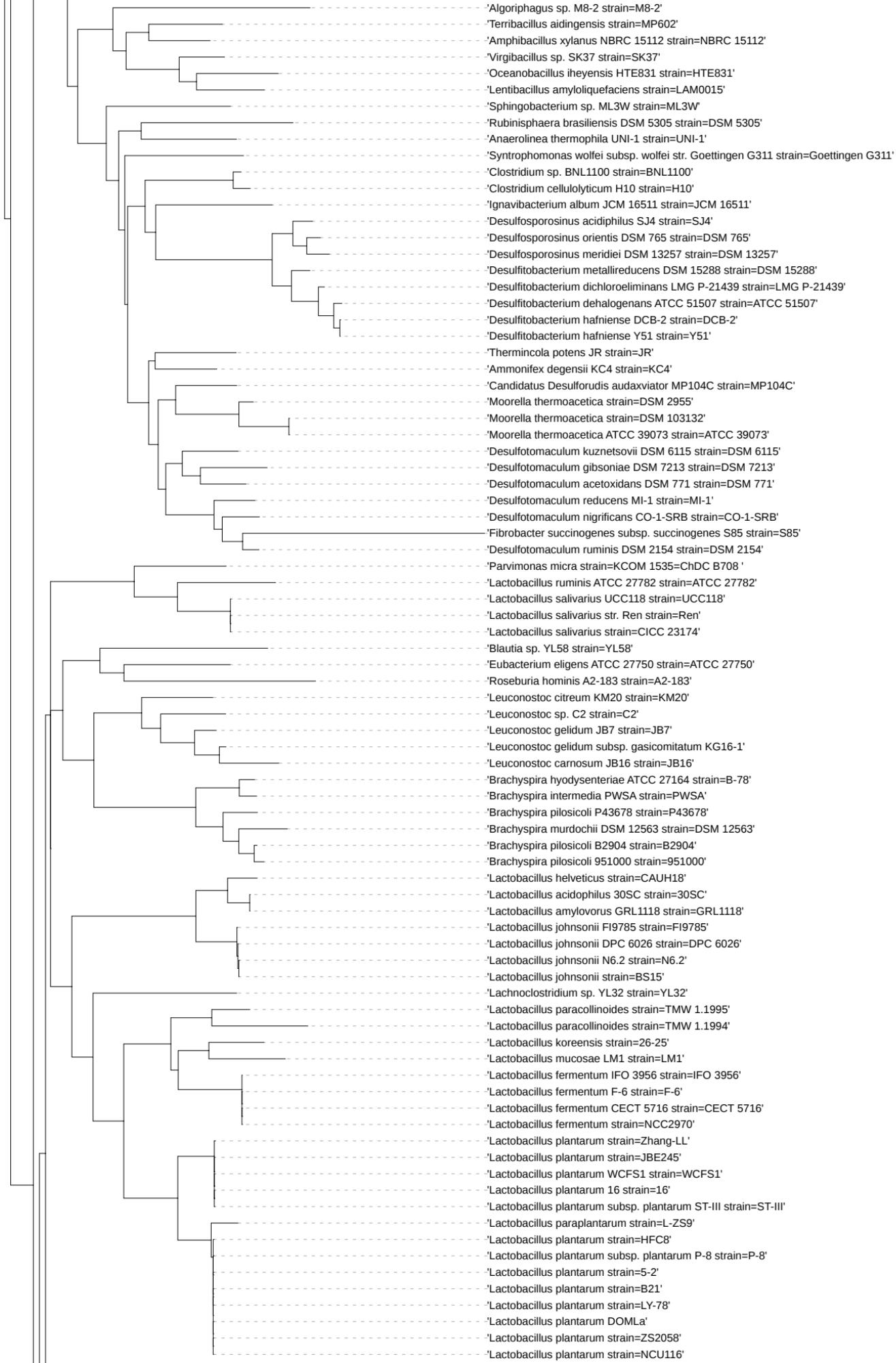
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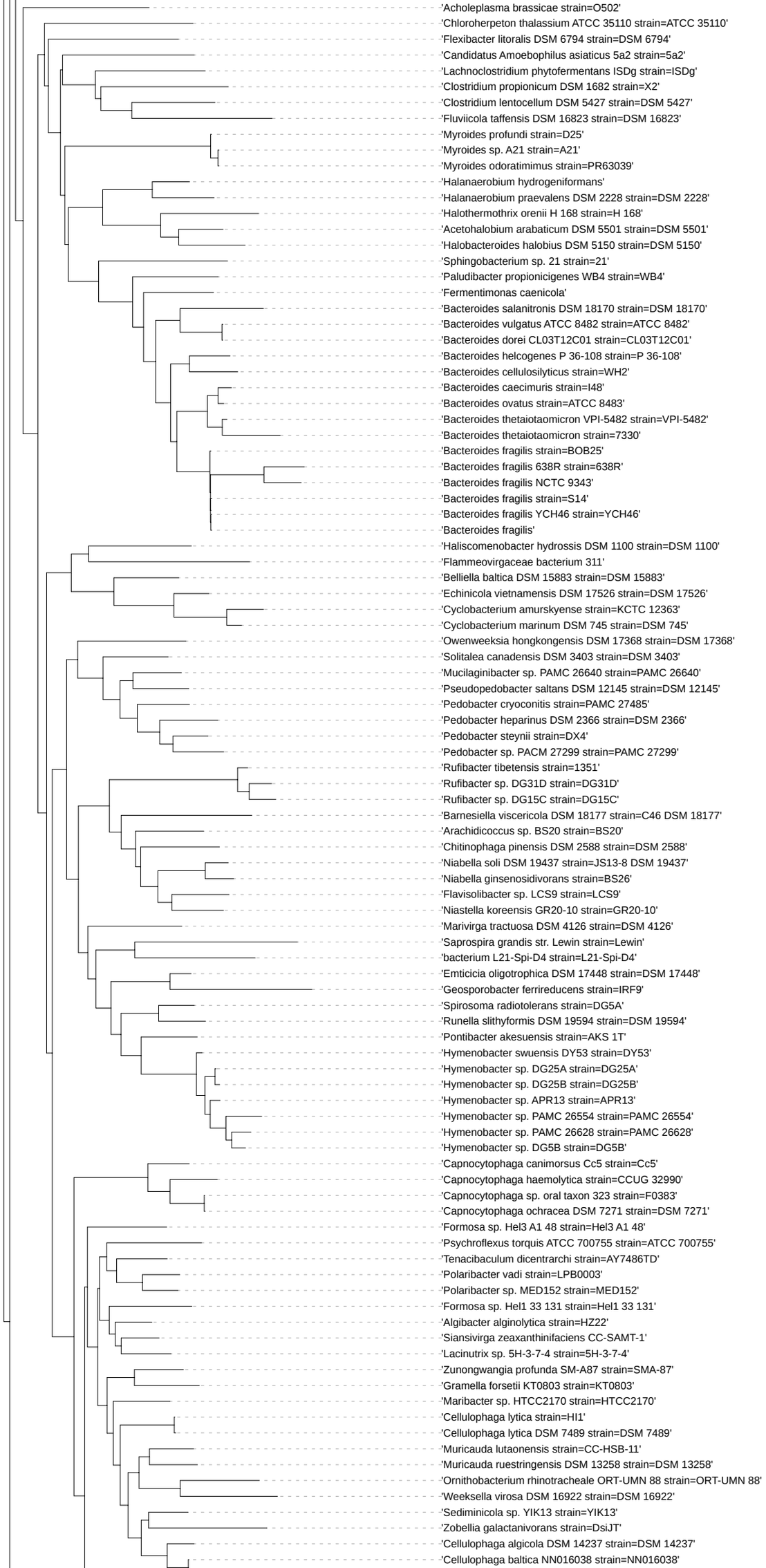
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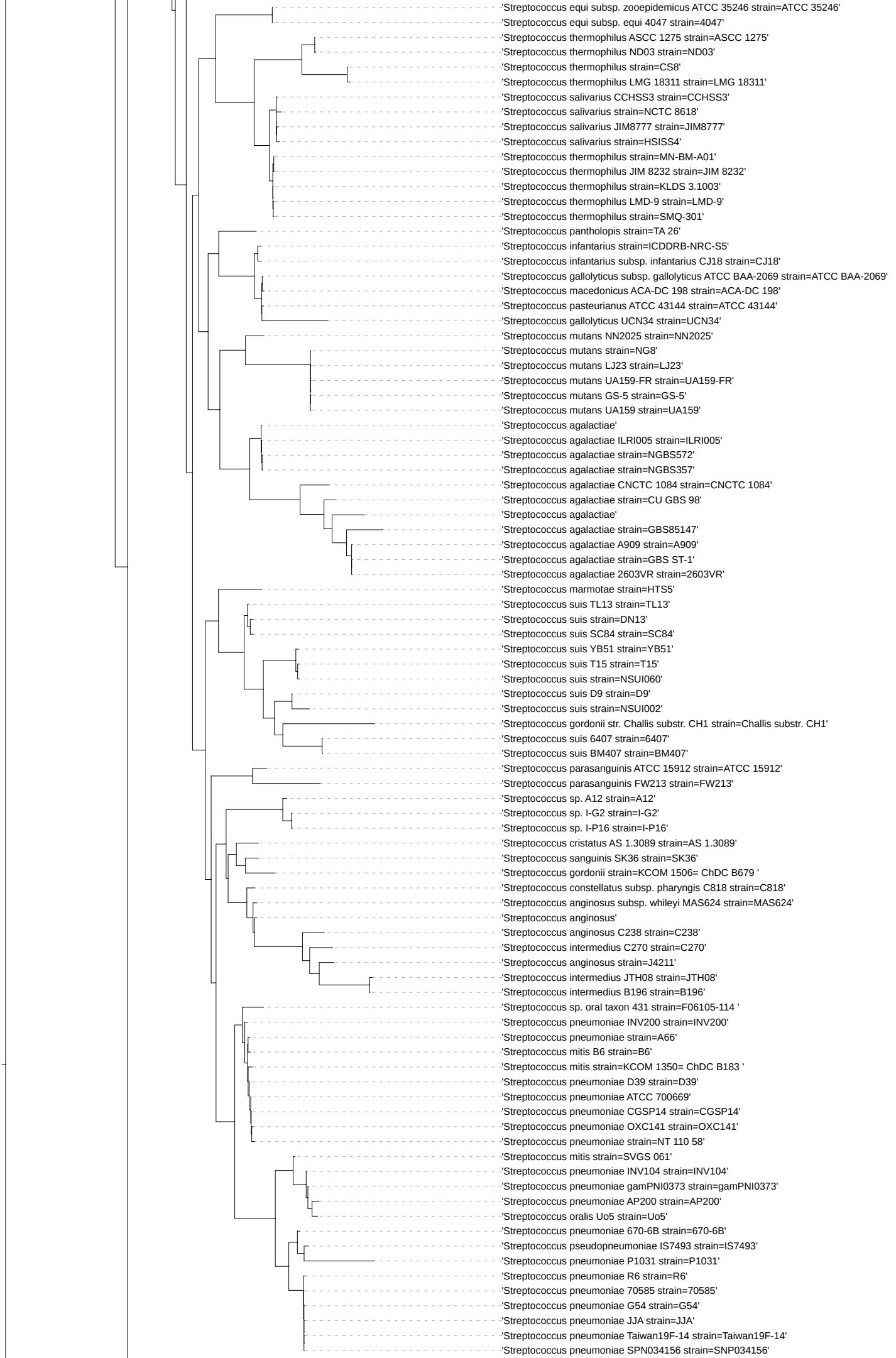
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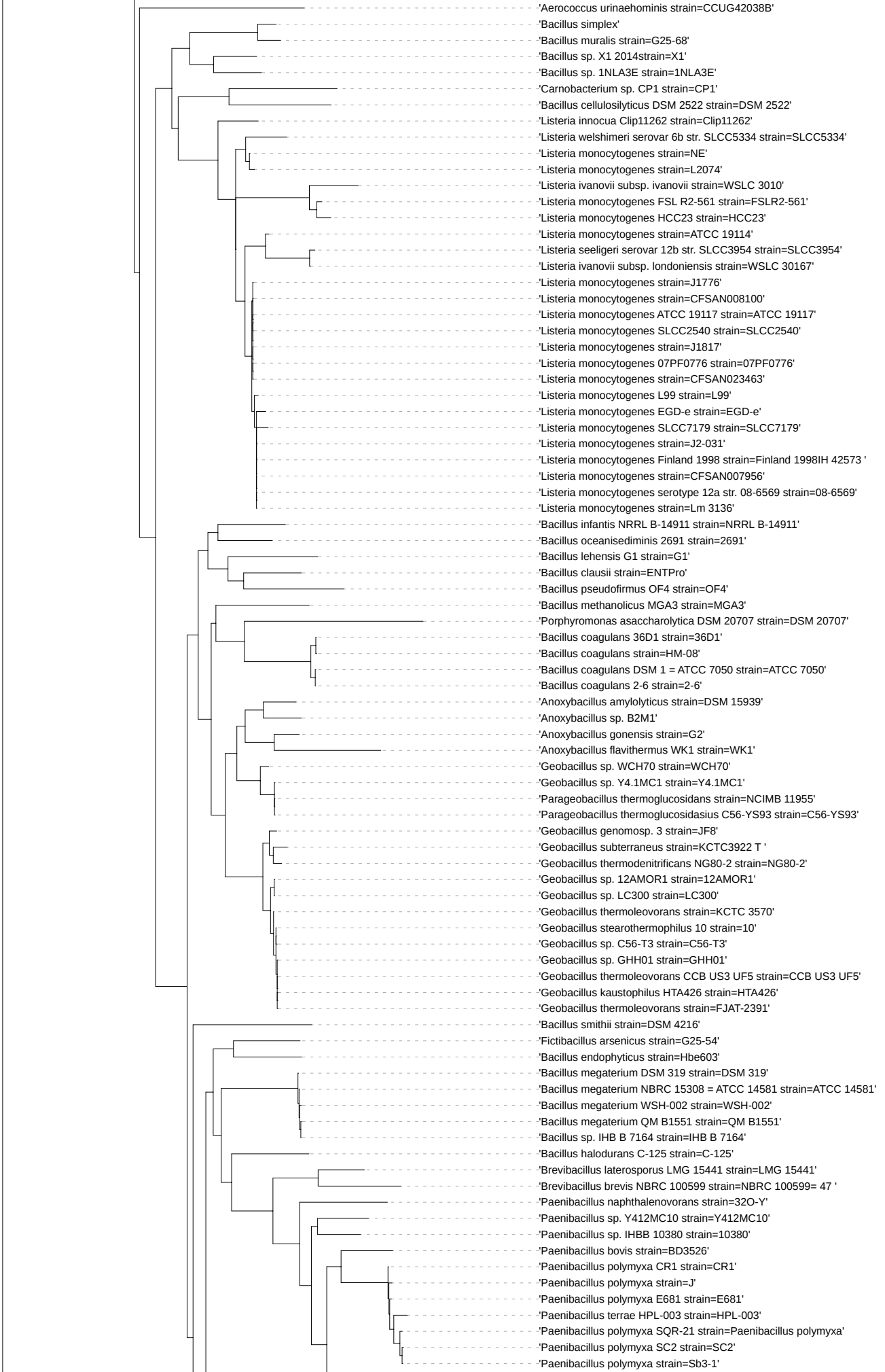
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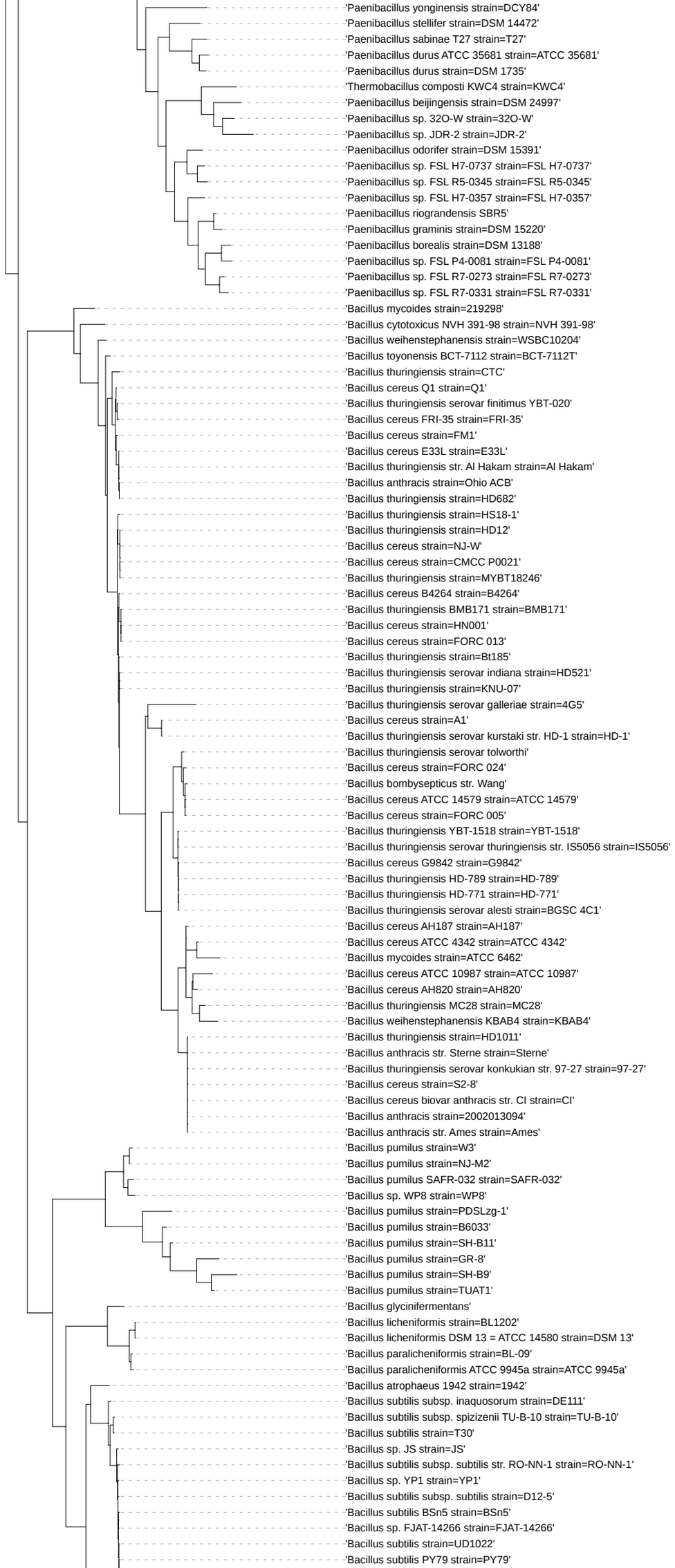
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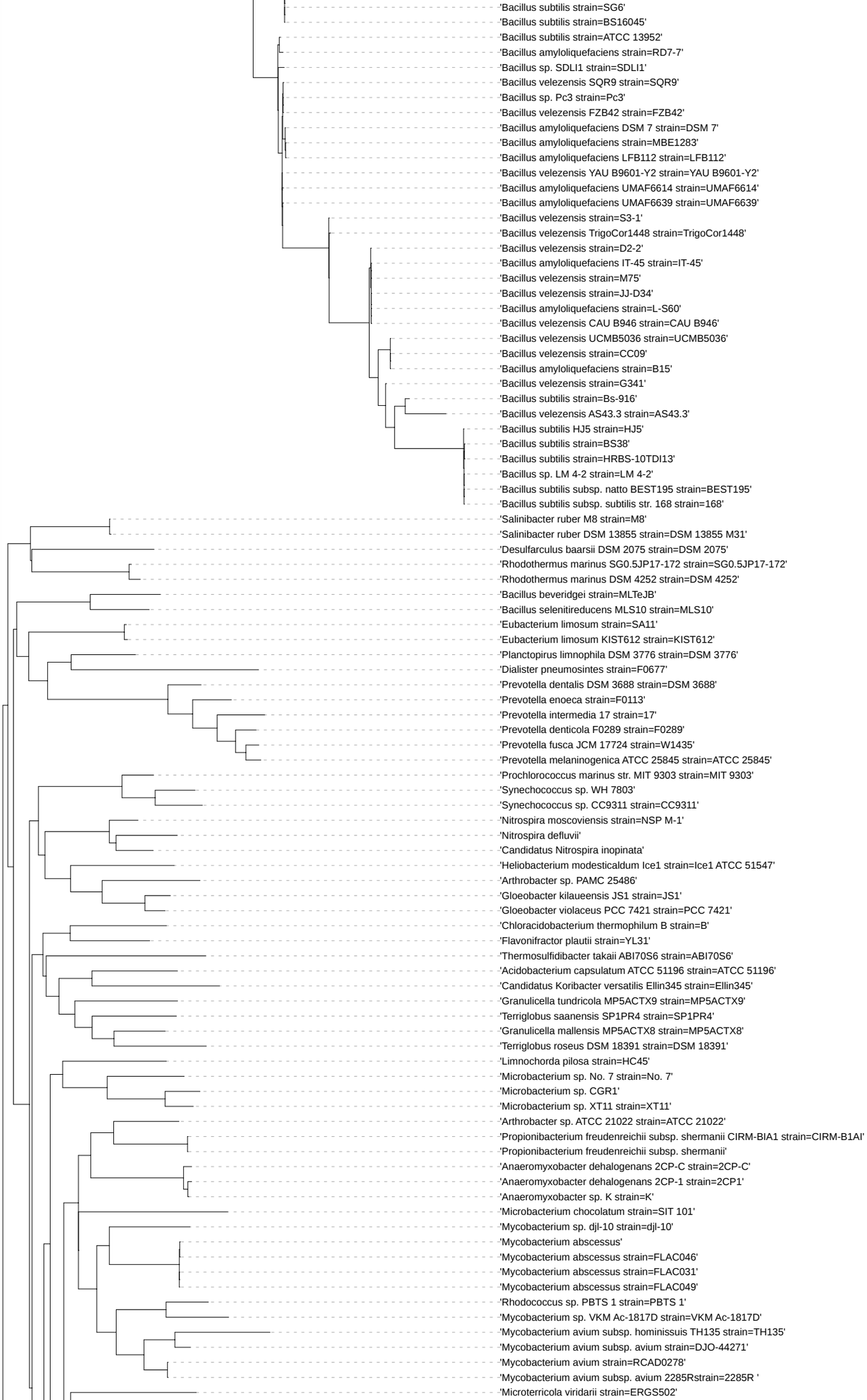
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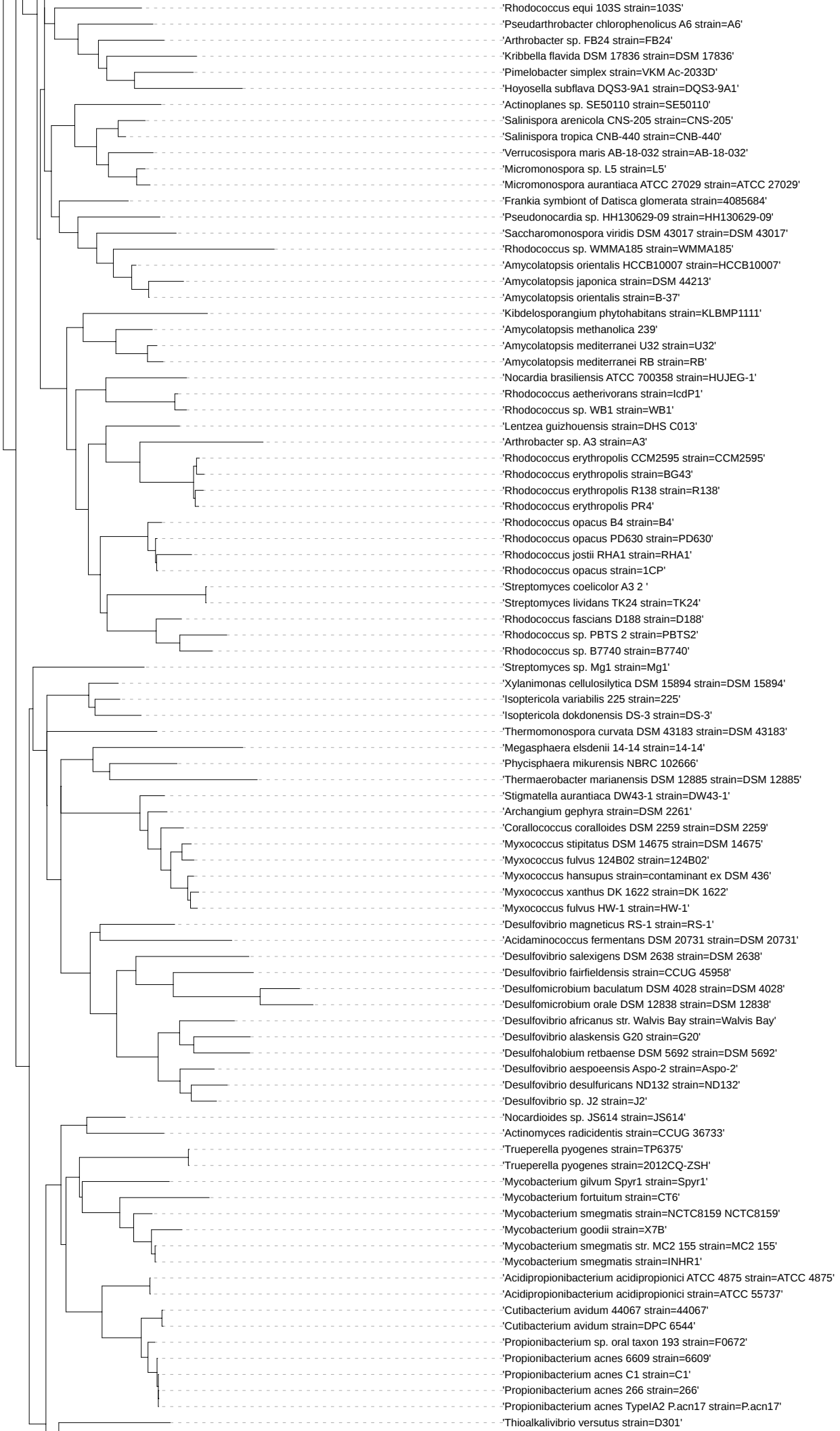
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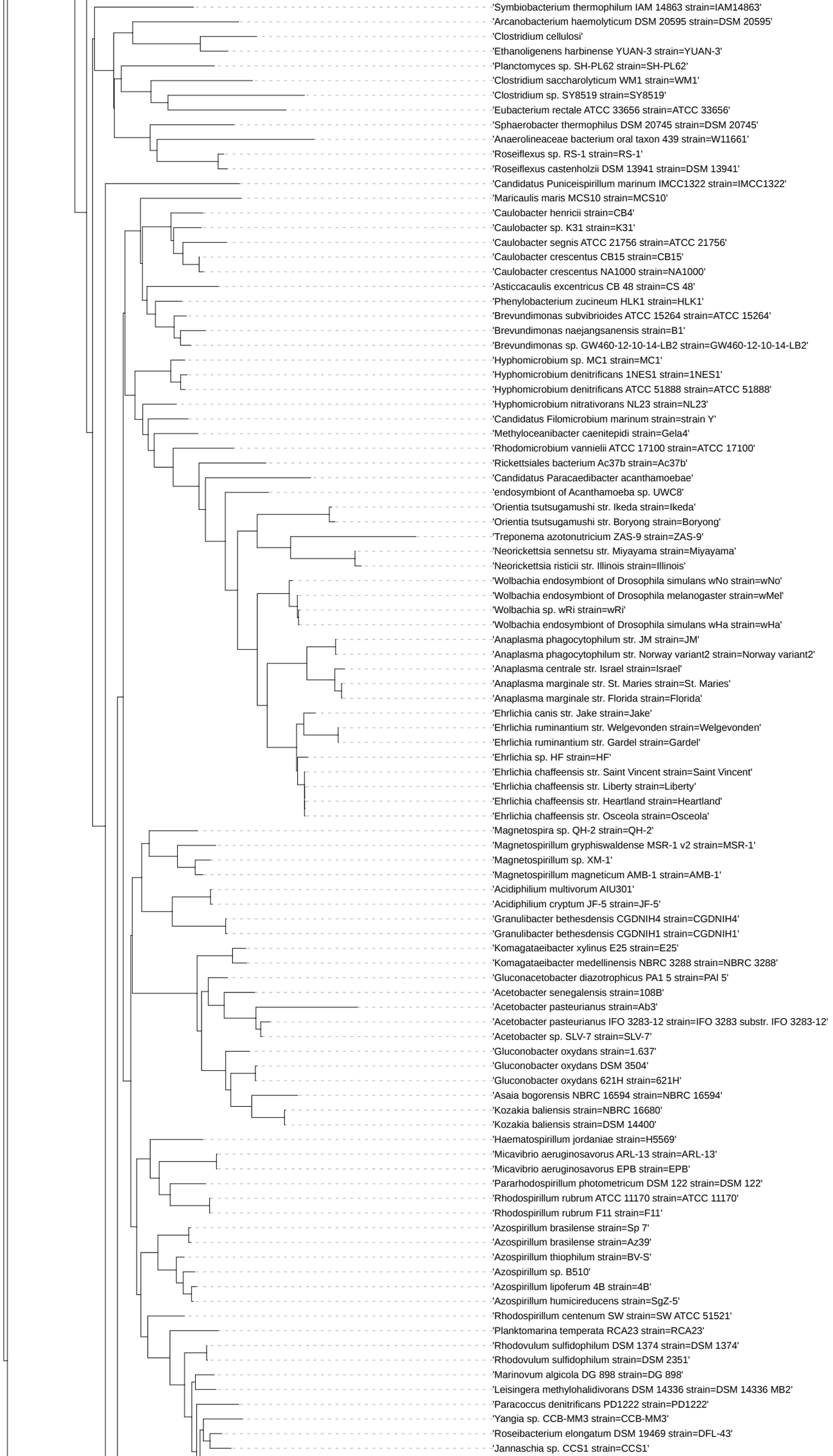
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'Arcanobacterium haemolyticum DSM 20595 strain=DSM 20595'
'Clostridium cellulosi'
'Ethanoligenens harbinense YUAN-3 strain=YUAN-3'
'Planctomyces sp. SH-PL62 strain=SH-PL62'
'Clostridium saccharolyticum WM1 strain=WM1'
'Clostridium sp. SY8519 strain=SY8519'
'Eubacterium rectale ATCC 33656 strain=ATCC 33656'
'Sphaerobacter thermophilus DSM 20745 strain=DSM 20745'
'Anaerolineaceae bacterium oral taxon 439 strain=W11661'
'Roseiflexus sp. RS-1 strain=RS-1'
'Roseiflexus castenholzii DSM 13941 strain=DSM 13941'
'Candidatus Puniceispirillum marinum IMCC1322 strain=IMCC1322'
'Maricaulis maris MCS10 strain=MCS10'
'Caulobacter henricii strain=CB4'
'Caulobacter sp. K31 strain=K31'
'Caulobacter segnis ATCC 21756 strain=ATCC 21756'
'Caulobacter crescentus CB15 strain=CB15'
'Caulobacter crescentus NA1000 strain=NA1000'
'Asticcacaulis excentricus CB 48 strain=CS 48'
'Phenylobacterium zucineum HLK1 strain=HLK1'
'Brevundimonas subvibrioides ATCC 15264 strain=ATCC 15264'
'Brevundimonas naejangsanensis strain=B1'
'Brevundimonas sp. GW460-12-10-14-LB2 strain=GW460-12-10-14-LB2'
'Hyphomicrobium sp. MC1 strain=MC1'
'Hyphomicrobium denitrificans 1NES1 strain=1NES1'
'Hyphomicrobium denitrificans ATCC 51888 strain=ATCC 51888'
'Hyphomicrobium nitrativorans NL23 strain=NL23'
'Candidatus Filomicrobium marinum strain=strain Y'
'Methyloceanibacter caenitepidi strain=Gela4'
'Rhodomicrobium vannielii ATCC 17100 strain=ATCC 17100'
'Rickettsiales bacterium Ac37b strain=Ac37b'
'Candidatus Paracaedibacter acanthamoebae'
'endosymbiont of Acanthamoeba sp. UWC8'
'Orientia tsutsugamushi str. Ikeda strain=Ikeda'
'Orientia tsutsugamushi str. Boryong strain=Boryong'
'Treponema azotonutricium ZAS-9 strain=ZAS-9'
'Neorickettsia sennetsu str. Miyayama strain=Miyayama'
'Neorickettsia risticii str. Illinois strain=Illinois'
'Wolbachia endosymbiont of Drosophila simulans wNo strain=wNo'
'Wolbachia endosymbiont of Drosophila melanogaster strain=wMel'
'Wolbachia sp. wRi strain=wRi'
'Wolbachia endosymbiont of Drosophila simulans wHa strain=wHa'
'Anaplasma phagocytophilum str. JM strain=JM'
'Anaplasma phagocytophilum str. Norway variant2 strain=Norway variant2'
'Anaplasma centrale str. Israel strain=Israel'
'Anaplasma marginale str. St. Maries strain=St. Maries'
'Anaplasma marginale str. Florida strain=Florida'
'Ehrlichia canis str. Jake strain=Jake'
'Ehrlichia ruminantium str. Welgevonden strain=Welgevonden'
'Ehrlichia ruminantium str. Gardel strain=Gardel'
'Ehrlichia sp. HF strain=HF'
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'Magnetospira sp. QH-2 strain=QH-2'
'Magnetospirillum gryphiswaldense MSR-1 v2 strain=MSR-1'
'Magnetospirillum sp. XM-1'
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'Acidiphilium multivorum AIU301'
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'Granulibacter bethesdensis CGDNIH1 strain=CGDNIH1'
'Komagataeibacter xylinus E25 strain=E25'
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'Acetobacter senegalensis strain=108B'
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'Gluconobacter oxydans 621H strain=621H'
'Asaia bogorensis NBRC 16594 strain=NBRC 16594'
'Kozakia baliensis strain=NBRC 16680'
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'Haematospirillum jordaniae strain=H5569'
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'Micavibrio aeruginosavorus EPB strain=EPB'
'Pararhodospirillum photometricum DSM 122 strain=DSM 122'
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'Rhodospirillum rubrum F11 strain=F11'
'Azospirillum brasilense strain=Sp 7'
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'Azospirillum thiophilum strain=BV-S'
'Azospirillum sp. B510'
'Azospirillum lipoferum 4B strain=4B'
'Azospirillum humicireducens strain=SgZ-5'
'Rhodospirillum centenum SW strain=SW ATCC 51521'
'Planktomarina temperata RCA23 strain=RCA23'
'Rhodovulum sulfidophilum DSM 1374 strain=DSM 1374'
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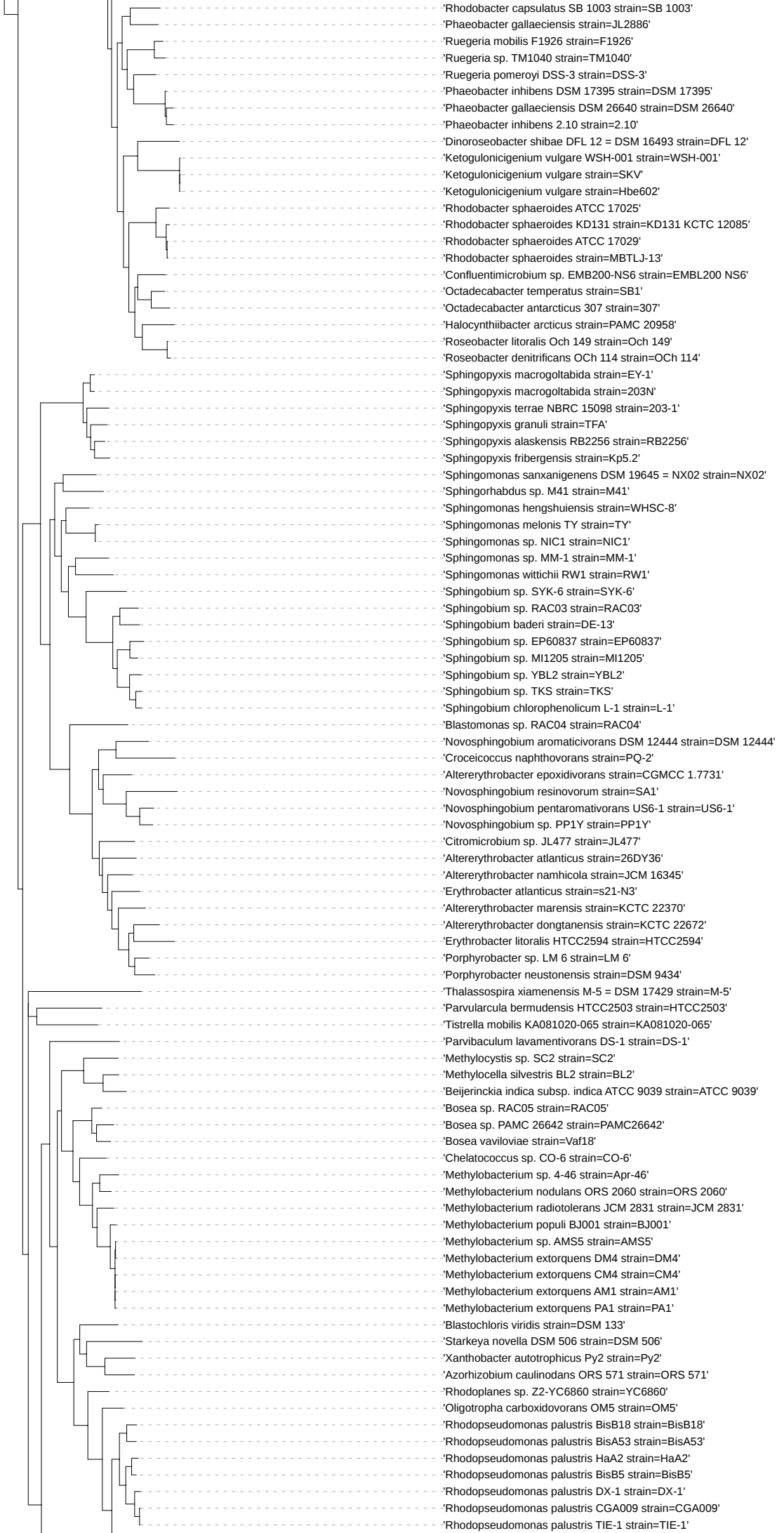
'Marinovum algicola DG 898 strain=DG 898'
'Leisingera methylohalidivorans DSM 14336 strain=DSM 14336 MB2'
'Paracoccus denitrificans PD1222 strain=PD1222'
'Yangia sp. CCB-MM3 strain=CCB-MM3'
'Roseibacterium elongatum DSM 19469 strain=DFL-43'
'Jannaschia sp. CCS1 strain=CCS1'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'Rhodobacter sphaeroides ATCC 17025'
'Rhodobacter sphaeroides KD131 strain=KD131 KCTC 12085'
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'Confluentimicrobium sp. EMB200-NS6 strain=EMBL200 NS6'
'Octadecabacter temperatus strain=SB1'
'Octadecabacter antarcticus 307 strain=307'
'Halocynthiibacter arcticus strain=PAMC 20958'
'Roseobacter litoralis Och 149 strain=Och 149'
'Roseobacter denitrificans OCh 114 strain=OCh 114'
'Sphingopyxis macrogoltabida strain=EY-1'
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'Sphingopyxis terrae NBRC 15098 strain=203-1'
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'Sphingopyxis alaskensis RB2256 strain=RB2256'
'Sphingopyxis fribergensis strain=Kp5.2'
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'Sphingorhabdus sp. M41 strain=M41'
'Sphingomonas hengshuiensis strain=WHSC-8'
'Sphingomonas melonis TY strain=TY'
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'Porphyrobacter sp. LM 6 strain=LM 6'
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'Thalassospira xiamenensis M-5 = DSM 17429 strain=M-5'
'Parvularcula bermudensis HTCC2503 strain=HTCC2503'
'Tistrella mobilis KA081020-065 strain=KA081020-065'
'Parvibaculum lavamentivorans DS-1 strain=DS-1'
'Methylocystis sp. SC2 strain=SC2'
'Methylocella silvestris BL2 strain=BL2'
'Beijerinckia indica subsp. indica ATCC 9039 strain=ATCC 9039'
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'Bosea sp. PAMC 26642 strain=PAMC26642'
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'Chelatococcus sp. CO-6 strain=CO-6'
'Methylobacterium sp. 4-46 strain=Apr-46'
'Methylobacterium nodulans ORS 2060 strain=ORS 2060'
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'Oligotropha carboxidovorans OM5 strain=OM5'
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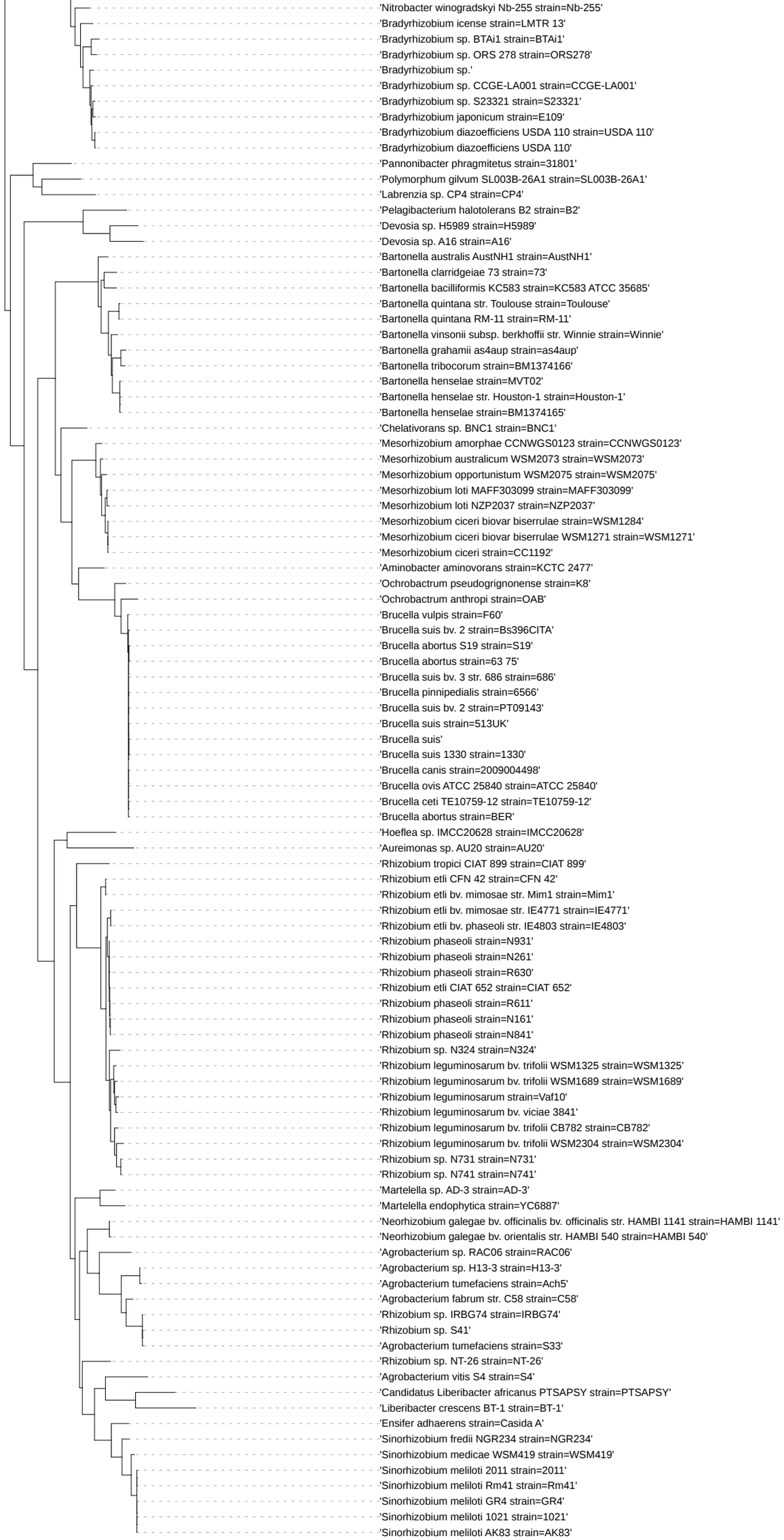
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'Polymorphum gilvum SL003B-26A1 strain=SL003B-26A1'
'Labrenzia sp. CP4 strain=CP4'
'Pelagibacterium halotolerans B2 strain=B2'
'Devosia sp. H5989 strain=H5989'
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'Bartonella australis AustNH1 strain=AustNH1'
'Bartonella clarridgeiae 73 strain=73'
'Bartonella bacilliformis KC583 strain=KC583 ATCC 35685'
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'Bartonella tribocorum strain=BM1374166'
'Bartonella henselae strain=MVT02'
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'Neorhizobium galegae bv. officinalis bv. officinalis str. HAMBI 1141 strain=HAMBI 1141'
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'Ensifer adhaerens strain=Casida A'
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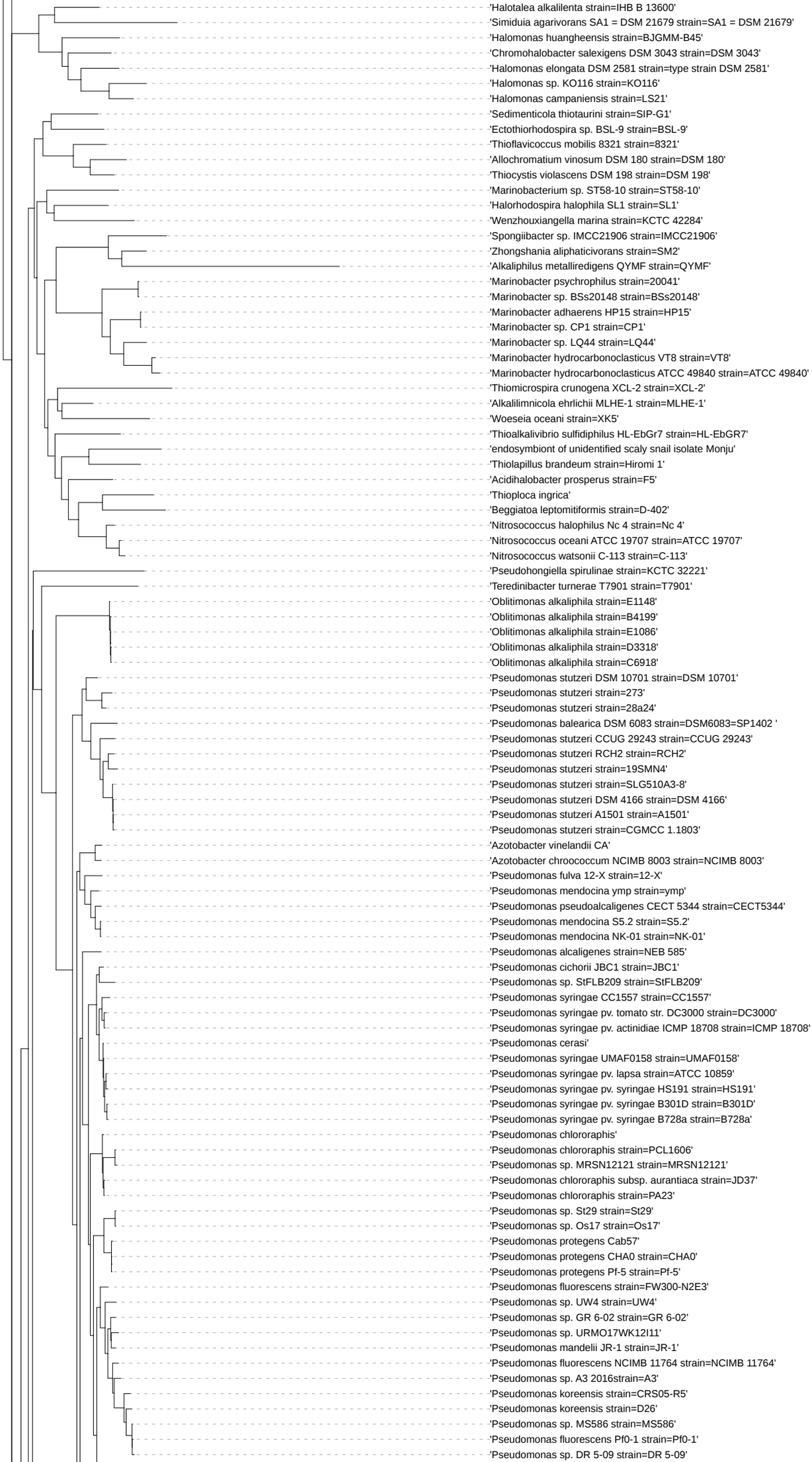
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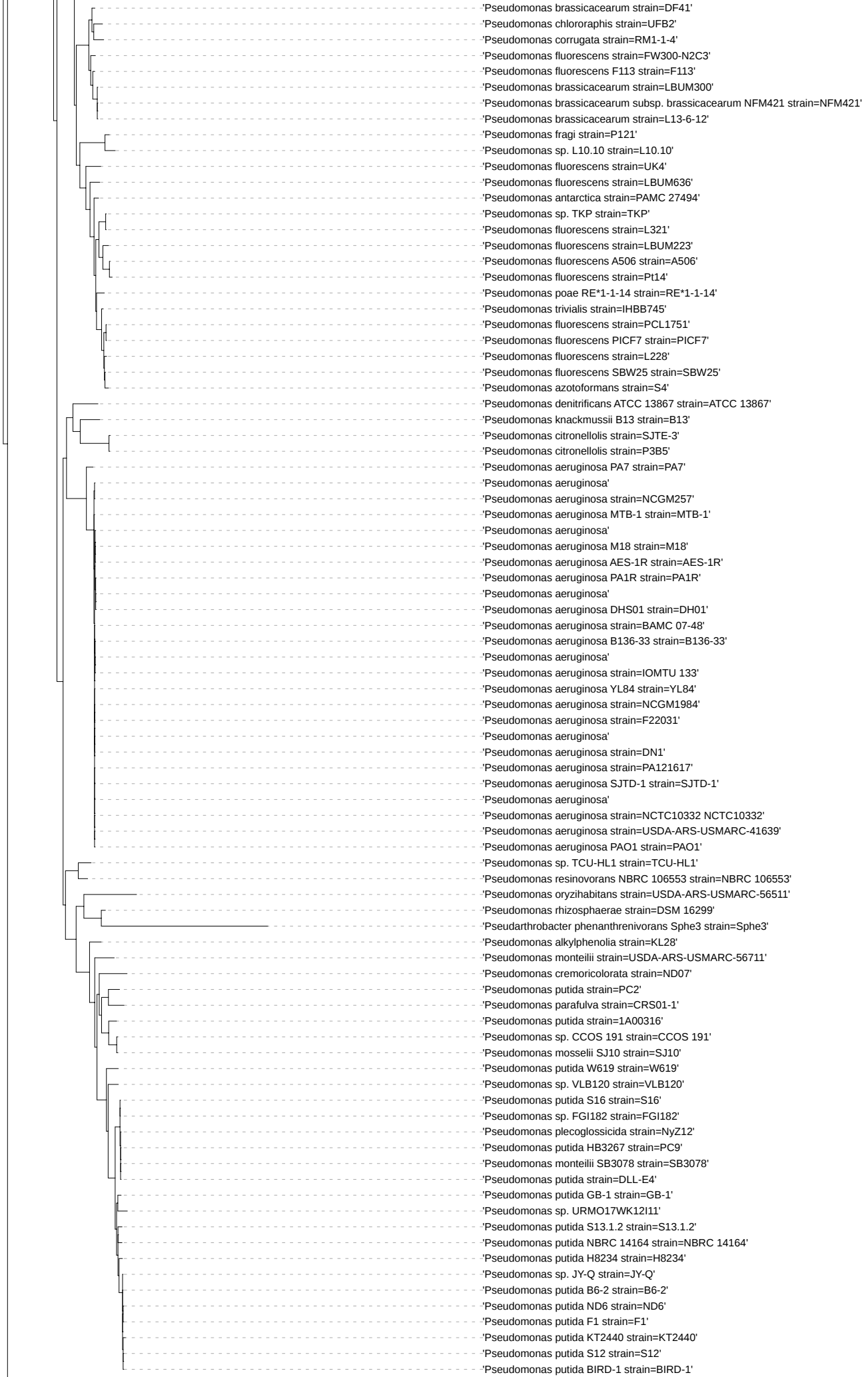
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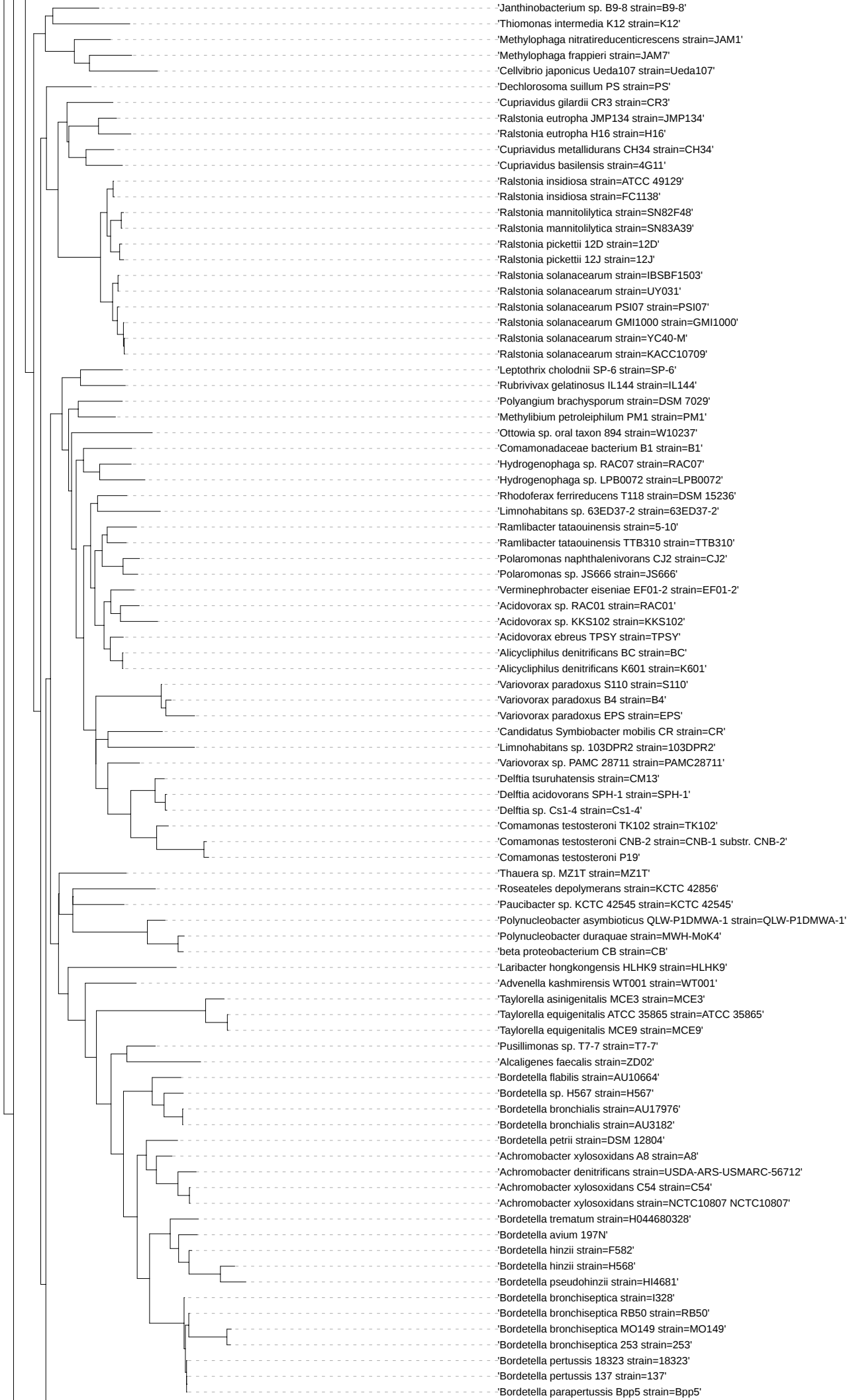
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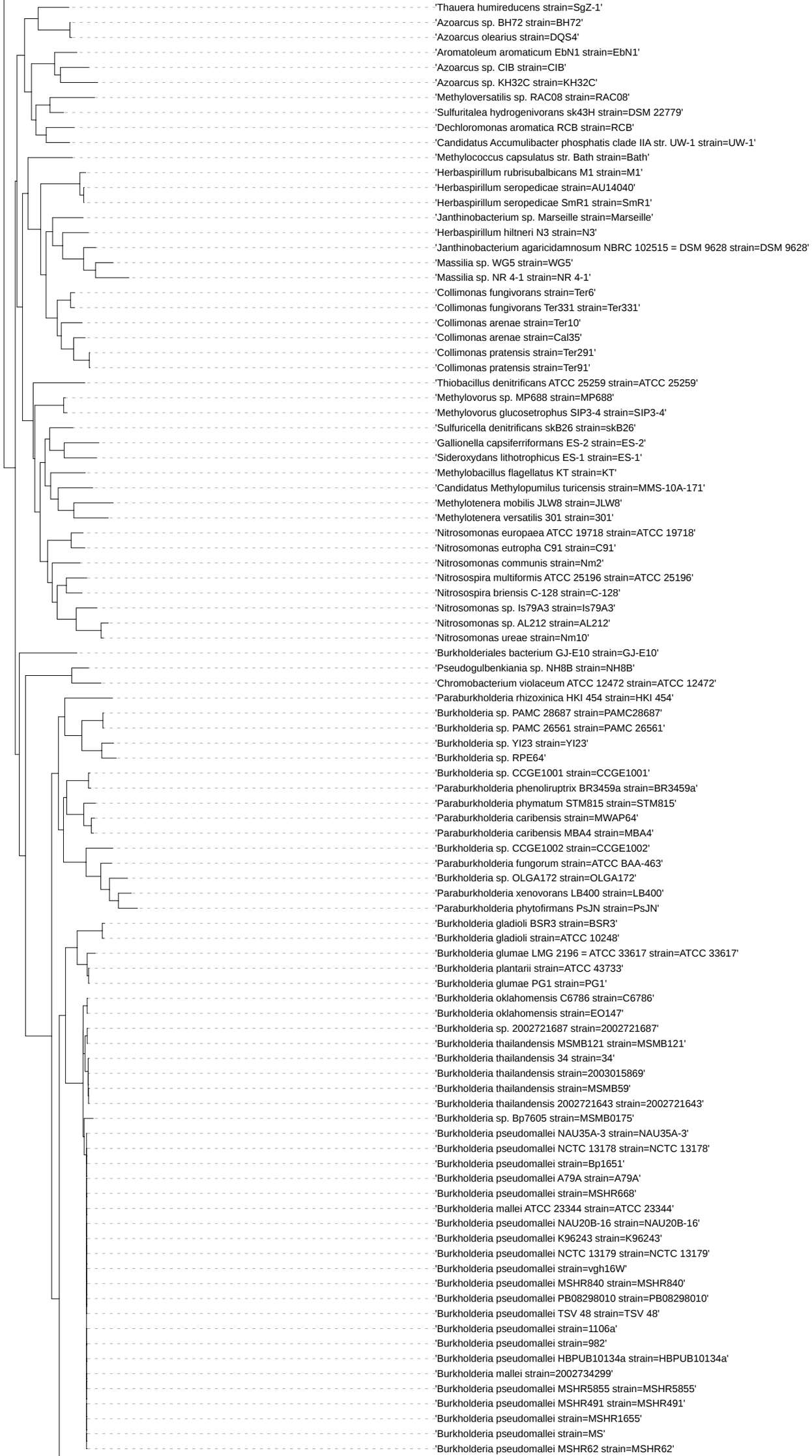
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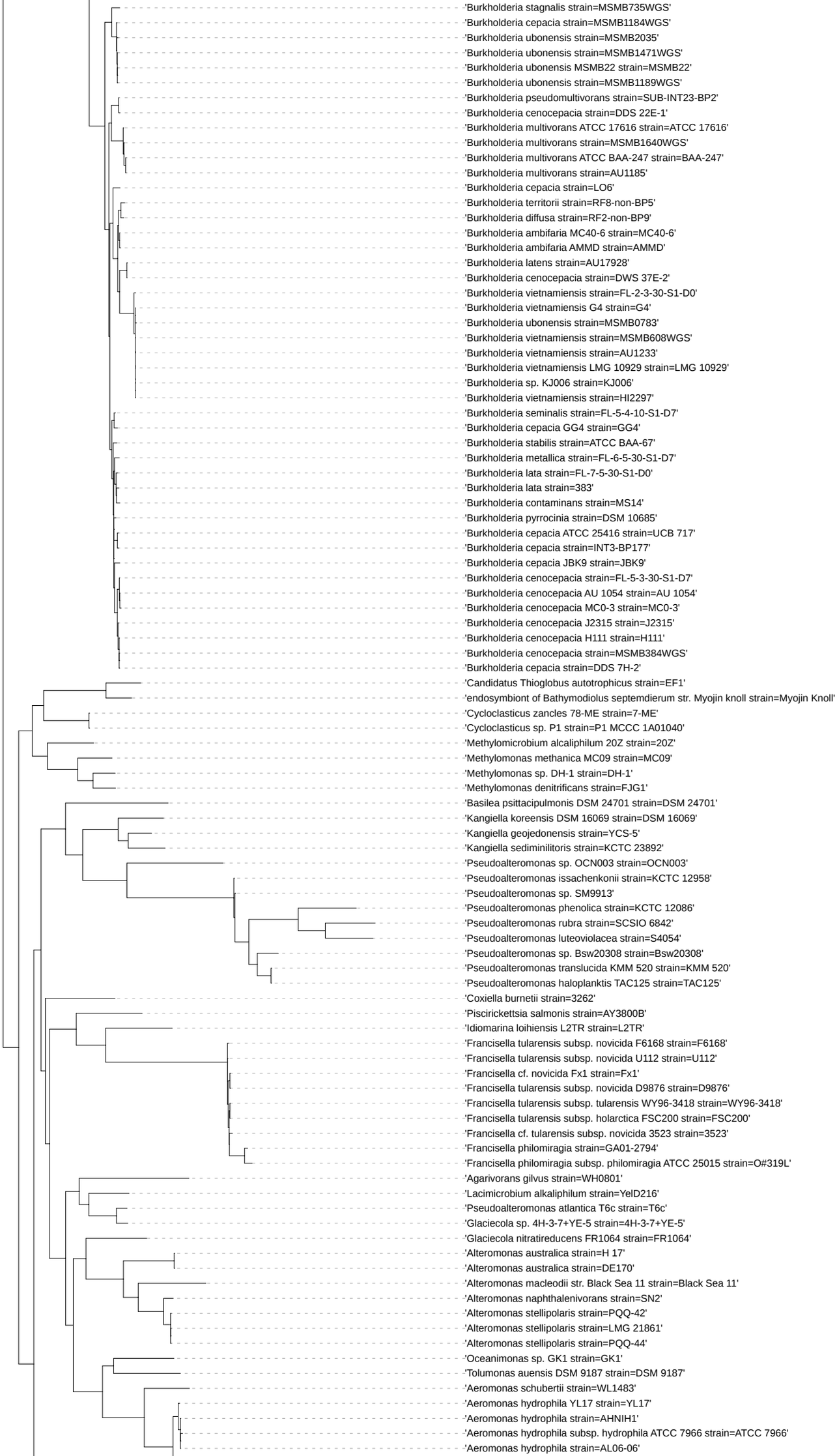
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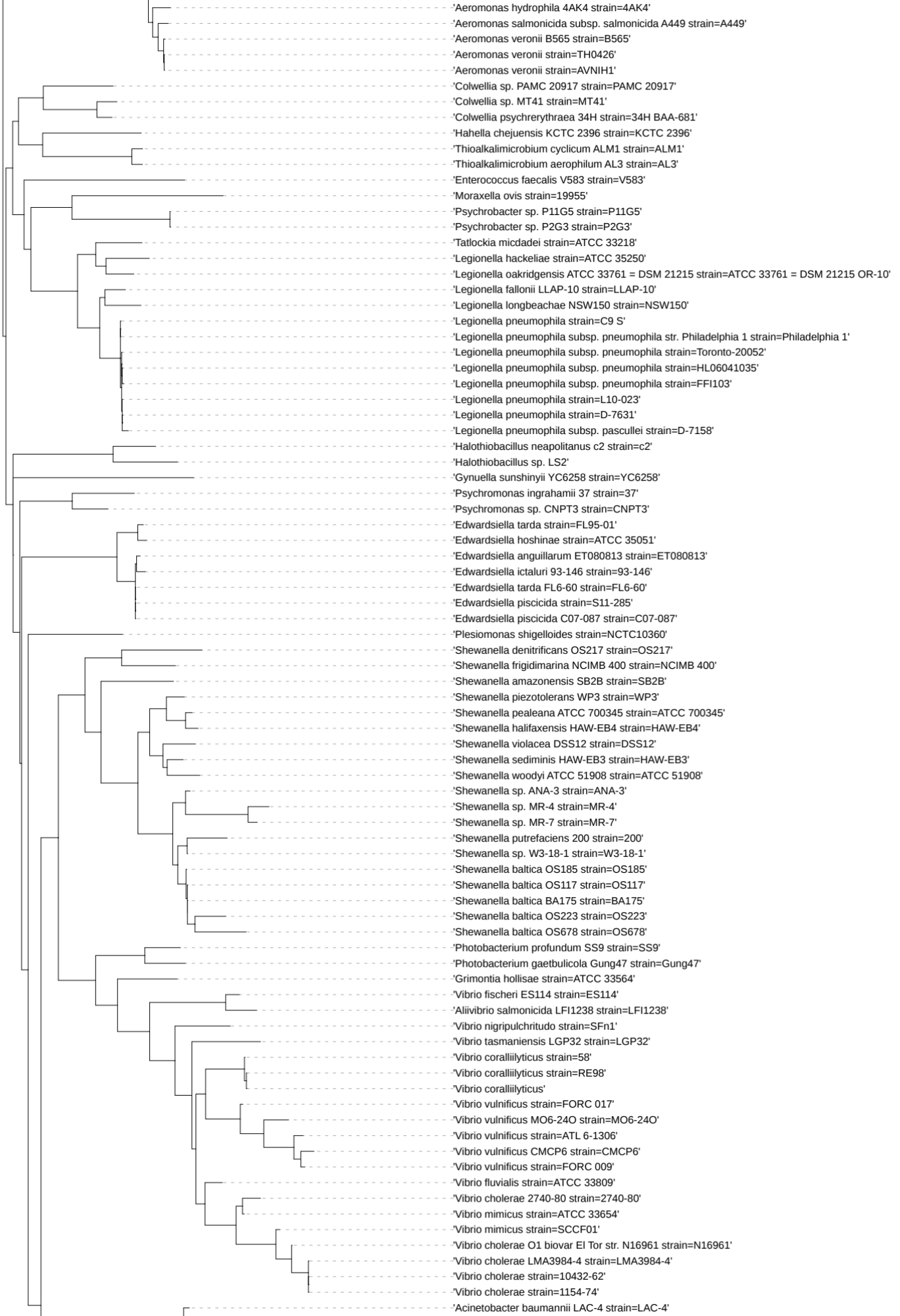
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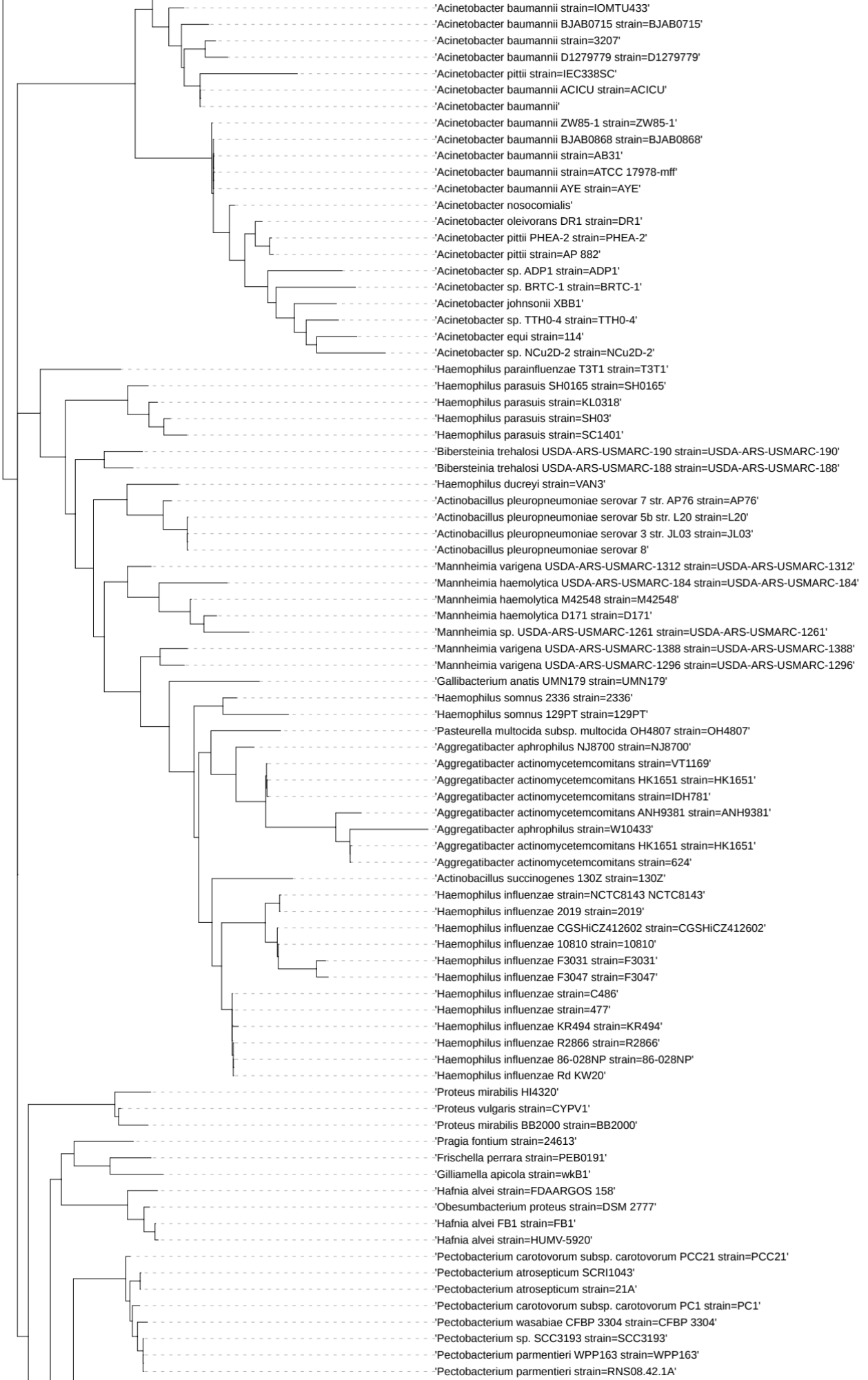
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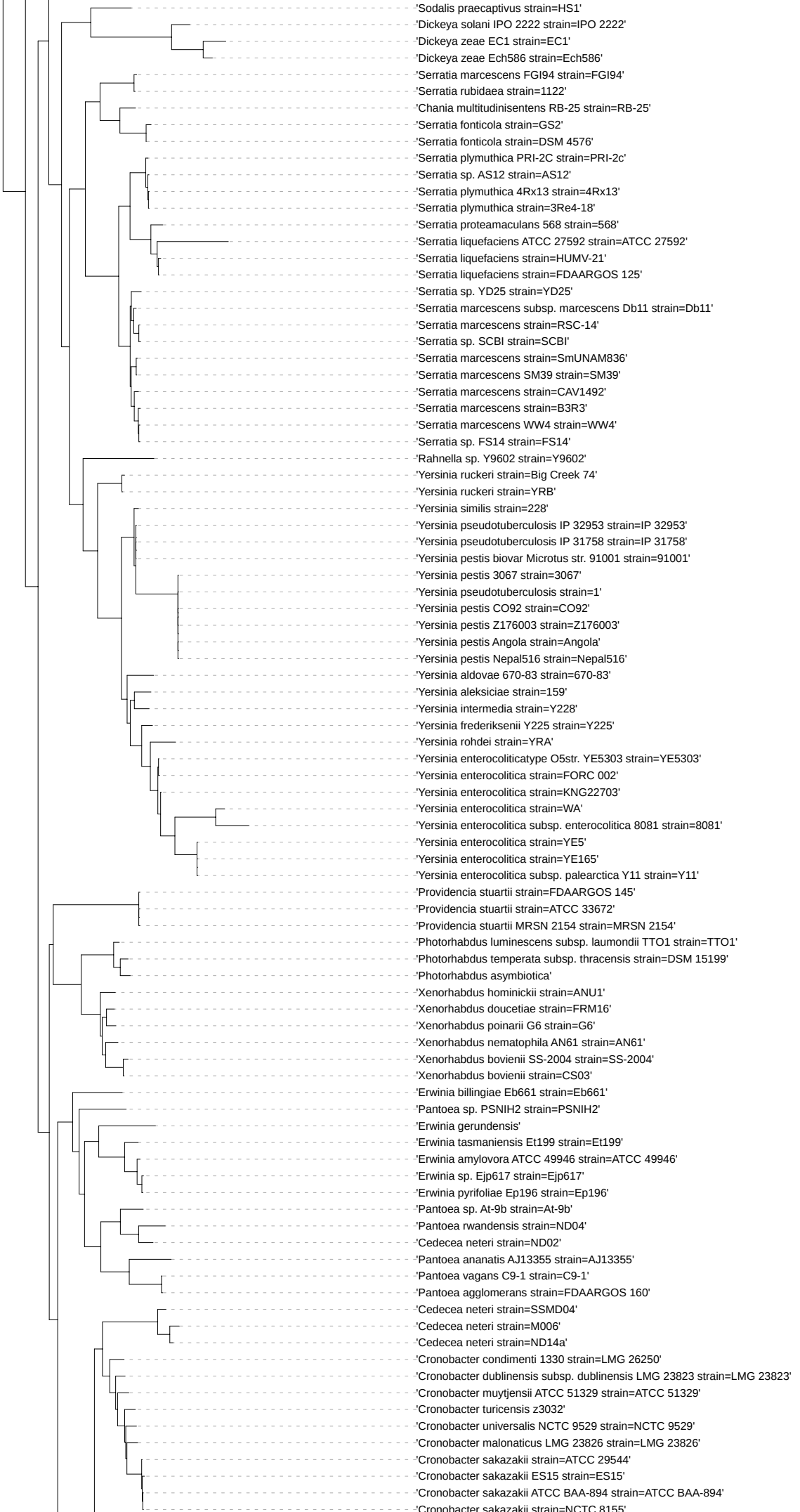
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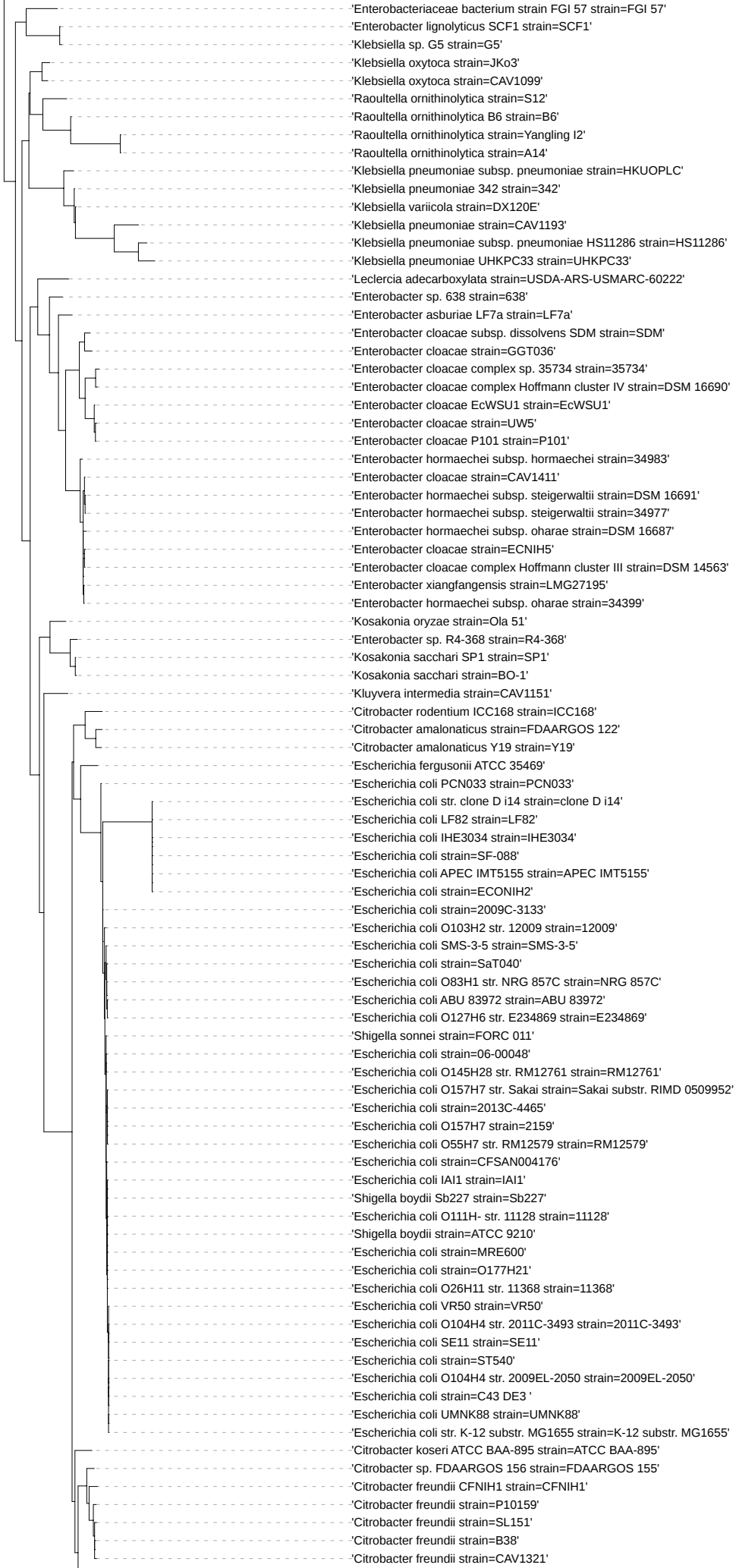
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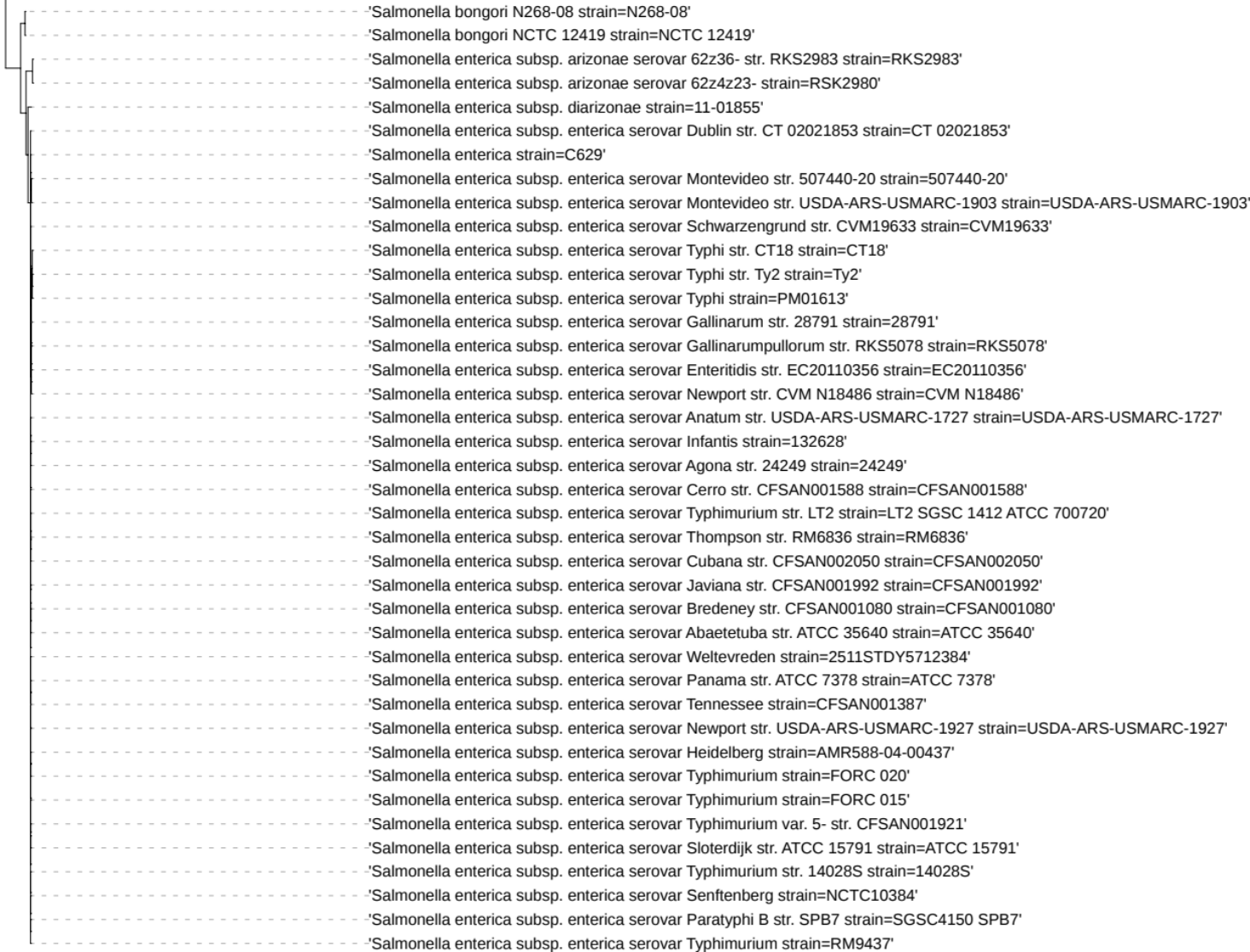
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'Salmonella enterica subsp. enterica serovar Gallinarumpullorum str. RKS5078 strain=RKS5078'
'Salmonella enterica subsp. enterica serovar Enteritidis str. EC20110356 strain=EC20110356'
'Salmonella enterica subsp. enterica serovar Newport str. CVM N18486 strain=CVM N18486'
'Salmonella enterica subsp. enterica serovar Anatum str. USDA-ARS-USMARC-1727 strain=USDA-ARS-USMARC-1727'
'Salmonella enterica subsp. enterica serovar Infantis strain=132628'
'Salmonella enterica subsp. enterica serovar Agona str. 24249 strain=24249'
'Salmonella enterica subsp. enterica serovar Cerro str. CFSAN001588 strain=CFSAN001588'
'Salmonella enterica subsp. enterica serovar Typhimurium str. LT2 strain=LT2 SGSC 1412 ATCC 700720'
'Salmonella enterica subsp. enterica serovar Thompson str. RM6836 strain=RM6836'
'Salmonella enterica subsp. enterica serovar Cubana str. CFSAN002050 strain=CFSAN002050'
'Salmonella enterica subsp. enterica serovar Javiana str. CFSAN001992 strain=CFSAN001992'
'Salmonella enterica subsp. enterica serovar Bredeney str. CFSAN001080 strain=CFSAN001080'
'Salmonella enterica subsp. enterica serovar Abaetetuba str. ATCC 35640 strain=ATCC 35640'
'Salmonella enterica subsp. enterica serovar Weltevreden strain=2511STDY5712384'
'Salmonella enterica subsp. enterica serovar Panama str. ATCC 7378 strain=ATCC 7378'
'Salmonella enterica subsp. enterica serovar Tennessee strain=CFSAN001387'
'Salmonella enterica subsp. enterica serovar Newport str. USDA-ARS-USMARC-1927 strain=USDA-ARS-USMARC-1927'
'Salmonella enterica subsp. enterica serovar Heidelberg strain=AMR588-04-00437'
'Salmonella enterica subsp. enterica serovar Typhimurium strain=FORC 020'
'Salmonella enterica subsp. enterica serovar Typhimurium strain=FORC 015'
'Salmonella enterica subsp. enterica serovar Typhimurium var. 5- str. CFSAN001921'
'Salmonella enterica subsp. enterica serovar Sloterdijk str. ATCC 15791 strain=ATCC 15791'
'Salmonella enterica subsp. enterica serovar Typhimurium str. 14028S strain=14028S'
'Salmonella enterica subsp. enterica serovar Senftenberg strain=NCTC10384'
'Salmonella enterica subsp. enterica serovar Paratyphi B str. SPB7 strain=SGSC4150 SPB7'
'Salmonella enterica subsp. enterica serovar Typhimurium strain=RM9437'