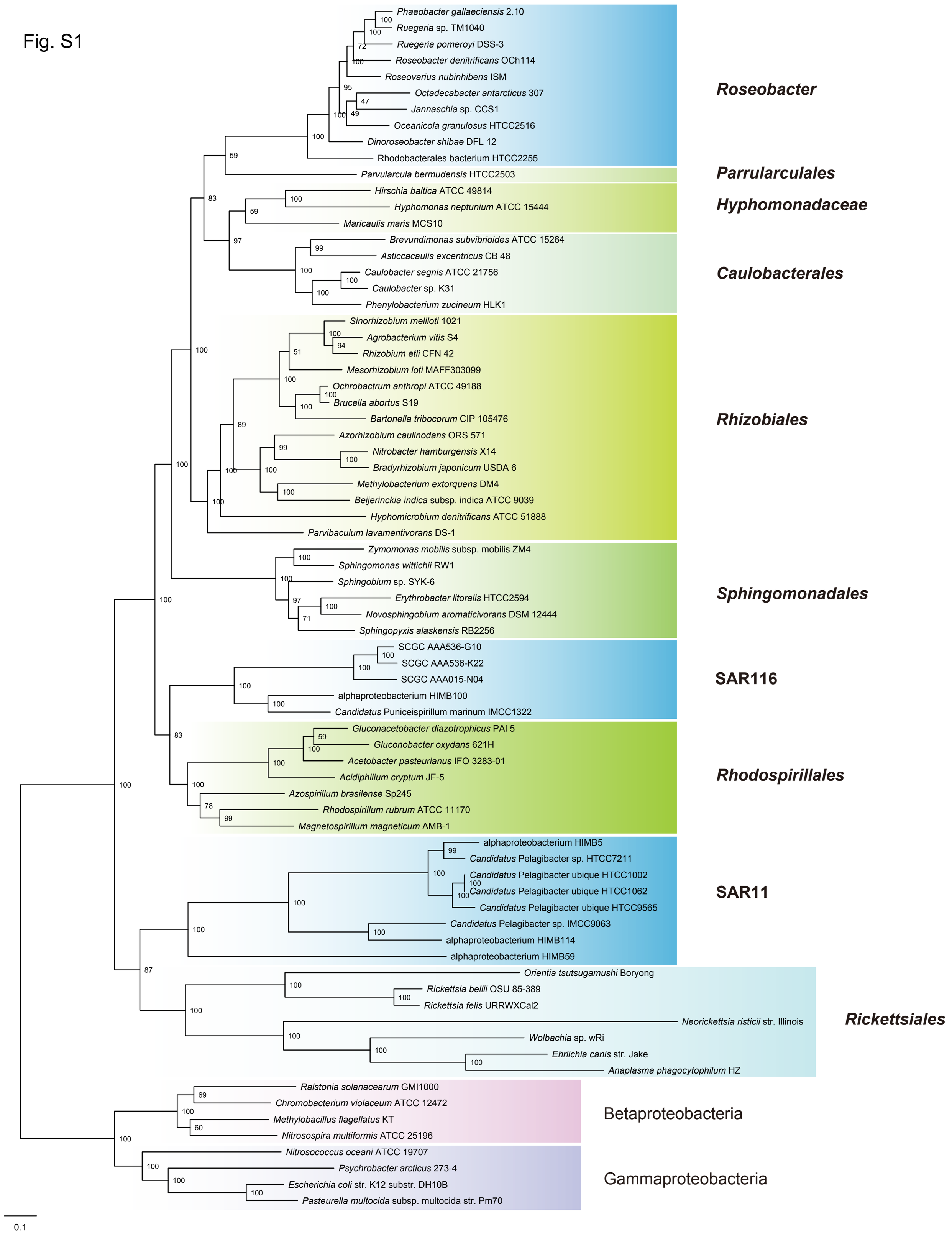
Fig. S1


Phaeobacter gallaeciensis 2.10
Ruegeria sp. TM1040
Ruegeria pomeroyi DSS-3
Roseobacter denitrificans OCh114
Roseovarius nubinhibens ISM
Octadecabacter antarcticus 307
Jannaschia sp. CCS1
Oceanicola granulosus HTCC2516
Dinoroseobacter shibae DFL 12
Rhodobacterales bacterium HTCC2255
Roseobacter
Parvularcula bermudensis HTCC2503
Parrularculales
Hirschia baltica ATCC 49814
Hyphomonas neptunium ATCC 15444
Maricaulis maris MCS10
Hyphomonadaceae
Brevundimonas subvibrioides ATCC 15264
Asticcacaulis excentricus CB 48
Caulobacter segnis ATCC 21756
Caulobacter sp. K31
Phenylobacterium zucineum HLK1
Caulobacterales
Sinorhizobium meliloti 1021
Agrobacterium vitis S4
Rhizobium etli CFN 42
Mesorhizobium loti MAFF303099
Ochrobactrum anthropi ATCC 49188
Brucella abortus S19
Bartonella tribocorum CIP 105476
Azorhizobium caulinodans ORS 571
Nitrobacter hamburgensis X14
Bradyrhizobium japonicum USDA 6
Methylobacterium extorquens DM4
Beijerinckia indica subsp. indica ATCC 9039
Hyphomicrobium denitrificans ATCC 51888
Parvibaculum lavamentivorans DS-1
Rhizobiales
Zymomonas mobilis subsp. mobilis ZM4
Sphingomonas wittichii RW1
Sphingobium sp. SYK-6
Erythrobacter litoralis HTCC2594
Novosphingobium aromaticivorans DSM 12444
Sphingopyxis alaskensis RB2256
Sphingomonadales
SCGC AAA536-G10
SCGC AAA536-K22
SCGC AAA015-N04
alphaproteobacterium HIMB100
Candidatus Puniceispirillum marinum IMCC1322
SAR116
Gluconacetobacter diazotrophicus PAI 5
Gluconobacter oxydans 621H
Acetobacter pasteurianus IFO 3283-01
Acidiphilium cryptum JF-5
Azospirillum brasilense Sp245
Rhodospirillum rubrum ATCC 11170
Magnetospirillum magneticum AMB-1
Rhodospirillales
alphaproteobacterium HIMB5
Candidatus Pelagibacter sp. HTCC7211
Candidatus Pelagibacter ubique HTCC1002
Candidatus Pelagibacter ubique HTCC1062
Candidatus Pelagibacter ubique HTCC9565
Candidatus Pelagibacter sp. IMCC9063
alphaproteobacterium HIMB114
alphaproteobacterium HIMB59
SAR11
Orientia tsutsugamushi Boryong
Rickettsia bellii OSU 85-389
Rickettsia felis URRWXCal2
Neorickettsia risticii str. Illinois
Wolbachia sp. wRi
Ehrlichia canis str. Jake
Anaplasma phagocytophilum HZ
Rickettsiales
Ralstonia solanacearum GMI1000
Chromobacterium violaceum ATCC 12472
Methylobacillus flagellatus KT
Nitrosospira multiformis ATCC 25196
Betaproteobacteria
Nitrosococcus oceani ATCC 19707
Psychrobacter arcticus 273-4
Escherichia coli str. K12 substr. DH10B
Pasteurella multocida subsp. multocida str. Pm70
Gammaproteobacteria
0.1