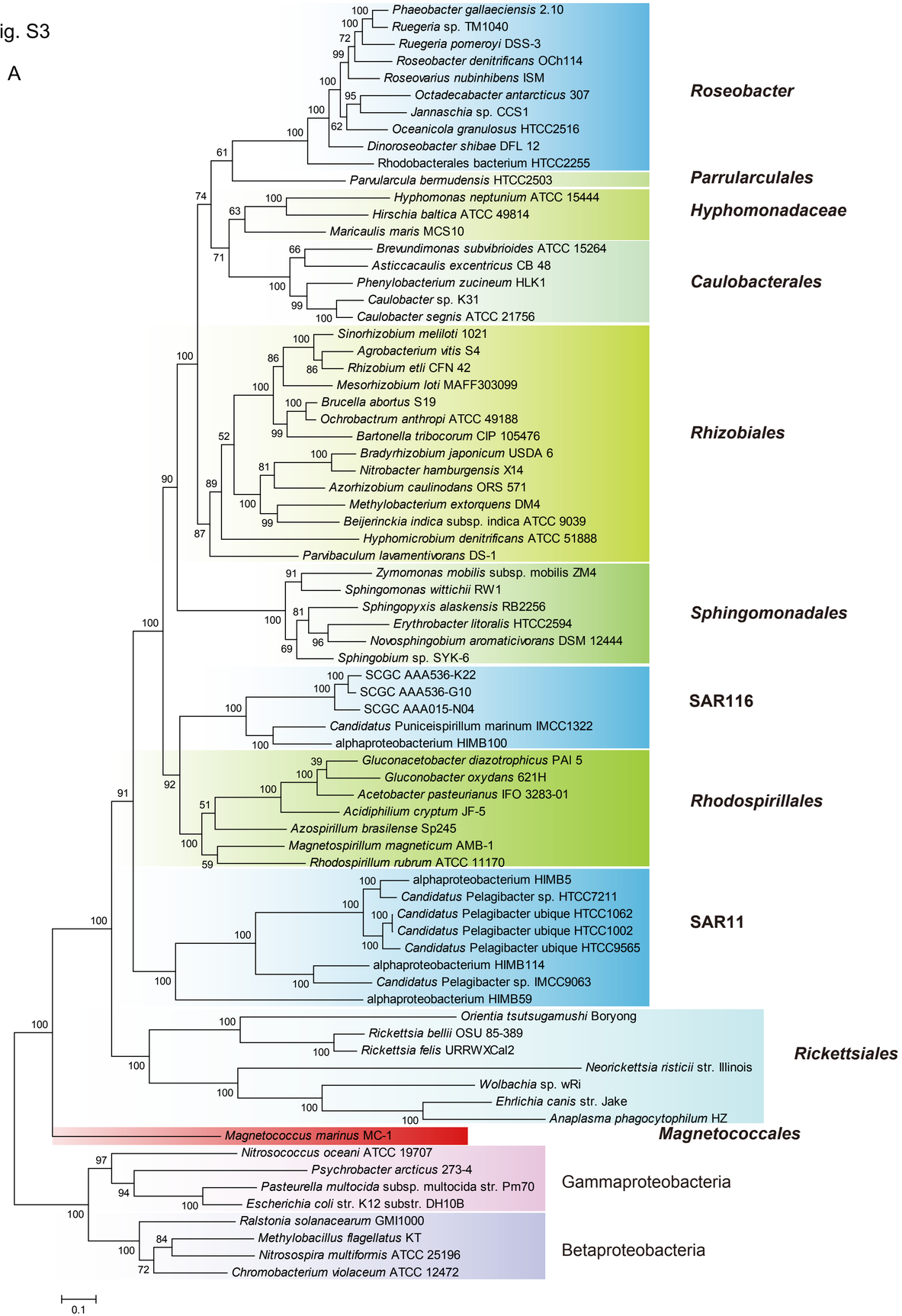
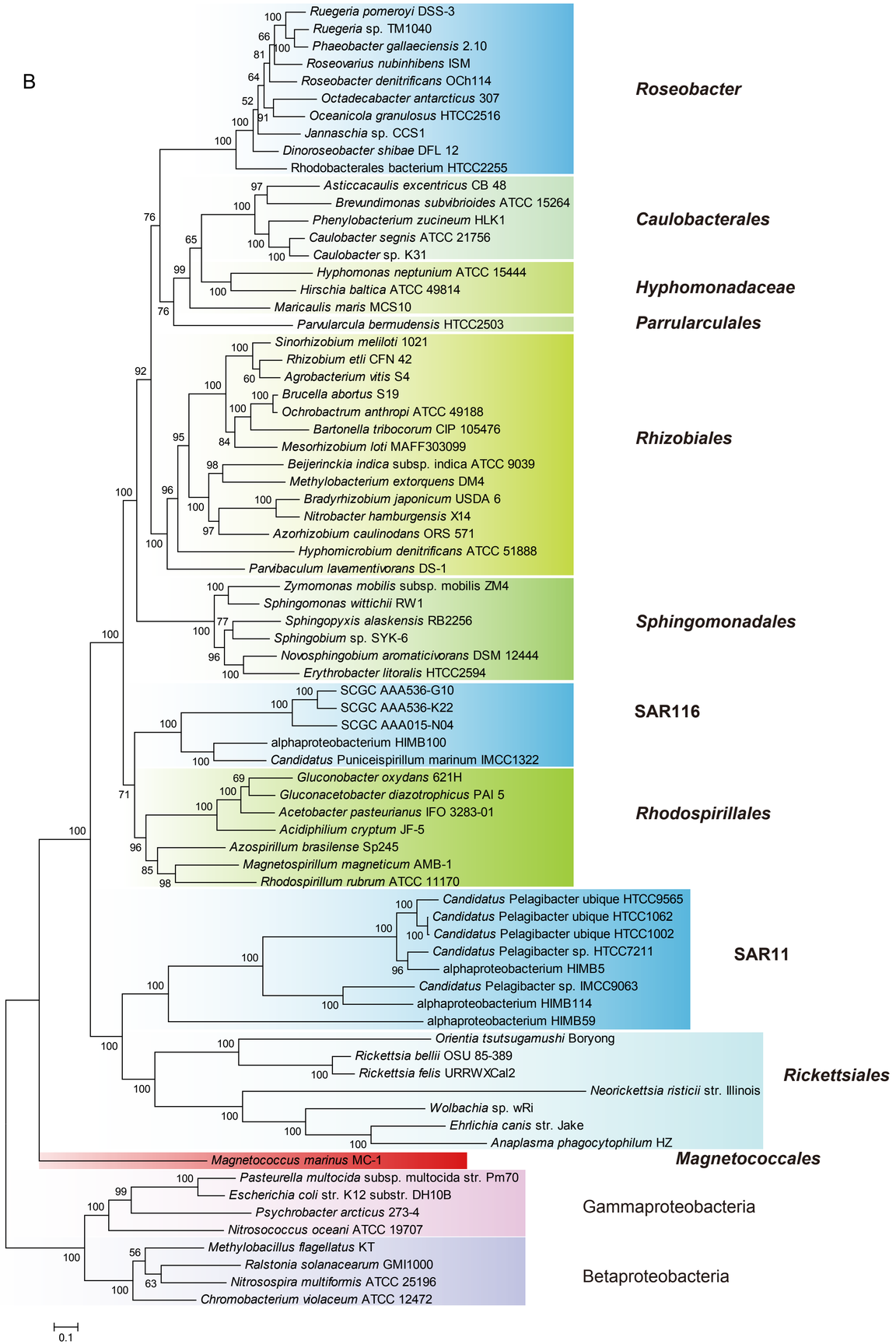
Fig. S3

A


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
Hyphomonas neptunium ATCC 15444
Hirschia baltica ATCC 49814
Maricaulis maris MCS10
Hyphomonadaceae
Brevundimonas subvibrioides ATCC 15264
Asticcacaulis excentricus CB 48
Phenylobacterium zucineum HLK1
Caulobacter sp. K31
Caulobacter segnis ATCC 21756
Caulobacterales
Sinorhizobium meliloti 1021
Agrobacterium vitis S4
Rhizobium etli CFN 42
Mesorhizobium loti MAFF303099
Brucella abortus S19
Ochrobactrum anthropi ATCC 49188
Bartonella tribocorum CIP 105476
Bradyrhizobium japonicum USDA 6
Nitrobacter hamburgensis X14
Azorhizobium caulinodans ORS 571
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
Sphingopyxis alaskensis RB2256
Erythrobacter litoralis HTCC2594
Novosphingobium aromaticivorans DSM 12444
Sphingobium sp. SYK-6
Sphingomonadales
SCGC AAA536-K22
SCGC AAA536-G10
SCGC AAA015-N04
Candidatus Puniceispirillum marinum IMCC1322
alphaproteobacterium HIMB100
SAR116
Gluconacetobacter diazotrophicus PAI 5
Gluconobacter oxydans 621H
Acetobacter pasteurianus IFO 3283-01
Acidiphilium cryptum JF-5
Azospirillum brasilense Sp245
Magnetospirillum magneticum AMB-1
Rhodospirillum rubrum ATCC 11170
Rhodospirillales
alphaproteobacterium HIMB5
Candidatus Pelagibacter sp. HTCC7211
Candidatus Pelagibacter ubique HTCC1062
Candidatus Pelagibacter ubique HTCC1002
Candidatus Pelagibacter ubique HTCC9565
alphaproteobacterium HIMB114
Candidatus Pelagibacter sp. IMCC9063
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
Magnetococcus marinus MC-1
Magnetococcales
Nitrosococcus oceani ATCC 19707
Psychrobacter arcticus 273-4
Pasteurella multocida subsp. multocida str. Pm70
Escherichia coli str. K12 substr. DH10B
Gammaproteobacteria
Ralstonia solanacearum GMI1000
Methylobacillus flagellatus KT
Nitrosospira multiformis ATCC 25196
Chromobacterium violaceum ATCC 12472
Betaproteobacteria
0.1

B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