Figure S7

Chlorobium phaeobacteroides BS1
Prosthecochloris aestuarii DSM 271
Chlorobi
Desulfococcus oleovorans Hxd3
Desulfobacterium autotrophicum HRM2
Desulfobacula toluolica Tol2
Desulfotignum phosphitoxidans DSM 13687
Desulfobacter postgatei 2ac9
δ- Proteobacteria
Kordia algicida OT1
Mesoflavibacter zeaxanthinifaciens S86
Tannerella sp. 6 1 58FAA CT1
Porphyromonas gingivalis ATCC 33277
Bacteroides sp. 2 1 33B
Bacteroides fragilis YCH46
Anaerophaga thermohalophila DSM 12881
Bacteroidetes
Simkania negevensis Z
Waddlia chondrophila WSU 861044
Protochlamydia amoebophila UWE25
Parachlamydia acanthamoebae str. Halls coccus
Chlamydia trachomatis DEC
Chlamydia muridarum Nigg
Chlamydophila caviae GPIC
Chlamydophila pneumoniae CWL029
Chlamydiae
Desulfotalea psychrophila LSv54
delta proteobacterium MLMS1
Desulfurivibrio alkaliphilus AHT2
δ- Proteobacteria
Planctomyces maris DSM 8797
Rhodopirellula baltica SH 1
Rhodopirellula maiorica SM1
Planctomyces brasiliensis DSM 5305
Blastopirellula marina DSM 3645
Planctomycetes
Pseudovibrio sp. JE062
Silicibacter lacuscaerulensis ITI1157
Ruegeria sp. TW15
Roseobacter sp. MED193
Methylophilales bacterium HTCC2181
Oceanicola sp. S124
Rhodobacterales bacterium HTCC2654
Methylomicrobium alcaliphilum 20Z
Methylococcus capsulatus str. Bath
Methylophaga sp. JAM1
Cycloclasticus sp. P1
Saccharophagus degradans 240
Teredinibacter turnerae T7901
Cellvibrio japonicus Ueda107
Pseudomonas aeruginosa PAO1
Thauera sp. MZ1T
Pseudomonas pseudoalcaligenes KF707
Marinomonas mediterranea MMB1
Marinomonas sp. MWYL1
Hahella chejuensis KCTC 2396
Marinobacter aquaeolei VT8
Marinobacter algicola DG893
Alcanivorax borkumensis SK2
Bermanella marisrubri
Neptuniibacter caesariensis
Psychrobacter cryohalolentis K5
Moraxella catarrhalis BC1
Psychrobacter sp. PRwf1
Halomonas boliviensis LC1
Chromohalobacter salexigens DSM 3043
γ- Proteobacteria
α- Proteobacteria
β- Proteobacteria
β- Proteobacteria
Idiomarina loihiensis L2TR
Pseudoalteromonas tunicata D2
Moritella sp. PE36
Colwellia psychrerythraea 34H
Psychromonas sp. CNPT3
Psychromonas ingrahamii 37
Pseudoalteromonas atlantica T6c
Glaciecola mesophila KMM 241
Alteromonas macleodii str. Black Sea 11
Shewanella woodyi ATCC 51908
Shewanella halifaxensis HAWEB4
Ferrimonas balearica DSM 9799
Aeromonas veronii AMC34
Aeromonas caviae Ae398
Photobacterium leiognathi subsp. mandapamensis svers.1.1.
Vibrio cholerae O1 biovar El Tor str. N16961
Neisseria sicca ATCC 29256
Neisseria gonorrhoeae FA 1090
Neisseria gonorrhoeae PID18
Aggregatibacter actinomycetemcomitans D7S1
Haemophilus influenzae 86028NP
Pasteurella multocida subsp. multocida str. Pm70
Serratia proteamaculans 568
Klebsiella pneumoniae subsp. pneumoniae MGH 78578
Escherichia blattae DSM 4481
Yersinia pestis KIM10
1Yersinia pseudotuberculosis YPIII
Photorhabdus asymbiotica
Arsenophonus nasoniae
Enterobacteriaceae bacterium strain FGI 57
β- Proteobacteria
0.1 substitutions/site