Group 1 Membrane-asociated respiratory uptake hydrogenases
Group 2 Heterodimeric cytoplasmic hydrogenases
Group 3 Heteromultimeric reversible cytoplasmic hydrogenases
Tetrameric bifunctional hydrogenases of hyperthermophiles
Group 4 Membrane-associated hydrogen evolving respiratory hydrogenases
0.2
YP_001787163.1 C. botulinum
ZP_02996038.1 C. sporogenes
NP_149305.1 C. acetobutylicum
YP_001310107.1 C. beijerinckii
ZP_05392032.1 C. carboxidivorans
ZP_04804853.1 C. cellulovorans
YP_002605410.1 C. cellulolyticum (Ccel_1071)
ZP_05496689.1 C. papyrosolvens
YP_670964.1 Escherichia coli
AAA23372.2 Desulfovibrio fructosovorans
YP_668892.1 Escherichia coli
YP_668892.1 Chroococcum
CAA37134.1 Azotobacter
AAA16462.1 Ralstonia eutropha
AAC16277.1 Nostoc punctiforme
CAA73659.2 Anabaena variabilis
AAB49365.1 Ralstonia eutropha
AAA62628.1 Bradyrhizobium japonicum
CAA74090.1 Methanosarcina barkeri
AAA72187.1 Methanothermobacter thermautotrophicus
CAA43506.1 Methanococcus voltae
AAA72832.1 Methanothermus fervidus
AAB57892.1 Rhodococcus opacus
AAL81456.1 Pyrococcus furiosus (PF1332)
AAB94936.1 Thermococcus litoralis
YP_184482.1 T. kodakarensis (TK2069)
CAB49779.1 Pyrococcus abyssi
AAL81018.1 Pyrococcus furiosus (PF0894)
AAB88569.1 Escherichia coli
CAA35550.1 Escherichia coli
YP_002506018.1 C. cellulolyticum (Ccel_1687)
AAC45121.1 Rhodospirillum rubrum
AAL81558.1 Pyrococcus kodakarensis (PF1434)
YP_184504.1 Thermococcus kodakarensis (TK2091)
YP_303713.1 Methanosarcina barkeri
YP_002507636.1 C. cellulolyticum (Ccel_3367)
ZP_05495140.1 C. papyrosolvens
YP_002572960.1 C. saccharolyticus (Csac_1538)
ABP67131.1 C. saccharolyticus
NP_621827.1 T. tengcongensis (TTE0127)
YP_001039409.1 C. thermocellum (Cthe_3020)
ZP_03152034.1 C. thermocellum (CtherDRAFT_2169)
YP_001558845.1 C. phytofermentans (Cphy_1734)
YP_181593.1 Dehalococcoides ethenogenes
AAP51029.1 Desulfovibrio gigas
ACL08470.1 Desulfovibrio vulgaris
YP_001820992.1 Opitutus terrae
ABQ25011.1 Geobacter uraniireducens
YP_503186.1 Methanospirillum hungatei
ABN56293.1 Methanoculleus marisnigri
YP_001403195.1 Methanoregula boonei