Escherichia_coli_EDL933 Escherichia_coli_O157_H7 PEscherichia_coli_O6 Escherichia_coli_K12 Shigella_flexneri_2a_2457T Shigella_flexneri_2a_301 Salmonella_enterica Salmonella_typhi Salmonella_typhimurium Yersinia_pestis_Medievalis Yersinia_pestis_KIM Yersinia_pestis_CO92 •Photorhabdus_luminescens Blochmannia_floridanus Wigglesworthia_brevipalpis Buchnera_aphidicola_Bp Buchnera_aphidicola_APS Buchnera_aphidicola_Sg Pasteurella_multocida ^l•Haemophilus_influenzae -Haemophilus_ducreyi Vibrio_vulnificus_YJ016 Vibrio_vulnificus_CMCP6 Vibrio_parahaemolyticus Vibrio_cholerae Photobacterium_profundum Shewanella_oneidensis •Pseudomonas_putida Pseudomonas_syringae Pseudomonas_aeruginosa •Xylella_fastidiosa_700964 Xylella_fastidiosa_9a5c Xanthomonas_axonopodis Xanthomonas_campestris Coxiella_burnetii Neisseria_meningitidis_A Neisseria_meningitidis_B Chromobacterium_violaceum Bordetella_pertussis Bordetella_parapertussis Bordetella_bronchiseptica Ralstonia_solanacearum Nitrosomonas_europaea Agrobacterium_tumefaciens_Cereon Agrobacterium_tumefaciens_WashU Rhizobium_meliloti Brucella_suis Brucella_melitensis •Rhizobium_loti •Rhodopseudomonas_palustris Bradyrhizobium_japonicum Caulobacter_crescentus •Wolbachia_sp._wMel Rickettsia_prowazekii •Rickettsia_conorii Helicobacter_pylori_J99 Helicobacter_pylori_26695 Helicobacter_hepaticus Wolinella_succinogenes Campylobacter_jejuni Desulfovibrio_vulgaris Geobacter_sulfurreducens Bdellovibrio_bacteriovorus Acidobacterium_capsulatum Solibacter_usitatus Fusobacterium_nucleatum Aquifex_aeolicus •Thermotoga_maritima Thermus_thermophilus Deinococcus_radiodurans Dehalococcoides_ethenogenes Nostoc_sp._PCC_7120 Synechocystis_sp._PCC6803 Synechococcus_elongatus Synechococcus_sp._WH8102 Prochlorococcus_marinus_MIT9313 Prochlorococcus_marinus_SS120 Prochlorococcus_marinus_CCMP1378 Gloeobacter_violaceus Gemmata_obscuriglobus Rhodopirellula_baltica Leptospira_interrogans_L1-130 Leptospira_interrogans_56601 Treponema_pallidum Treponema_denticola Borrelia_burgdorferi Tropheryma_whipplei_TW08/27 Tropheryma_whipplei_Twist Bifidobacterium_longum Corynebacterium_glutamicum_13032 Corynebacterium_glutamicum Corynebacterium_efficiens Corynebacterium_diphtheriae Mycobacterium_bovis Mycobacterium_tuberculosis_CDC1551 Mycobacterium_tuberculosis_H37Rv Mycobacterium_leprae Mycobacterium_paratuberculosis Streptomyces_avermitilis Streptomyces_coelicolor Fibrobacter_succinogenes •Chlorobium_tepidum Porphyromonas_gingivalis Bacteroides_thetaiotaomicron •Chlamydophila_pneumoniae_TW183 *Chlamydia_pneumoniae_J138 Chlamydia_pneumoniae_CWL029 Chlamydia_pneumoniae_AR39 •Chlamydophila_caviae Chlamydia_muridarum Chlamydia_trachomatis Thermoanaerobacter_tengcongensis Clostridium_tetani Clostridium_perfringens Clostridium_acetobutylicum •Mycoplasma_mobile •Mycoplasma_pulmonis •Mycoplasma_pneumoniae Mycoplasma_genitalium Mycoplasma_gallisepticum Mycoplasma_penetrans Ureaplasma_parvum Mycoplasma_mycoides Phytoplasma_Onion_yellows Listeria_monocytogenes_F2365 Listeria_monocytogenes_EGD Listeria_innocua Oceanobacillus_iheyensis Bacillus_halodurans Bacillus_cereus_ATCC_14579 Bacillus_cereus_ATCC_10987 Bacillus_anthracis Bacillus_subtilis Staphylococcus_aureus_MW2 Staphylococcus_aureus_N315 Staphylococcus_aureus_Mu50 Staphylococcus_epidermidis Streptococcus_agalactiae_III Streptococcus_agalactiae_V Streptococcus_pyogenes_M1 Streptococcus_pyogenes_MGAS8232 Streptococcus_pyogenes_MGAS315 Streptococcus_pyogenes_SSI-1 Streptococcus_mutans Streptococcus_pneumoniae_R6 Streptococcus_pneumoniae_TIGR4 Lactococcus_lactis Enterococcus_faecalis Lactobacillus_johnsonii .actobacillus_plantarum Thalassiosira_pseudonana Cryptosporidium_hominis Plasmodium_falciparum Oryza_sativa •Arabidopsis_thaliana Cyanidioschyzon_merolae Dictyostelium_discoideum Eremothecium_gossypii Saccharomyces_cerevisiae •Schizosaccharomyces_pombe •Anopheles_gambiae Drosophila_melanogaster Takifugu_rubripes Danio_rerio Rattus_norvegicus •Mus_musculus -Homo_sapiens Pan_troglodytes •Gallus_gallus Caenorhabditis_elegans Caenorhabditis_briggsae Leishmania_major Giardia_lamblia Nanoarchaeum_equitans Sulfolobus_tokodaii Sulfolobus_solfataricus Aeropyrum_pernix Pyrobaculum_aerophilum Thermoplasma_volcanium Thermoplasma_acidophilum Methanobacterium_thermautotrophicum •Methanopyrus_kandleri Methanococcus_maripaludis •Methanococcus_jannaschii Pyrococcus_horikoshii Pyrococcus_abyssi Pyrococcus_furiosus Archaeoglobus_fulgidus Halobacterium_sp._NRC-1 Methanosarcina_acetivorans Methanosarcina_mazei 0.737975