NC_014374 Acidilobus saccharovorans 345-15
NC_014374 Acidilobus saccharovorans 345-15
NC_019791 Caldisphaera lagunensis DSM15908
NC_019791 Caldisphaera lagunensis DSM15908
NC_019791 Caldisphaera lagunensis DSM15908
NC_000854 Aeropyrum pernix K1
NC_000854 Aeropyrum pernix K1
NC_011766 Desulfurococcus kamchatkensis 1221n
NC_017954 Thermogladius cellulolyticus 1633
NC_014160 Thermosphaera aggregans DSM11486
NC_008818 Hyperthermus butylicus DSM5456
NC_015931 Pyrolobus fumarii 1A
NC_017461 Fervidicoccus fontis Kam940
NC_015518 Acidianus hospitalis W1
NC_015518 Acidianus hospitalis W1
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NC_009440 Metallosphaera sedula DSM5348
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NC_007181 Sulfolobus acidocaldarius DSM639
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NC_002754 Sulfolobus solfataricus P2
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NC_002754 Sulfolobus solfataricus P2
NC_002754 Sulfolobus solfataricus P2
NC_022093 Thermofilum sp. 1910b
NC_009954 Caldivirga maquilingensis IC-167
NC_009954 Caldivirga maquilingensis IC-167
NC_003364 Pyrobaculum aerophilum str. IM2
NC_003364 Pyrobaculum aerophilum str. IM2
NC_016070 Thermoproteus tenax Kra 1
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NC_016070 Thermoproteus tenax Kra 1
NC_014537 Vulcanisaeta distributa DSM14429
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NC_014537 Vulcanisaeta distributa DSM14429
NC_013926 Aciduliprofundum boonei T469
NC_000917 Archaeoglobus fulgidus DSM4304
NC_013849 Ferroglobus placidus DSM10642
NC_014297 Halalkalicoccus jeotgali B3
NC_014297 Halalkalicoccus jeotgali B3
NC_006396 Haloarcula marismortui ATCC 43049
NC_006394 Haloarcula marismortui ATCC 43049
NC_006397 Haloarcula marismortui ATCC 43049
NC_006396 Haloarcula marismortui ATCC 43049
NC_002607 Halobacterium sp. NRC-1
NC_002607 Halobacterium sp. NRC-1
NC_013967 Haloferax volcanii DS2
NC_014729 Halogeometricum borinquense DSM11551
NC_014735 Halogeometricum borinquense DSM11551
NC_014736 Halogeometricum borinquense DSM11551
NC_014729 Halogeometricum borinquense DSM11551
NC_013202 Halomicrobium mukohataei DSM12286
NC_013202 Halomicrobium mukohataei DSM12286
NC_015666 Halopiger xanaduensis SH-6
NC_015666 Halopiger xanaduensis SH-6
NC_015667 Halopiger xanaduensis SH-6
NC_015666 Halopiger xanaduensis SH-6
NC_015666 Halopiger xanaduensis SH-6
NC_017459 Haloquadratum walsbyi C23
NC_021921 Halorhabdus tiamatea SARL4B
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NC_021921 Halorhabdus tiamatea SARL4B
NC_012028 Halorubrum lacusprofundi ATCC 49239
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NC_013743 Haloterrigena turkmenica DSM5511
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NC_019964 Halovivax ruber XH-70
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NC_013922 Natrialba magadii ATCC 43099
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NC_018224 Natrinema sp. J7-2
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NC_019792 Natronobacterium gregoryi SP2
NC_019792 Natronobacterium gregoryi SP2
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NC_019974 Natronococcus occultus SP4
NC_007426 Natronomonas pharaonis DSM2160
NC_021313 Salinarchaeum sp. Harcht-Bsk1
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NC_021313 Salinarchaeum sp. Harcht-Bsk1
NC_015216 Methanobacterium lacus
NC_013790 Methanobrevibacter ruminantium M1
NC_013790 Methanobrevibacter ruminantium M1
NC_007681 Methanosphaera stadtmanae DSM3091
NC_000916 Methanothermobacter thermautotrophicus str. Delta H
NC_014658 Methanothermus fervidus DSM2088
NC_000909 Methanocaldococcus jannaschii DSM2661
NC_005791 Methanococcus maripaludis S2
NC_015636 Methanothermococcus okinawensis IH1
NC_009464 Methanocella arvoryzae MRE50
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NC_008942 Methanocorpusculum labreanum Z
NC_018227 Methanoculleus bourgensis MS2
NC_018227 Methanoculleus bourgensis MS2
NC_014507 Methanoplanus petrolearius DSM11571
NC_019943 Methanoregula formicica SMSP
NC_011832 Methanosphaerula palustris E1-9c
NC_011832 Methanosphaerula palustris E1-9c
NC_007796 Methanospirillum hungatei JF-1
NC_015416 Methanosaeta concilii GP6
NC_007955 Methanococcoides burtonii DSM6242
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NC_014253 Methanohalobium evestigatum Z-7303
NC_014002 Methanohalophilus mahii DSM5219
NC_014002 Methanohalophilus mahii DSM5219
NC_018876 Methanolobus psychrophilus R15
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NC_019977 Methanomethylovorans hollandica DSM15978
NC_015676 Methanosalsum zhilinae DSM4017
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NC_003551 Methanopyrus kandleri AV19
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NC_005877 Picrophilus torridus DSM9790
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NC_005877 Picrophilus torridus DSM9790
NC_002578 Thermoplasma acidophilum DSM1728
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NC_002578 Thermoplasma acidophilum DSM1728
NC_002689 Thermoplasma volcanium GSS1
NC_002689 Thermoplasma volcanium GSS1
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NC_018719 Candidatus Nitrososphaera gargensis Ga9.2
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NC_018719 Candidatus Nitrososphaera gargensis Ga9.2
NC_022786 Candidatus Caldiarchaeum subterraneum
NC_022786 Candidatus Caldiarchaeum subterraneum
NC_016631 Granulicella mallensis MP5ACTX8
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NC_016025 Candidatus Chloracidobacterium thermophilum B
NC_016024 Candidatus Chloracidobacterium thermophilum B
NC_008009 Candidatus Koribacter versatilis Ellin345
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NC_008536 Candidatus Solibacter usitatus Ellin6076
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NC_020520 Ilumatobacter coccineus YM16-304
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NC_014246 Mobiluncus curtisii ATCC 43063
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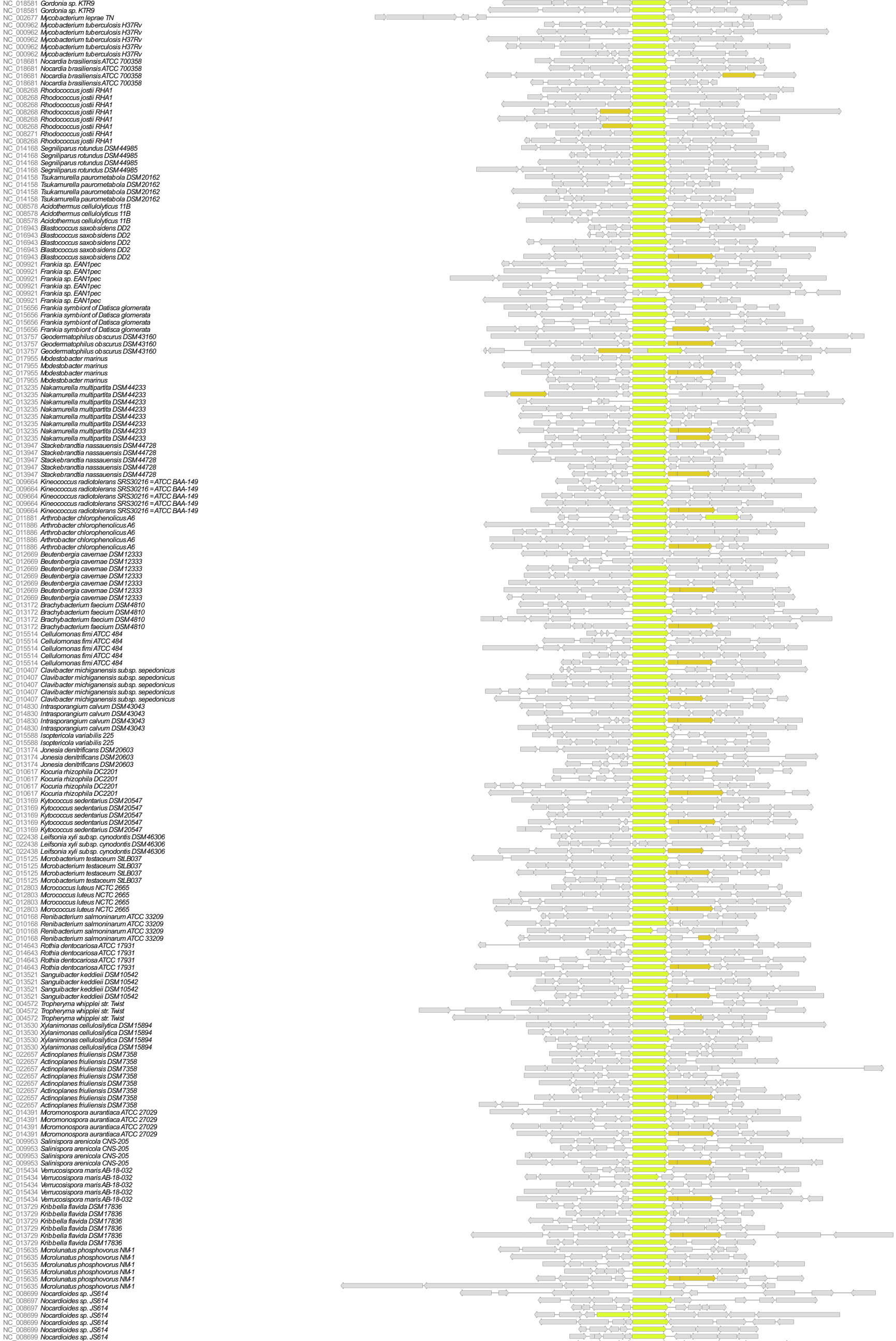
NC_006958 Corynebacterium glutamicum ATCC 13032
NC_006958 Corynebacterium glutamicum ATCC 13032
NC_006958 Corynebacterium glutamicum ATCC 13032
NC_006958 Corynebacterium glutamicum ATCC 13032
NC_018581 Gordonia sp. KTR9
NC_018581 Gordonia sp. KTR9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NC_002677 Mycobacterium leprae TN
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NC_000962 Mycobacterium tuberculosis H37Rv
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NC_008268 Rhodococcus jostii RHA1
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NC_014168 Segniliparus rotundus DSM 44985
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NC_014158 Tsukamurella paurometabola DSM 20162
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NC_008578 Acidothermus cellulolyticus 11B
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NC_009921 Frankia sp. EAN1pec
NC_009921 Frankia sp. EAN1pec
NC_015656 Frankia symbiont of Datisca glomerata
NC_015656 Frankia symbiont of Datisca glomerata
NC_015656 Frankia symbiont of Datisca glomerata
NC_015656 Frankia symbiont of Datisca glomerata
NC_013757 Geodermatophilus obscurus DSM 43160
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NC_017955 Modestobacter marinus
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NC_013947 Stackebrandtia nassauensis DSM 44728
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NC_009664 Kineococcus radiotolerans SRS30216 = ATCC BAA-149
NC_011881 Arthrobacter chlorophenolicus A6
NC_011886 Arthrobacter chlorophenolicus A6
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NC_011886 Arthrobacter chlorophenolicus A6
NC_012669 Beutenbergia cavernae DSM 12333
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NC_012669 Beutenbergia cavernae DSM 12333
NC_013172 Brachybacterium faecium DSM 4810
NC_013172 Brachybacterium faecium DSM 4810
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NC_013172 Brachybacterium faecium DSM 4810
NC_015514 Cellulomonas fimi ATCC 484
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NC_010407 Clavibacter michiganensis subsp. sepedonicus
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NC_014830 Intrasporangium calvum DSM 43043
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NC_014830 Intrasporangium calvum DSM 43043
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NC_015588 Isoptericola variabilis 225
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NC_013174 Jonesia denitrificans DSM 20603
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NC_010617 Kocuria rhizophila DC2201
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NC_022438 Leifsonia xyli subsp. cynodontis DSM 46306
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NC_015125 Microbacterium testaceum StLB037
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NC_012803 Micrococcus luteus NCTC 2665
NC_010168 Renibacterium salmoninarum ATCC 33209
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NC_010168 Renibacterium salmoninarum ATCC 33209
NC_010168 Renibacterium salmoninarum ATCC 33209
NC_014643 Rothia dentocariosa ATCC 17931
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NC_014643 Rothia dentocariosa ATCC 17931
NC_013521 Sanguibacter keddieii DSM 10542
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NC_013521 Sanguibacter keddieii DSM 10542
NC_013521 Sanguibacter keddieii DSM 10542
NC_004572 Tropheryma whipplei str. Twist
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NC_004572 Tropheryma whipplei str. Twist
NC_013530 Xylanimonas cellulosilytica DSM 15894
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NC_008699 Nocardioides sp. JS614
NC_019395 Propionibacterium acidipropionici ATCC 4875
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NC_014165 Thermobispora bispora DSM43833
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NC_007333 Thermobifida fusca YX
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NC_013510 Thermomonospora curvata DSM43183
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NC_013204 Eggerthella lenta DSM 2243
NC_021021 Gordonibacter pamelaeae 7-10-1-b
NC_013165 Slackia heliotrinireducens DSM 20476
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NC_013739 Conexibacter woesei DSM 14684
NC_013739 Conexibacter woesei DSM 14684
NC_000918 Aquifex aeolicus VF5
NC_013799 Hydrogenobacter thermophilus TK-6
NC_013799 Hydrogenobacter thermophilus TK-6
NC_013799 Hydrogenobacter thermophilus TK-6
NC_013799 Hydrogenobacter thermophilus TK-6
NC_011126 Hydrogenobaculum sp. Y04AAS1
NC_011126 Hydrogenobaculum sp. Y04AAS1
NC_011126 Hydrogenobaculum sp. Y04AAS1
NC_013894 Thermocrinis albus DSM 14484
NC_013894 Thermocrinis albus DSM 14484
NC_012440 Persephonella marina EX-H1
NC_012438 Sulfurihydrogenibium azorense Az-Fu1
NC_021487 Chthonomonas calidirosea T49
NC_021487 Chthonomonas calidirosea T49
NC_021487 Chthonomonas calidirosea T49
NC_013501 Rhodothermus marinus DSM 4252
NC_013501 Rhodothermus marinus DSM 4252
NC_014032 Salinibacter ruber M8
NC_014032 Salinibacter ruber M8
NC_014032 Salinibacter ruber M8
NC_014032 Salinibacter ruber M8
NC_004663 Bacteroides thetaiotaomicron VPI-5482
NC_004663 Bacteroides thetaiotaomicron VPI-5482
NC_004663 Bacteroides thetaiotaomicron VPI-5482
NC_015160 Odoribacter splanchnicus DSM 20712
NC_015160 Odoribacter splanchnicus DSM 20712
NC_014734 Paludibacter propionicigenes WB4
NC_009615 Parabacteroides distasonis ATCC 8503
NC_009615 Parabacteroides distasonis ATCC 8503
NC_009615 Parabacteroides distasonis ATCC 8503
NC_015571 Porphyromonas gingivalis TDC60
NC_016610 Tannerella forsythia ATCC 43037
NC_014033 Prevotella ruminicola 23
NC_018011 Alistipes finegoldii DSM 17242
NC_010830 Candidatus Amoebophilus asiaticus 5a2
NC_018605 Cardinium endosymbiont cEper1 of Encarsia pergandiella
NC_018010 Belliella baltica DSM 15883
NC_018010 Belliella baltica DSM 15883
NC_018010 Belliella baltica DSM 15883
NC_015914 Cyclobacterium marinum DSM 745
NC_015914 Cyclobacterium marinum DSM 745
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NC_019904 Echinicola vietnamensis DSM 17526
NC_019904 Echinicola vietnamensis DSM 17526
NC_019904 Echinicola vietnamensis DSM 17526
NC_019904 Echinicola vietnamensis DSM 17526
NC_008255 Cytophaga hutchinsonii ATCC 33406
NC_008255 Cytophaga hutchinsonii ATCC 33406
NC_008255 Cytophaga hutchinsonii ATCC 33406
NC_013037 Dyadobacter fermentans DSM 18053
NC_013037 Dyadobacter fermentans DSM 18053
NC_018748 Emticicia oligotrophica DSM 17448
NC_018748 Emticicia oligotrophica DSM 17448
NC_020054 Fibrella aestuarina BUZ 2
NC_020054 Fibrella aestuarina BUZ 2
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NC_020054 Fibrella aestuarina BUZ 2
NC_018018 Flexibacter litoralis DSM 6794
NC_018018 Flexibacter litoralis DSM 6794
NC_018018 Flexibacter litoralis DSM 6794
NC_014655 Leadbetterella byssophila DSM 17132
NC_014655 Leadbetterella byssophila DSM 17132
NC_015703 Runella slithyformis DSM 19594
NC_015703 Runella slithyformis DSM 19594
NC_013730 Spirosoma linguale DSM 74
NC_013730 Spirosoma linguale DSM 74
NC_013730 Spirosoma linguale DSM 74
NC_014759 Marivirga tractuosa DSM 4126
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NC_014759 Marivirga tractuosa DSM 4126
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NC_014759 Marivirga tractuosa DSM 4126
NC_013454 Blattabacterium sp. str. Bge
NC_013454 Blattabacterium sp. str. Bge
NC_015321 Fluviicola taffensis DSM 16823
NC_015321 Fluviicola taffensis DSM 16823
NC_015321 Fluviicola taffensis DSM 16823
NC_016599 Owenweeksia hongkongensis DSM 17368
NC_016599 Owenweeksia hongkongensis DSM 17368
NC_016599 Owenweeksia hongkongensis DSM 17368
NC_016599 Owenweeksia hongkongensis DSM 17368
NC_018013 Aequorivita sublithincola DSM 14238
NC_018013 Aequorivita sublithincola DSM 14238
NC_018013 Aequorivita sublithincola DSM 14238
NC_015846 Capnocytophaga canimorsus Cc5
NC_015846 Capnocytophaga canimorsus Cc5
NC_014934 Cellulophaga algicola DSM 14237
NC_014934 Cellulophaga algicola DSM 14237
NC_014934 Cellulophaga algicola DSM 14237
NC_014230 Croceibacter atlanticus HTCC2559
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NC_015496 Dokdonia sp. 4H-3-7-5
NC_009441 Flavobacterium johnsoniae UW101
NC_009441 Flavobacterium johnsoniae UW101
NC_008571 Gramella forsetii KT0803
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NC_008571 Gramella forsetii KT0803

NC_015638 Lacinutrix sp. 5H-3-7-4
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NC_015945 Muricauda ruestringensis DSM13258
NC_015945 Muricauda ruestringensis DSM13258
NC_020156 Nonlabens dokdonensis DSW-6
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NC_018016 Ornithobacterium rhinotracheale DSM15997
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NC_018016 Ornithobacterium rhinotracheale DSM15997
NC_020830 Polaribacter sp. MED152
NC_020830 Polaribacter sp. MED152
NC_020830 Polaribacter sp. MED152
NC_018721 Psychroflexus torquis ATCC 700755
NC_018721 Psychroflexus torquis ATCC 700755
NC_018609 Riemerella anatipestifer RA-CH-1
NC_018609 Riemerella anatipestifer RA-CH-1
NC_013222 Robiginitalea biformata HTCC2501
NC_013222 Robiginitalea biformata HTCC2501
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NC_015144 Weeksella virosa DSM16922
NC_015144 Weeksella virosa DSM16922
NC_015844 Zobellia galactanivorans
NC_015844 Zobellia galactanivorans
NC_015844 Zobellia galactanivorans
NC_014041 Zunongwangia profunda SM-A87
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NC_014041 Zunongwangia profunda SM-A87
NC_014499 Candidatus Sulcia muelleri CARI
NC_014499 Candidatus Sulcia muelleri CARI
NC_020135 Candidatus Uzinura diaspidicola str. ASNER
NC_020135 Candidatus Uzinura diaspidicola str. ASNER
NC_013132 Chitinophaga pinensis DSM2588
NC_013132 Chitinophaga pinensis DSM2588
NC_013132 Chitinophaga pinensis DSM2588
NC_016609 Niastella koreensis GR20-10
NC_016609 Niastella koreensis GR20-10
NC_015510 Haliscomenobacter hydrossis DSM1100
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NC_016940 Saprospira grandis str. Lewin
NC_016940 Saprospira grandis str. Lewin
NC_013061 Pedobacter heparinus DSM2366
NC_013061 Pedobacter heparinus DSM2366
NC_017770 Solitalea canadensis DSM3403
NC_017770 Solitalea canadensis DSM3403
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NC_015277 Sphingobacterium sp. 21
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NC_017096 Caldisericum exile AZM16c01
NC_000117 Chlamydia trachomatis D/UW-3/CX
NC_000922 Chlamydophila pneumoniae CWL029
NC_015702 Parachlamydia acanthamoebae UV-7
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NC_015702 Parachlamydia acanthamoebae UV-7
NC_015702 Parachlamydia acanthamoebae UV-7
NC_005861 Candidatus Protochlamydia amoebophila UWE25
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NC_014225 Waddlia chondrophila WSU 86-1044
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NC_011027 Chlorobaculum parvum NCIB 8327
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NC_011026 Chloroherpeton thalassium ATCC 35110
NC_011060 Pelodictyon phaeoclathratiforme BU-1
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NC_014960 Anaerolinea thermophila UNI-1
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NC_009523 Roseiflexus sp. RS-1
NC_009972 Herpetosiphon aurantiacus DSM785
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NC_014314 Dehalogenimonas lykanthroporepellens BL-DC-9
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NC_013524 Sphaerobacter thermophilus DSM20745
NC_011961 Thermomicrobium roseum DSM5159
NC_011961 Thermomicrobium roseum DSM5159
NC_014836 Desulfurispirillum indicum S5
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NC_014836 Desulfurispirillum indicum S5
NC_020449 Candidatus Cloacimonas acidaminovorans str. Evry
NC_005125 Gloeobacter violaceus PCC 7421
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NC_019771 Anabaena cylindrica PCC 7122
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NC_019771 Anabaena cylindrica PCC 7122
NC_019757 Cylindrospermum stagnale PCC 7417
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NC_010628 Nostoc punctiforme PCC 73102
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NC_019682 Calothrix sp. PCC 7507
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NC_019678 Rivularia sp. PCC 7116
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NC_019745 Gloeocapsa sp. PCC 7428
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NC_019779 Halothece sp. PCC 7418
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NC_004113 Thermosynechococcus elongatus BP-1
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NC_016640 Arthrospira platensis NIES-39
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NC_019753 Crinalium epipsammum PCC 9333
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NC_019753 Crinalium epipsammum PCC 9333
NC_019703 Geitlerinema sp. PCC 7407
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NC_019703 Geitlerinema sp. PCC 7407
NC_019703 Geitlerinema sp. PCC 7407
NC_019683 Leptolyngbya sp. PCC 7376
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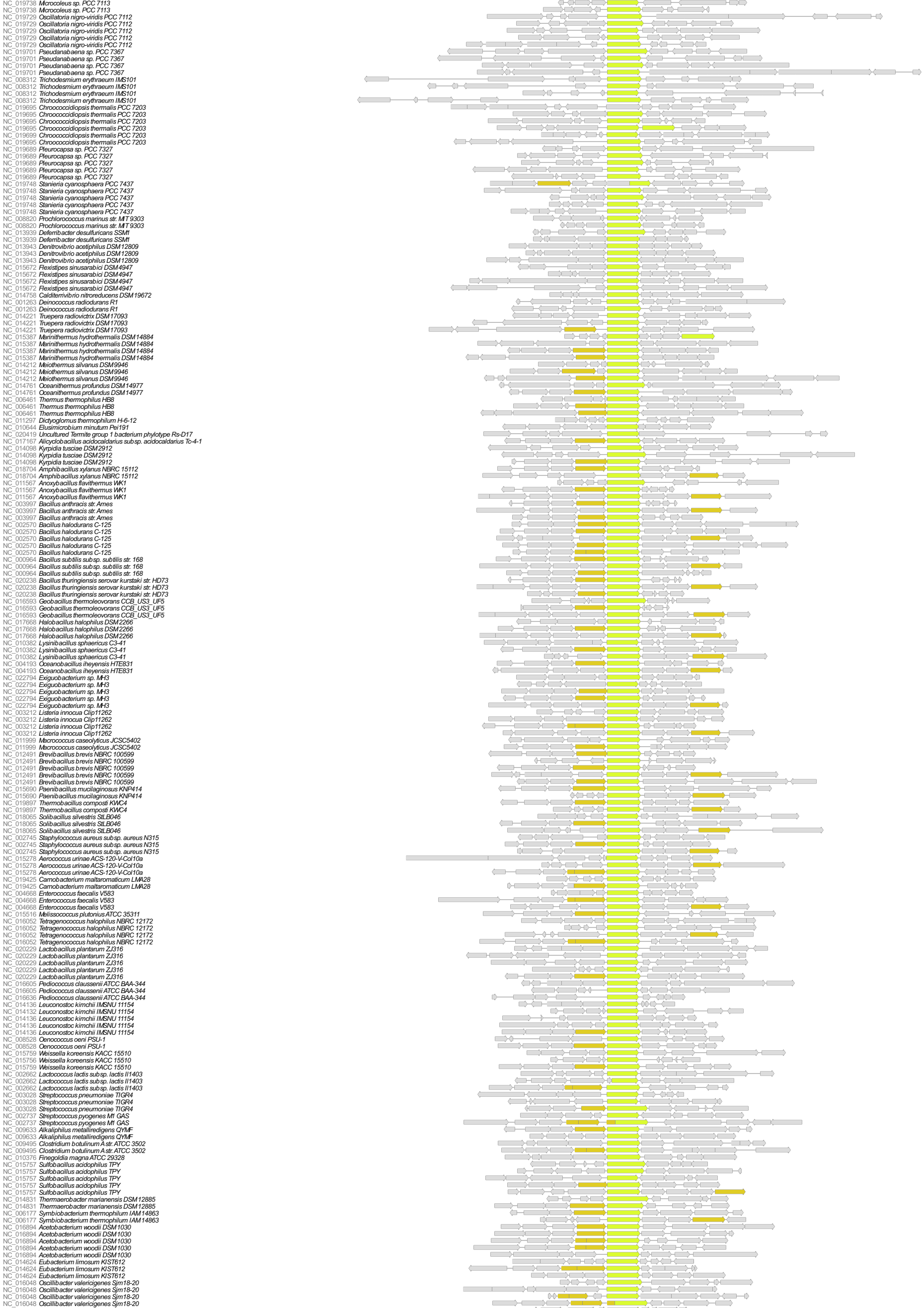
NC_019738 Microcoleus sp. PCC 7113
NC_019738 Microcoleus sp. PCC 7113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NC_019701 Pseudanabaena sp. PCC 7367
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NC_019701 Pseudanabaena sp. PCC 7367
NC_008312 Trichodesmium erythraeum IMS101
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NC_019699 Chroococcidiopsis thermalis PCC 7203
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NC_019689 Pleurocapsa sp. PCC 7327
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NC_019689 Pleurocapsa sp. PCC 7327
NC_019748 Stanieria cyanosphaera PCC 7437
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NC_008820 Prochlorococcus marinus str. MIT 9303
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NC_013939 Deferribacter desulfuricans SSM1
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NC_013943 Denitrovibrio acetiphilus DSM12809
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NC_015672 Flexistipes sinusarabici DSM4947
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NC_015387 Marinithermus hydrothermalis DSM14884
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NC_014212 Meiothermus silvanus DSM9946
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NC_014761 Oceanithermus profundus DSM14977
NC_014761 Oceanithermus profundus DSM14977
NC_006461 Thermus thermophilus HB8
NC_006461 Thermus thermophilus HB8
NC_006461 Thermus thermophilus HB8
NC_011297 Dictyoglomus thermophilum H-6-12
NC_010644 Elusimicrobium minutum Pei191
NC_020419 Uncultured Termite group 1 bacterium phylotype Rs-D17
NC_017167 Alicyclobacillus acidocaldarius subsp. acidocaldarius Tc-4-1
NC_014098 Kyrpidia tusciae DSM2912
NC_014098 Kyrpidia tusciae DSM2912
NC_014098 Kyrpidia tusciae DSM2912
NC_018704 Amphibacillus xylanus NBRC 15112
NC_018704 Amphibacillus xylanus NBRC 15112
NC_011567 Anoxybacillus flavithermus WK1
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NC_003997 Bacillus anthracis str. Ames
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NC_003997 Bacillus anthracis str. Ames
NC_002570 Bacillus halodurans C-125
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NC_000964 Bacillus subtilis subsp. subtilis str. 168
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NC_020238 Bacillus thuringiensis serovar kurstaki str. HD73
NC_020238 Bacillus thuringiensis serovar kurstaki str. HD73
NC_020238 Bacillus thuringiensis serovar kurstaki str. HD73
NC_016593 Geobacillus thermoleovorans CCB_US3_UF5
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NC_017668 Halobacillus halophilus DSM2266
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NC_010382 Lysinibacillus sphaericus C3-41
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NC_004193 Oceanobacillus iheyensis HTE831
NC_004193 Oceanobacillus iheyensis HTE831
NC_022794 Exiguobacterium sp. MH3
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NC_003212 Listeria innocua Clip11262
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NC_015690 Paenibacillus mucilaginosus KNP414
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NC_019897 Thermobacillus composti KWC4
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NC_018065 Solibacillus silvestris StLB046
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NC_002745 Staphylococcus aureus subsp. aureus N315
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NC_015278 Aerococcus urinae ACS-120-V-Col10a
NC_019425 Carnobacterium maltaromaticum LMA28
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NC_004668 Enterococcus faecalis V583
NC_004668 Enterococcus faecalis V583
NC_004668 Enterococcus faecalis V583
NC_015516 Melissococcus plutonius ATCC 35311
NC_016052 Tetragenococcus halophilus NBRC 12172
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NC_020229 Lactobacillus plantarum ZJ316
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NC_015759 Weissella koreensis KACC 15510
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NC_002662 Lactococcus lactis subsp. lactis Il1403
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NC_003028 Streptococcus pneumoniae TIGR4
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NC_002737 Streptococcus pyogenes M1 GAS
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NC_010376 Finegoldia magna ATCC 29328
NC_015757 Sulfobacillus acidophilus TPY
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NC_014831 Thermaerobacter marianensis DSM12885
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NC_006177 Symbiobacterium thermophilum IAM14863
NC_006177 Symbiobacterium thermophilum IAM14863
NC_016894 Acetobacterium woodii DSM1030
NC_016894 Acetobacterium woodii DSM1030
NC_016894 Acetobacterium woodii DSM1030
NC_016894 Acetobacterium woodii DSM1030
NC_014624 Eubacterium limosum KIST612
NC_014624 Eubacterium limosum KIST612
NC_014624 Eubacterium limosum KIST612
NC_016048 Oscillibacter valericigenes Sjm18-20
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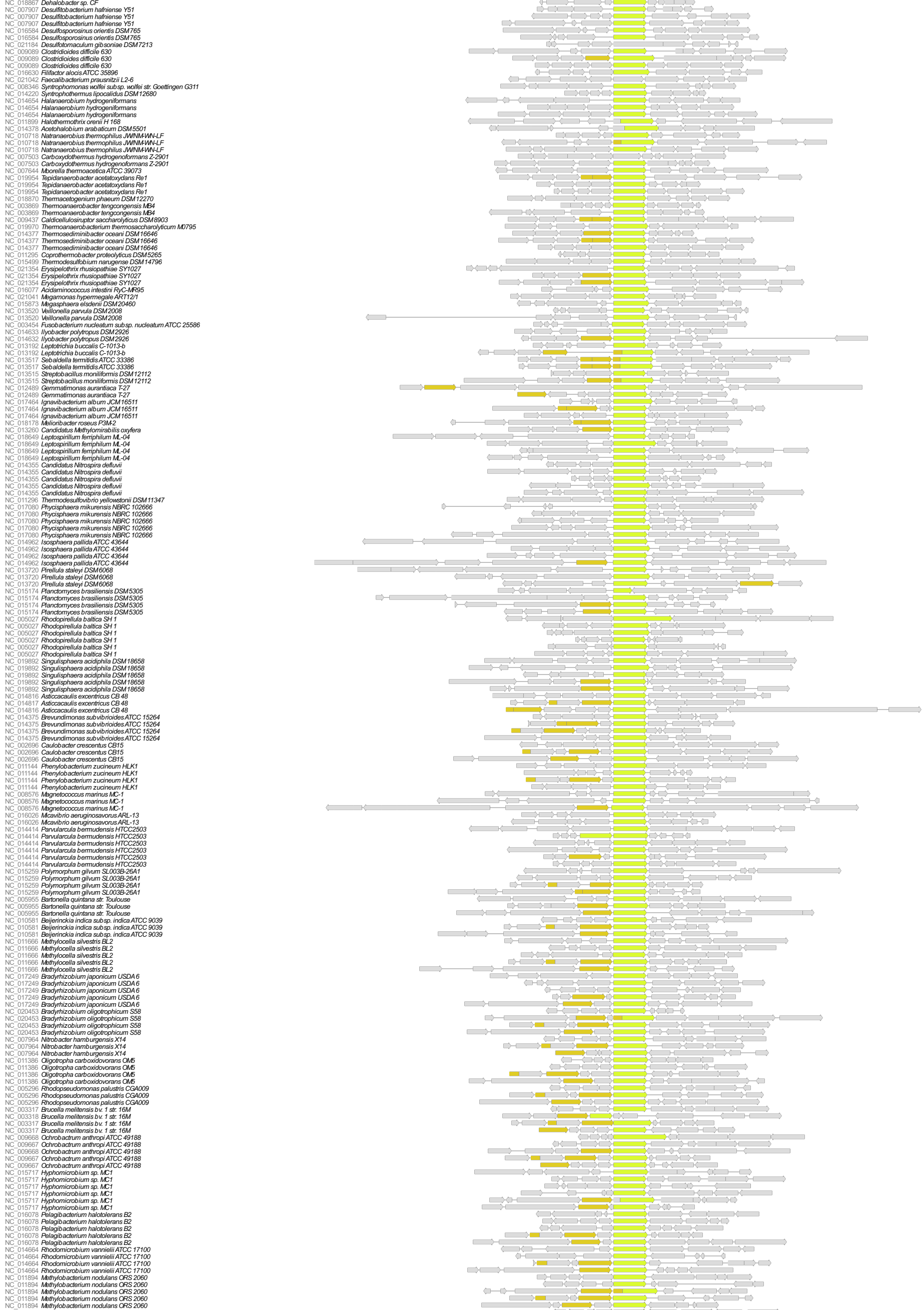
NC_016048 Oscillibacter valericigenes Sjm18-20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NC_007907 Desulfitobacterium hafniense Y51
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NC_016584 Desulfosporosinus orientis DSM765
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NC_021184 Desulfotomaculum gibsoniae DSM7213
NC_009089 Clostridioides difficile 630
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NC_009089 Clostridioides difficile 630
NC_016630 Filifactor alocis ATCC 35896
NC_021042 Faecalibacterium prausnitzii L2-6
NC_008346 Syntrophomonas wolfei subsp. wolfei str. Goettingen G311
NC_014220 Syntrophothermus lipocalidus DSM12680
NC_014654 Halanaerobium hydrogeniformans
NC_014654 Halanaerobium hydrogeniformans
NC_014654 Halanaerobium hydrogeniformans
NC_011899 Halothermothrix orenii H 168
NC_014378 Acetohalobium arabaticum DSM5501
NC_010718 Natranaerobius thermophilus JW/NM-WN-LF
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NC_007503 Carboxydothermus hydrogenoformans Z-2901
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NC_007644 Moorella thermoacetica ATCC 39073
NC_019954 Tepidanaerobacter acetatoxydans Re1
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NC_018870 Thermacetogenium phaeum DSM12270
NC_003869 Thermoanaerobacter tengcongensis MB4
NC_003869 Thermoanaerobacter tengcongensis MB4
NC_009437 Caldicellulosiruptor saccharolyticus DSM8903
NC_019970 Thermoanaerobacterium thermosaccharolyticum M0795
NC_014377 Thermosediminibacter oceani DSM16646
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NC_014377 Thermosediminibacter oceani DSM16646
NC_011295 Coprothermobacter proteolyticus DSM5265
NC_015499 Thermodesulfobium narugense DSM14796
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NC_016077 Acidaminococcus intestini RyC-MR95
NC_021041 Megamonas hypermegale ART12/1
NC_015873 Megasphaera elsdenii DSM20460
NC_013520 Veillonella parvula DSM2008
NC_013520 Veillonella parvula DSM2008
NC_003454 Fusobacterium nucleatum subsp. nucleatum ATCC 25586
NC_014633 Ilyobacter polytropus DSM2926
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NC_013192 Leptotrichia buccalis C-1013-b
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NC_013517 Sebaldella termitidis ATCC 33386
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NC_013515 Streptobacillus moniliformis DSM12112
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NC_012489 Gemmatimonas aurantiaca T-27
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NC_017464 Ignavibacterium album JCM16511
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NC_018178 Melioribacter roseus P3M-2
NC_013260 Candidatus Methylomirabilis oxyfera
NC_018649 Leptospirillum ferriphilum ML-04
NC_018649 Leptospirillum ferriphilum ML-04
NC_018649 Leptospirillum ferriphilum ML-04
NC_018649 Leptospirillum ferriphilum ML-04
NC_014355 Candidatus Nitrospira defluvii
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NC_011296 Thermodesulfovibrio yellowstonii DSM11347
NC_017080 Phycisphaera mikurensis NBRC 102666
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NC_017080 Phycisphaera mikurensis NBRC 102666
NC_014962 Isosphaera pallida ATCC 43644
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NC_015174 Planctomyces brasiliensis DSM5305
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NC_005027 Rhodopirellula baltica SH 1
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NC_002696 Caulobacter crescentus CB15
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NC_002696 Caulobacter crescentus CB15
NC_011144 Phenylobacterium zucineum HLK1
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NC_008576 Magnetococcus marinus MC-1
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NC_015259 Polymorphum gilvum SL003B-26A1
NC_015259 Polymorphum gilvum SL003B-26A1
NC_005955 Bartonella quintana str. Toulouse
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NC_005955 Bartonella quintana str. Toulouse
NC_010581 Beijerinckia indica subsp. indica ATCC 9039
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NC_011666 Methylocella silvestris BL2
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NC_011666 Methylocella silvestris BL2
NC_011666 Methylocella silvestris BL2
NC_017249 Bradyrhizobium japonicum USDA 6
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NC_020453 Bradyrhizobium oligotrophicum S58
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NC_007964 Nitrobacter hamburgensis X14
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NC_011386 Oligotropha carboxidovorans OM5
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NC_005296 Rhodopseudomonas palustris CGA009
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NC_003317 Brucella melitensis bv. 1 str. 16M
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NC_015717 Hyphomicrobium sp. MC1
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NC_015717 Hyphomicrobium sp. MC1
NC_016078 Pelagibacterium halotolerans B2
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NC_016078 Pelagibacterium halotolerans B2
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NC_014664 Rhodomicrobium vannielii ATCC 17100
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NC_014664 Rhodomicrobium vannielii ATCC 17100
NC_011894 Methylobacterium nodulans ORS 2060
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NC_011894 Methylobacterium nodulans ORS 2060
NC_011894 Methylobacterium nodulans ORS 2060
NC_011894 Methylobacterium nodulans ORS 2060

NC_018485 Methylocystis sp. SC2
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NC_018485 Methylocystis sp. SC2
NC_008254 Chelativorans sp. BNC1
NC_008254 Chelativorans sp. BNC1
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NC_002678 Mesorhizobium loti MAFF303099
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NC_008380 Rhizobium leguminosarum bv. viciae 3841
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NC_003047 Sinorhizobium meliloti 1021
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NC_007802 Jannaschia sp. CCS1
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NC_014625 Ketogulonicigenium vulgare Y25
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NC_023135 Leisingera methylohalidivorans DSM14336
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NC_023146 Leisingera methylohalidivorans DSM14336
NC_023135 Leisingera methylohalidivorans DSM14336
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NC_023135 Leisingera methylohalidivorans DSM14336
NC_020908 Octadecabacter arcticus 238
NC_020908 Octadecabacter arcticus 238
NC_020908 Octadecabacter arcticus 238
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NC_020908 Octadecabacter arcticus 238
NC_008687 Paracoccus denitrificans PD1222
NC_008688 Paracoccus denitrificans PD1222
NC_008686 Paracoccus denitrificans PD1222
NC_008686 Paracoccus denitrificans PD1222
NC_023137 Phaeobacter gallaeciensis DSM26640
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NC_023137 Phaeobacter gallaeciensis DSM26640
NC_016642 Pseudovibrio sp. FO-BEG1
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NC_016642 Pseudovibrio sp. FO-BEG1
NC_011963 Rhodobacter sphaeroides KD131
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NC_015730 Roseobacter litoralis Och 149
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NC_015730 Roseobacter litoralis Och 149
NC_015730 Roseobacter litoralis Och 149
NC_015730 Roseobacter litoralis Och 149
NC_003911 Ruegeria pomeroyi DSS-3
NC_003911 Ruegeria pomeroyi DSS-3
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NC_013209 Acetobacter pasteurianus IFO 3283-01
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NC_015178 Acidiphilium multivorum AIU301
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NC_010125 Gluconacetobacter diazotrophicus PA1 5
NC_010125 Gluconacetobacter diazotrophicus PA1 5
NC_010125 Gluconacetobacter diazotrophicus PA1 5
NC_019396 Gluconobacter oxydans H24
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NC_008343 Granulibacter bethesdensis CGDNIH1
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NC_019566 Candidatus Endolissoclinum faulkneri L2
NC_007626 Magnetospirillum magneticum AMB-1
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NC_011420 Rhodospirillum centenum SW
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NC_007797 Anaplasma phagocytophilum str. HZ
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NC_007797 Anaplasma phagocytophilum str. HZ
NC_007799 Ehrlichia chaffeensis str. Arkansas
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NC_007798 Neorickettsia sennetsu str. Miyayama
NC_007798 Neorickettsia sennetsu str. Miyayama
NC_010981 Wolbachia endosymbiont of Culex quinquefasciatus Pel
NC_010981 Wolbachia endosymbiont of Culex quinquefasciatus Pel
NC_012416 Wolbachia sp. wRi
NC_012416 Wolbachia sp. wRi
NC_015722 Candidatus Midichloria mitochondrii IricVA
NC_015722 Candidatus Midichloria mitochondrii IricVA
NC_010793 Orientia tsutsugamushi str. Ikeda
NC_003103 Rickettsia conorii str. Malish 7
NC_003103 Rickettsia conorii str. Malish 7
NC_000963 Rickettsia prowazekii str. Madrid E
NC_000963 Rickettsia prowazekii str. Madrid E
NC_015380 Candidatus Pelagibacter sp. IMCC9063
NC_015380 Candidatus Pelagibacter sp. IMCC9063
NC_014010 Candidatus Puniceispirillum marinum IMCC1322
NC_014010 Candidatus Puniceispirillum marinum IMCC1322
NC_014010 Candidatus Puniceispirillum marinum IMCC1322
NC_014010 Candidatus Puniceispirillum marinum IMCC1322
NC_007722 Erythrobacter litoralis HTCC2594
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NC_015580 Novosphingobium sp. PP1Y
NC_015580 Novosphingobium sp. PP1Y
NC_015580 Novosphingobium sp. PP1Y
NC_015580 Novosphingobium sp. PP1Y
NC_014007 Sphingobium japonicum UT26S
NC_014006 Sphingobium japonicum UT26S
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NC_014006 Sphingobium japonicum UT26S
NC_014006 Sphingobium japonicum UT26S
NC_009511 Sphingomonas wittichii RW1
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NC_009511 Sphingomonas wittichii RW1
NC_009507 Sphingomonas wittichii RW1
NC_009511 Sphingomonas wittichii RW1
NC_008048 Sphingopyxis alaskensis RB2256
NC_008048 Sphingopyxis alaskensis RB2256
NC_008048 Sphingopyxis alaskensis RB2256
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NC_008048 Sphingopyxis alaskensis RB2256
NC_013355 Zymomonas mobilis subsp. mobilis NCIMB 11163
NC_013355 Zymomonas mobilis subsp. mobilis NCIMB 11163
NC_013194 Candidatus Accumulibacter phosphatis clade IIA str. UW-1
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NC_014640 Achromobacter xylosoxidans A8
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NC_017964 Advenella kashmirensis WT001
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NC_010170 Bordetella petrii DSM12804
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NC_015458 Pusillimonas sp. T7-7
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NC_014914 Taylorella equigenitalis MCE9
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NC_014914 Taylorella equigenitalis MCE9
NC_007951 Burkholderia xenovorans LB400
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NC_022904 Pandoraea pnomenusa 3kgm
NC_022904 Pandoraea pnomenusa 3kgm
NC_022904 Pandoraea pnomenusa 3kgm
NC_009379 Polynucleobacter necessarius subsp. asymbioticus QLW-P1DMWA-1
NC_009379 Polynucleobacter necessarius subsp. asymbioticus QLW-P1DMWA-1
NC_003295 Ralstonia solanacearum GMI1000
NC_003296 Ralstonia solanacearum GMI1000
NC_003295 Ralstonia solanacearum GMI1000
NC_003295 Ralstonia solanacearum GMI1000
NC_015138 Acidovorax avenae subsp. avenae ATCC 19860
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NC_015138 Acidovorax avenae subsp. avenae ATCC 19860
NC_015422 Alicycliphilus denitrificans K601
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NC_015422 Alicycliphilus denitrificans K601
NC_022576 Candidatus Symbiobacter mobilis CR
NC_010935 Comamonas testosteroni CNB-1
NC_013446 Comamonas testosteroni CNB-2
NC_013446 Comamonas testosteroni CNB-2
NC_013446 Comamonas testosteroni CNB-2
NC_010002 Delftia acidovorans SPH-1
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NC_010002 Delftia acidovorans SPH-1
NC_007948 Polaromonas sp. JS666
NC_007948 Polaromonas sp. JS666
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NC_007948 Polaromonas sp. JS666
NC_007948 Polaromonas sp. JS666
NC_015677 Ramlibacter tataouinensis TTB310
NC_015677 Ramlibacter tataouinensis TTB310
NC_015677 Ramlibacter tataouinensis TTB310
NC_015677 Ramlibacter tataouinensis TTB310
NC_007908 Rhodoferax ferrireducens T118
NC_007908 Rhodoferax ferrireducens T118
NC_007908 Rhodoferax ferrireducens T118
NC_007908 Rhodoferax ferrireducens T118
NC_022234 Variovorax paradoxus B4
NC_022247 Variovorax paradoxus B4
NC_022247 Variovorax paradoxus B4
NC_022247 Variovorax paradoxus B4
NC_008786 Verminephrobacter eiseniae EF01-2
NC_008786 Verminephrobacter eiseniae EF01-2
NC_010524 Leptothrix cholodnii SP-6
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NC_010524 Leptothrix cholodnii SP-6
NC_008825 Methylibium petroleiphilum PM1
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NC_008825 Methylibium petroleiphilum PM1
NC_014497 Candidatus Zinderia insecticola CARI
NC_015856 Collimonas fungivorans Ter331
NC_015856 Collimonas fungivorans Ter331
NC_015856 Collimonas fungivorans Ter331
NC_014323 Herbaspirillum seropedicae SmR1
NC_014323 Herbaspirillum seropedicae SmR1
NC_014323 Herbaspirillum seropedicae SmR1
NC_009138 Herminiimonas arsenicoxydans
NC_009138 Herminiimonas arsenicoxydans
NC_009138 Herminiimonas arsenicoxydans
NC_009659 Janthinobacterium sp. Marseille
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NC_009659 Janthinobacterium sp. Marseille
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NC_009659 Janthinobacterium sp. Marseille
NC_009659 Janthinobacterium sp. Marseille
NC_017075 Rubrivivax gelatinosus IL144
NC_017075 Rubrivivax gelatinosus IL144
NC_014145 Thiomonas arsenitoxydans
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NC_014145 Thiomonas arsenitoxydans
NC_014394 Gallionella capsiferriformans ES-2
NC_014394 Gallionella capsiferriformans ES-2
NC_014394 Gallionella capsiferriformans ES-2
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NC_013959 Sideroxydans lithotrophicus ES-1
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NC_013959 Sideroxydans lithotrophicus ES-1
NC_022357 Sulfuricella denitrificans skB26
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NC_007404 Thiobacillus denitrificans ATCC 25259
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NC_020294 Candidatus Kinetoplastibacterium desouzaii TCC079E
NC_020294 Candidatus Kinetoplastibacterium desouzaii TCC079E
NC_007947 Methylobacillus flagellatus KT
NC_014207 Methylotenera versatilis 301
NC_012969 Methylovorus glucosetrophus SIP3-4
NC_005085 Chromobacterium violaceum ATCC 12472
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NC_005085 Chromobacterium violaceum ATCC 12472
NC_012559 Laribacter hongkongensis HLHK9
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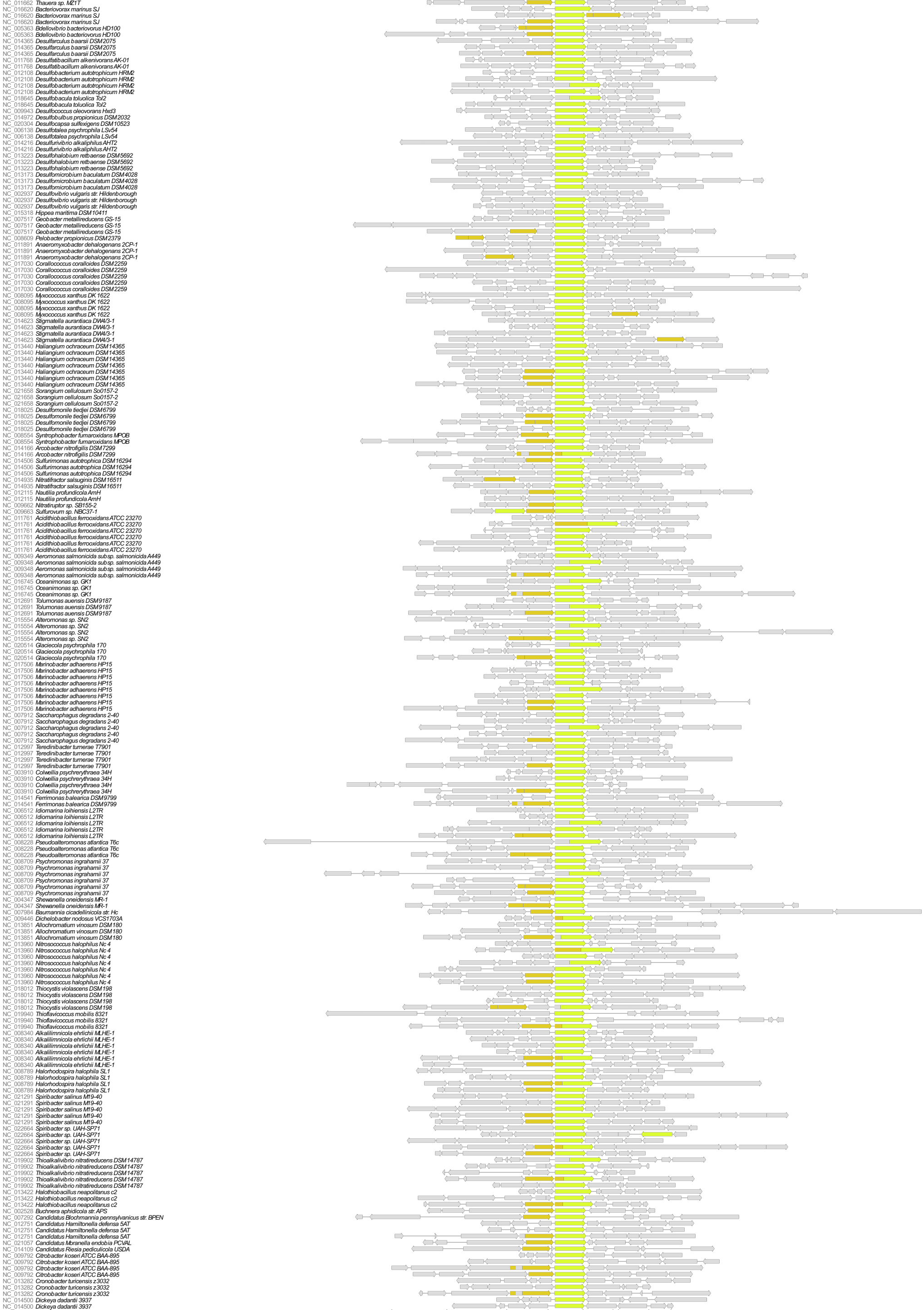
NC_012559 Laribacter hongkongensis HLHK9
NC_016002 Pseudogulbenkiania sp. NH8B
NC_016002 Pseudogulbenkiania sp. NH8B
NC_016002 Pseudogulbenkiania sp. NH8B
NC_003112 Neisseria meningitidis MC58
NC_003112 Neisseria meningitidis MC58
NC_003112 Neisseria meningitidis MC58
NC_015731 Nitrosomonas sp. Is79A3
NC_015731 Nitrosomonas sp. Is79A3
NC_015731 Nitrosomonas sp. Is79A3
NC_015731 Nitrosomonas sp. Is79A3
NC_007614 Nitrosospira multiformis ATCC 25196
NC_007614 Nitrosospira multiformis ATCC 25196
NC_007614 Nitrosospira multiformis ATCC 25196
NC_021885 Candidatus Profftella armatura
NC_006513 Aromatoleum aromaticum EbN1
NC_006513 Aromatoleum aromaticum EbN1
NC_006513 Aromatoleum aromaticum EbN1
NC_006513 Aromatoleum aromaticum EbN1
NC_020516 Azoarcus sp. KH32C
NC_020516 Azoarcus sp. KH32C
NC_007298 Dechloromonas aromatica RCB
NC_007298 Dechloromonas aromatica RCB
NC_016616 Dechlorosoma suillum PS
NC_016616 Dechlorosoma suillum PS
NC_016616 Dechlorosoma suillum PS
NC_011662 Thauera sp. MZ1T
NC_011662 Thauera sp. MZ1T
NC_011662 Thauera sp. MZ1T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NC_016620 Bacteriovorax marinus SJ
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NC_005363 Bdellovibrio bacteriovorus HD100
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NC_014365 Desulfarculus baarsii DSM2075
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NC_011768 Desulfatibacillum alkenivorans AK-01
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NC_012108 Desulfobacterium autotrophicum HRM2
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NC_018645 Desulfobacula toluolica Tol2
NC_018645 Desulfobacula toluolica Tol2
NC_009943 Desulfococcus oleovorans Hxd3
NC_014972 Desulfobulbus propionicus DSM2032
NC_020304 Desulfocapsa sulfexigens DSM10523
NC_006138 Desulfotalea psychrophila LSv54
NC_006138 Desulfotalea psychrophila LSv54
NC_014216 Desulfurivibrio alkaliphilus AHT2
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NC_013223 Desulfohalobium retbaense DSM5692
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NC_013173 Desulfomicrobium baculatum DSM4028
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NC_013173 Desulfomicrobium baculatum DSM4028
NC_002937 Desulfovibrio vulgaris str. Hildenborough
NC_002937 Desulfovibrio vulgaris str. Hildenborough
NC_002937 Desulfovibrio vulgaris str. Hildenborough
NC_015318 Hippea maritima DSM10411
NC_007517 Geobacter metallireducens GS-15
NC_007517 Geobacter metallireducens GS-15
NC_007517 Geobacter metallireducens GS-15
NC_008609 Pelobacter propionicus DSM2379
NC_011891 Anaeromyxobacter dehalogenans 2CP-1
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NC_014623 Stigmatella aurantiaca DW4/3-1
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NC_021658 Sorangium cellulosum So0157-2
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NC_018025 Desulfomonile tiedjei DSM6799
NC_018025 Desulfomonile tiedjei DSM6799
NC_018025 Desulfomonile tiedjei DSM6799
NC_018025 Desulfomonile tiedjei DSM6799
NC_008554 Syntrophobacter fumaroxidans MPOB
NC_008554 Syntrophobacter fumaroxidans MPOB
NC_014166 Arcobacter nitrofigilis DSM7299
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NC_014506 Sulfurimonas autotrophica DSM16294
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NC_014935 Nitratifractor salsuginis DSM16511
NC_014935 Nitratifractor salsuginis DSM16511
NC_012115 Nautilia profundicola AmH
NC_012115 Nautilia profundicola AmH
NC_009662 Nitratiruptor sp. SB155-2
NC_009663 Sulfurovum sp. NBC37-1
NC_011761 Acidithiobacillus ferrooxidans ATCC 23270
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NC_009349 Aeromonas salmonicida subsp. salmonicida A449
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NC_016745 Oceanimonas sp. GK1
NC_016745 Oceanimonas sp. GK1
NC_016745 Oceanimonas sp. GK1
NC_012691 Tolumonas auensis DSM9187
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NC_012691 Tolumonas auensis DSM9187
NC_015554 Alteromonas sp. SN2
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NC_015554 Alteromonas sp. SN2
NC_020514 Glaciecola psychrophila 170
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NC_017506 Marinobacter adhaerens HP15
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NC_007912 Saccharophagus degradans 2-40
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NC_012997 Teredinibacter turnerae T7901
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NC_014541 Ferrimonas balearica DSM9799
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NC_006512 Idiomarina loihiensis L2TR
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NC_006512 Idiomarina loihiensis L2TR
NC_006512 Idiomarina loihiensis L2TR
NC_008228 Pseudoalteromonas atlantica T6c
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NC_008228 Pseudoalteromonas atlantica T6c
NC_008709 Psychromonas ingrahamii 37
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NC_004347 Shewanella oneidensis MR-1
NC_004347 Shewanella oneidensis MR-1
NC_007984 Baumannia cicadellinicola str. Hc
NC_009446 Dichelobacter nodosus VCS1703A
NC_013851 Allochromatium vinosum DSM180
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NC_019940 Thioflavicoccus mobilis 8321
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NC_021291 Spiribacter salinus M19-40
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NC_013422 Halothiobacillus neapolitanus c2
NC_002528 Buchnera aphidicola str. APS
NC_007292 Candidatus Blochmannia pennsylvanicus str. BPEN
NC_012751 Candidatus Hamiltonella defensa 5AT
NC_012751 Candidatus Hamiltonella defensa 5AT
NC_012751 Candidatus Hamiltonella defensa 5AT
NC_021057 Candidatus Moranella endobia PCVAL
NC_014109 Candidatus Riesia pediculicola USDA
NC_009792 Citrobacter koseri ATCC BAA-895
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NC_009792 Citrobacter koseri ATCC BAA-895
NC_013282 Cronobacter turicensis z3032
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NC_013282 Cronobacter turicensis z3032
NC_014500 Dickeya dadantii 3937
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NC_014500 Dickeya dadantii 3937
NC_012779 Edwardsiella ictaluri 93-146
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NC_014121 Enterobacter cloacae subsp. cloacae ATCC 13047
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NC_002695 Escherichia coli O157:H7 str. Sakai
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NC_000913 Escherichia coli str. K-12 substr. MG1655
NC_011283 Klebsiella pneumoniae 342
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NC_020418 Morganella morganii subsp. morganii KT
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NC_014837 Pantoea sp. At-9b
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NC_005126 Photorhabdus luminescens subsp. laumondii TTO1
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NC_003197 Salmonella enterica subsp. enterica serovar Typhimurium str. LT2
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NC_021659 Serratia plymuthica S13
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NC_022912 Shigella dysenteriae 1617
NC_022912 Shigella dysenteriae 1617
NC_022912 Shigella dysenteriae 1617
NC_007712 Sodalis glossinidius str. 'morsitans'
NC_007712 Sodalis glossinidius str. 'morsitans'
NC_007712 Sodalis glossinidius str. 'morsitans'
NC_016893 Wigglesworthia glossinidia endosymbiont of Glossina morsitans morsitans (Yale colony)
NC_014228 Xenorhabdus nematophila ATCC 19061
NC_014228 Xenorhabdus nematophila ATCC 19061
NC_014228 Xenorhabdus nematophila ATCC 19061
NC_003143 Yersinia pestis CO92
NC_003143 Yersinia pestis CO92
NC_003143 Yersinia pestis CO92
NC_018419 secondary endosymbiont of Ctenarytaina eucalypti
NC_018420 secondary endosymbiont of Heteropsylla cubana
NC_009727 Coxiella burnetii Dugway 5J108-111
NC_020521 Legionella pneumophila subsp. pneumophila LPE509
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NC_020521 Legionella pneumophila subsp. pneumophila LPE509
NC_020521 Legionella pneumophila subsp. pneumophila LPE509
NC_020521 Legionella pneumophila subsp. pneumophila LPE509
NC_002977 Methylococcus capsulatus str. Bath
NC_002977 Methylococcus capsulatus str. Bath
NC_016112 Methylomicrobium alcaliphilum 20Z
NC_016112 Methylomicrobium alcaliphilum 20Z
NC_016112 Methylomicrobium alcaliphilum 20Z
NC_016112 Methylomicrobium alcaliphilum 20Z
NC_015572 Methylomonas methanica MC09
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NC_015572 Methylomonas methanica MC09
NC_008260 Alcanivorax borkumensis SK2
NC_008260 Alcanivorax borkumensis SK2
NC_008260 Alcanivorax borkumensis SK2
NC_008260 Alcanivorax borkumensis SK2
NC_013166 Kangiella koreensis DSM16069
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NC_013166 Kangiella koreensis DSM16069
NC_007645 Hahella chejuensis KCTC 2396
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NC_020888 Thalassolituus oleivorans MIL-1
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NC_018690 Actinobacillus suis H91-0380
NC_018690 Actinobacillus suis H91-0380
NC_018690 Actinobacillus suis H91-0380
NC_017846 Aggregatibacter actinomycetemcomitans D7S-1
NC_017846 Aggregatibacter actinomycetemcomitans D7S-1
NC_020515 Bibersteinia trehalosi USDA-ARS-USMARC-192
NC_020515 Bibersteinia trehalosi USDA-ARS-USMARC-192
NC_015460 Gallibacterium anatis UMN179
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NC_000907 Haemophilus influenzae Rd KW20
NC_000907 Haemophilus influenzae Rd KW20
NC_021082 Mannheimia haemolytica M42548
NC_021082 Mannheimia haemolytica M42548
NC_002663 Pasteurella multocida subsp. multocida str. Pm70
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NC_009085 Acinetobacter baumannii ATCC 17978
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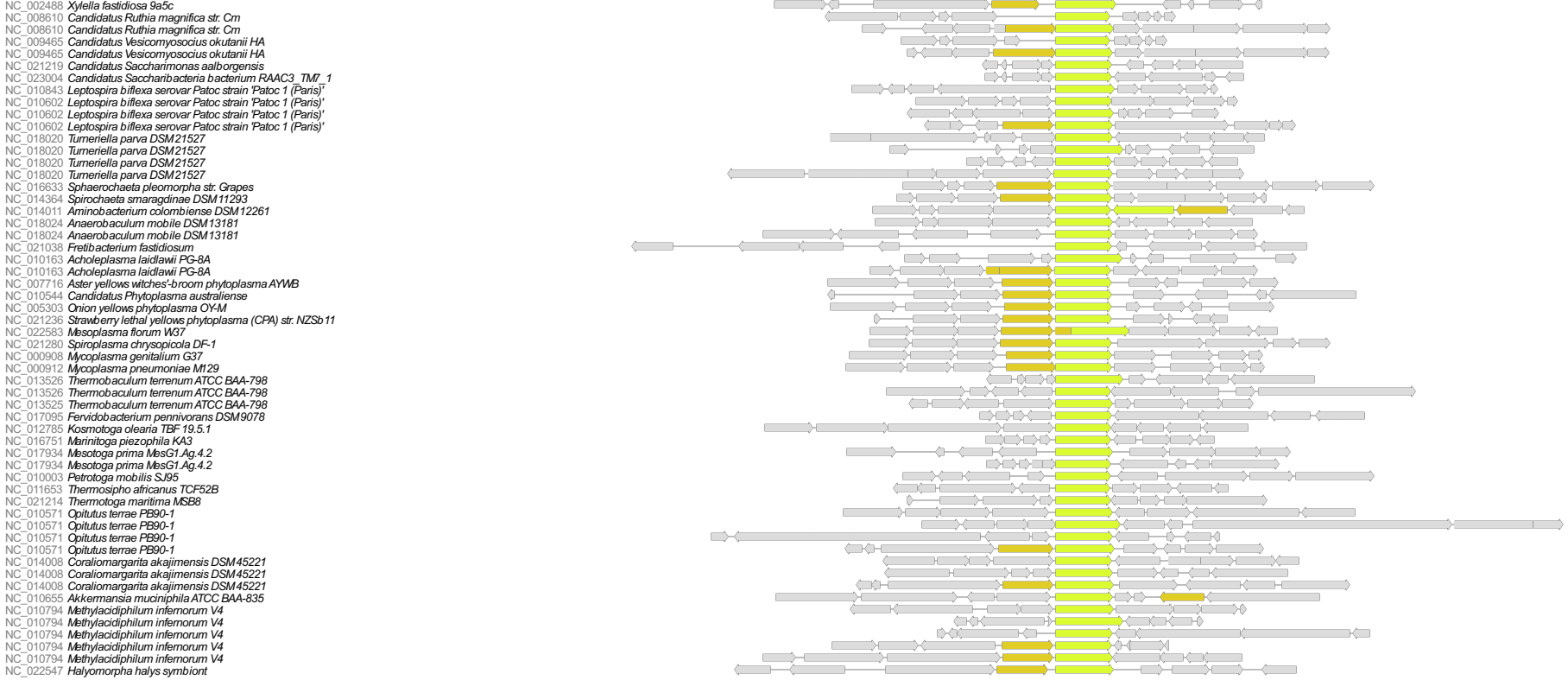
NC_014147 Moraxella catarrhalis RH4
NC_021661 Psychrobacter sp. G
NC_021661 Psychrobacter sp. G
NC_021661 Psychrobacter sp. G
NC_021661 Psychrobacter sp. G
NC_021661 Psychrobacter sp. G
NC_012560 Azotobacter vinelandii DJ
NC_012560 Azotobacter vinelandii DJ
NC_012560 Azotobacter vinelandii DJ
NC_010995 Cellvibrio japonicus Ueda107
NC_010995 Cellvibrio japonicus Ueda107
NC_010995 Cellvibrio japonicus Ueda107
NC_002516 Pseudomonas aeruginosa PAO1
NC_002516 Pseudomonas aeruginosa PAO1
NC_002516 Pseudomonas aeruginosa PAO1
NC_002516 Pseudomonas aeruginosa PAO1
NC_002516 Pseudomonas aeruginosa PAO1
NC_018868 Simiduia agarivorans SA1 = DSM21679
NC_018868 Simiduia agarivorans SA1 = DSM21679
NC_018868 Simiduia agarivorans SA1 = DSM21679
NC_018868 Simiduia agarivorans SA1 = DSM21679
NC_006570 Francisella tularensis subsp. tularensis SCHU S4
NC_006570 Francisella tularensis subsp. tularensis SCHU S4
NC_006570 Francisella tularensis subsp. tularensis SCHU S4
NC_021917 Cycloclasticus zancles 7-ME
NC_021917 Cycloclasticus zancles 7-ME
NC_021917 Cycloclasticus zancles 7-ME
NC_021917 Cycloclasticus zancles 7-ME
NC_021917 Cycloclasticus zancles 7-ME
NC_021917 Cycloclasticus zancles 7-ME
NC_021917 Cycloclasticus zancles 7-ME
NC_017857 Methylophaga nitratireducenticrescens
NC_017857 Methylophaga nitratireducenticrescens
NC_015581 Thioalkalimicrobium cyclicum ALM1
NC_015581 Thioalkalimicrobium cyclicum ALM1
NC_015581 Thioalkalimicrobium cyclicum ALM1
NC_007520 Thiomicrospira crunogena XCL-2
NC_007520 Thiomicrospira crunogena XCL-2
NC_007520 Thiomicrospira crunogena XCL-2
NC_011312 Aliivibrio salmonicida LFI1238
NC_011312 Aliivibrio salmonicida LFI1238
NC_011312 Aliivibrio salmonicida LFI1238
NC_011312 Aliivibrio salmonicida LFI1238
NC_022223 Listonella anguillarum M3
NC_022223 Listonella anguillarum M3
NC_022223 Listonella anguillarum M3
NC_006370 Photobacterium profundum SS9
NC_006370 Photobacterium profundum SS9
NC_006370 Photobacterium profundum SS9
NC_006370 Photobacterium profundum SS9
NC_006370 Photobacterium profundum SS9
NC_002505 Vibrio cholerae O1 biovar El Tor str. N16961
NC_002505 Vibrio cholerae O1 biovar El Tor str. N16961
NC_002505 Vibrio cholerae O1 biovar El Tor str. N16961
NC_002505 Vibrio cholerae O1 biovar El Tor str. N16961
NC_017033 Frateuria aurantia DSM6220
NC_017033 Frateuria aurantia DSM6220
NC_017033 Frateuria aurantia DSM6220
NC_017033 Frateuria aurantia DSM6220
NC_016147 Pseudoxanthomonas spadix BD-a59
NC_016147 Pseudoxanthomonas spadix BD-a59
NC_016147 Pseudoxanthomonas spadix BD-a59
NC_020541 Rhodanobacter denitrificans
NC_020541 Rhodanobacter denitrificans
NC_020541 Rhodanobacter denitrificans
NC_020541 Rhodanobacter denitrificans
NC_020541 Rhodanobacter denitrificans
NC_020541 Rhodanobacter denitrificans
NC_020541 Rhodanobacter denitrificans
NC_010943 Stenotrophomonas maltophilia K279a
NC_010943 Stenotrophomonas maltophilia K279a
NC_010943 Stenotrophomonas maltophilia K279a
NC_010717 Xanthomonas oryzae pv. oryzae PXO99A
NC_010717 Xanthomonas oryzae pv. oryzae PXO99A
NC_010717 Xanthomonas oryzae pv. oryzae PXO99A
NC_002488 Xylella fastidiosa 9a5c



COG1249 Pyruvate/2-oxoglutarate dehydrogenase complex, dihydrolipoamide dehydrogenase (E3) component or related enzyme
COG0508 Pyruvate/2-oxoglutarate dehydrogenase complex, dihydrolipoamide acyltransferase (E2) component