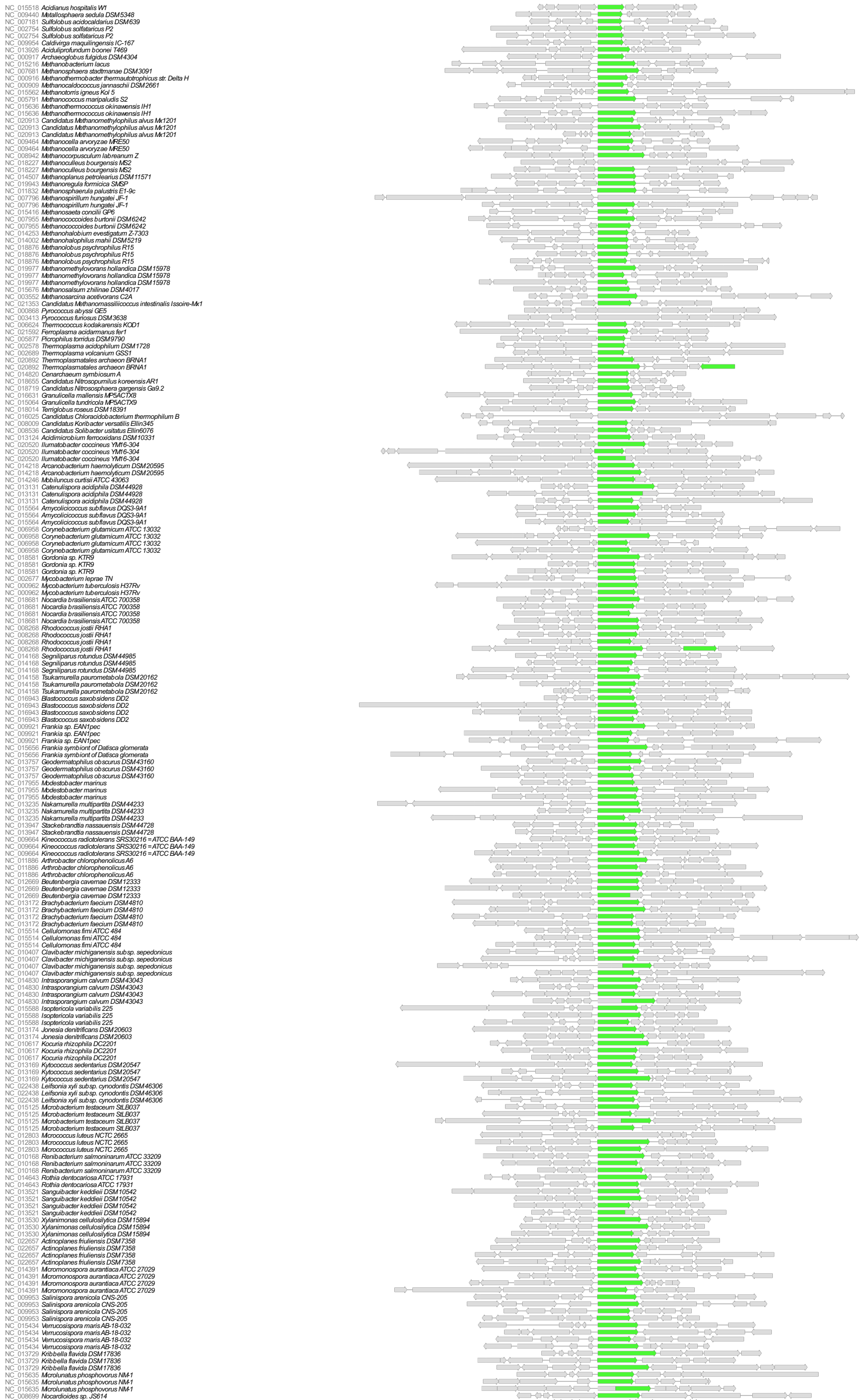
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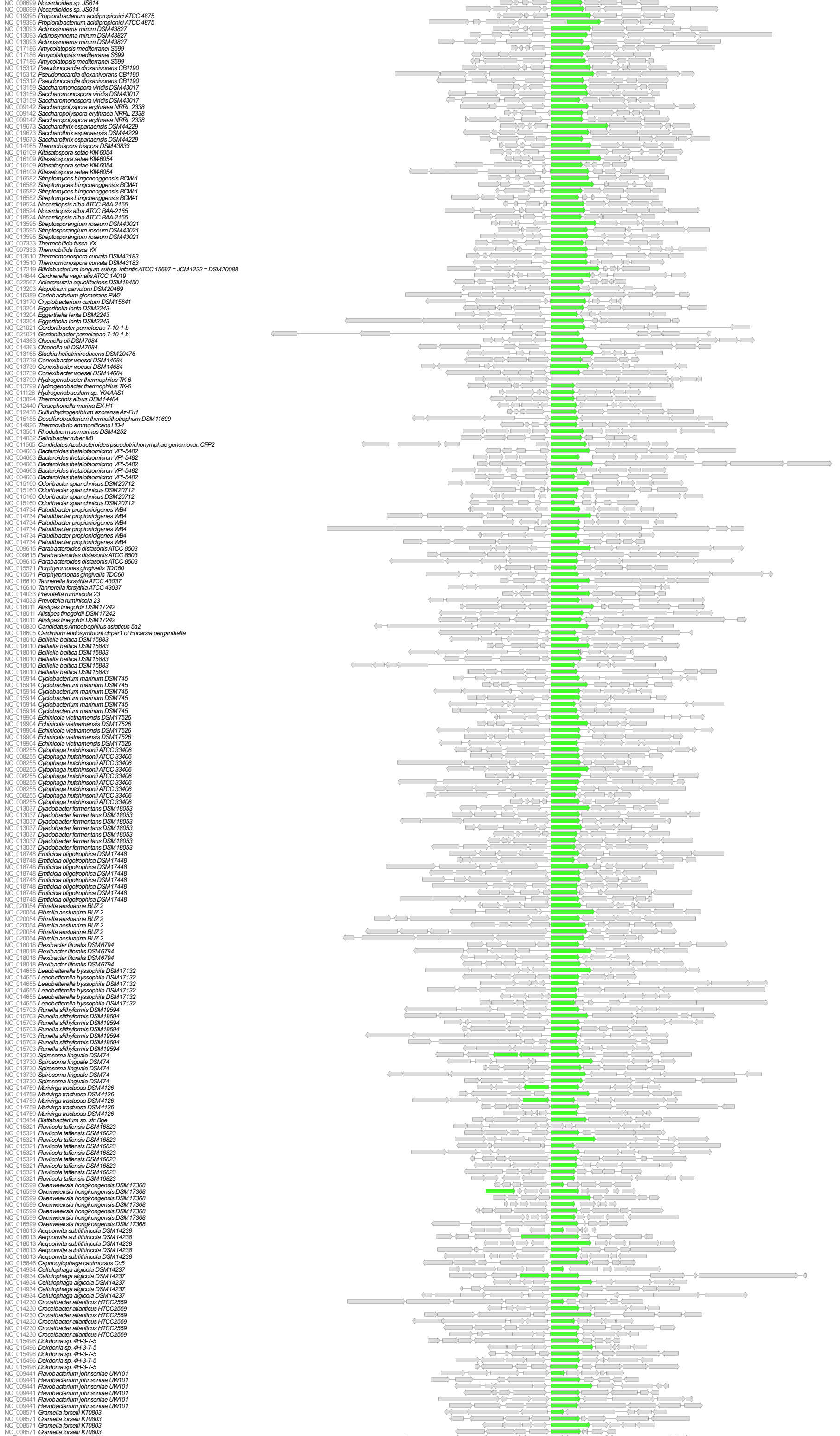
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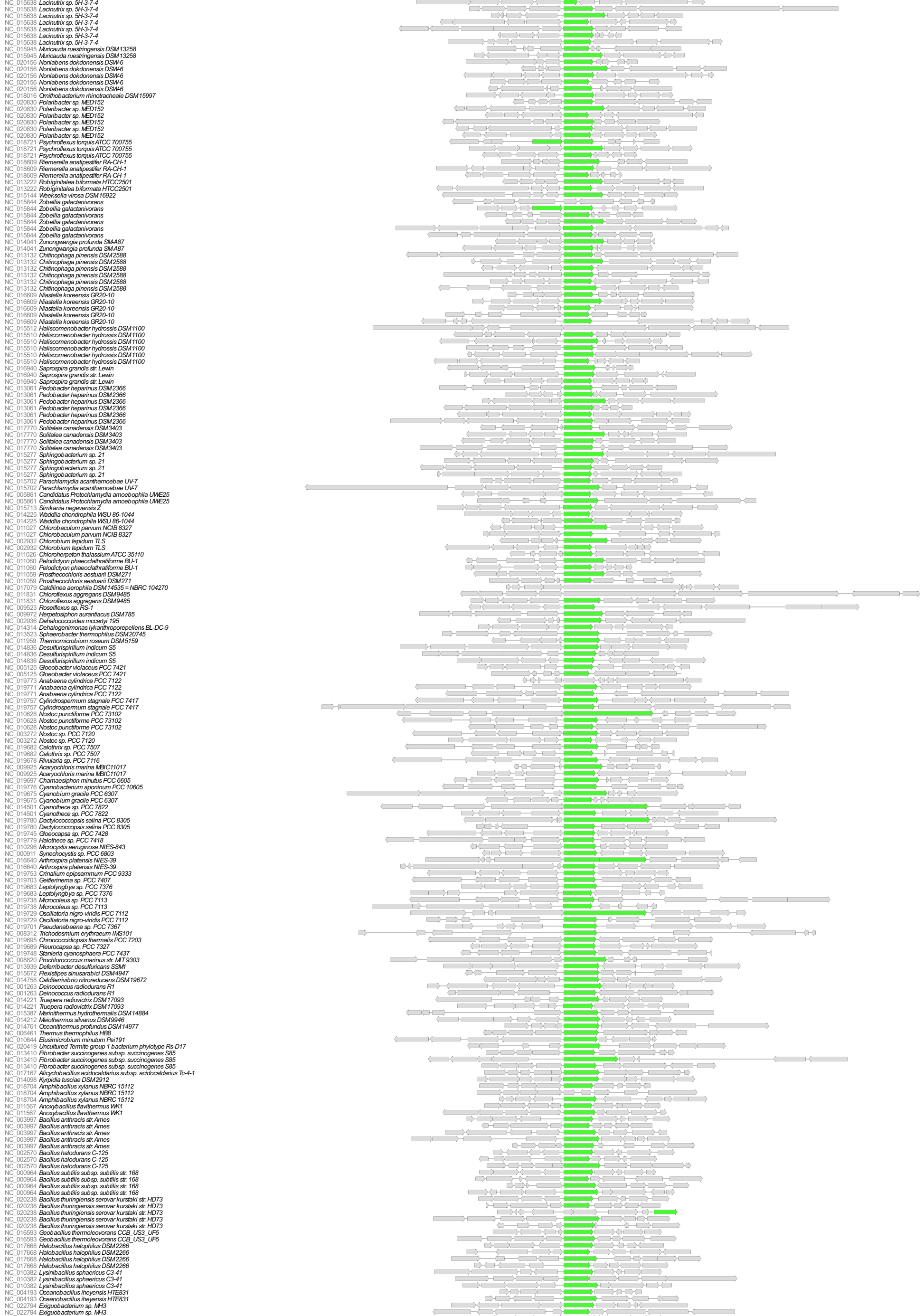
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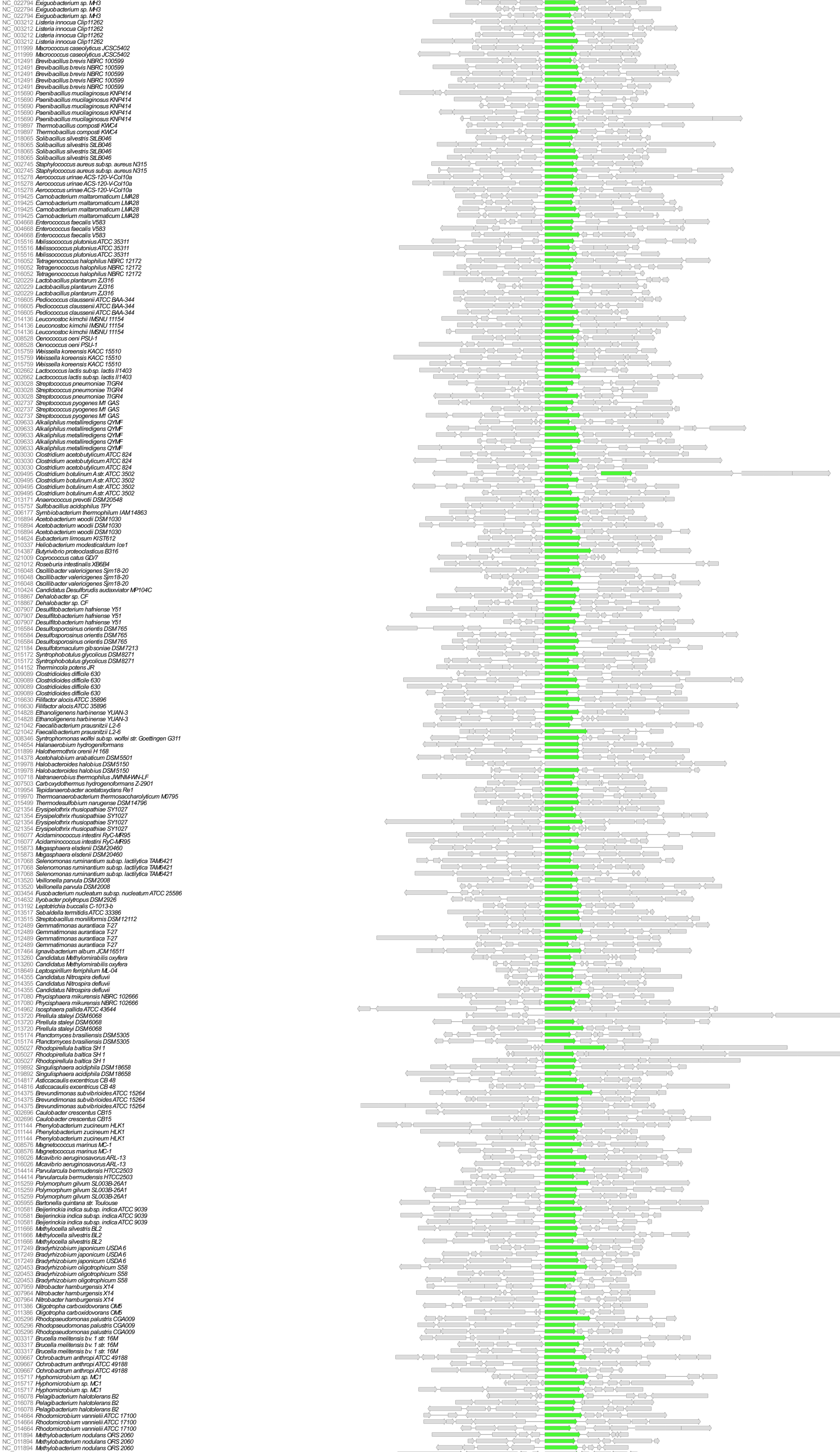
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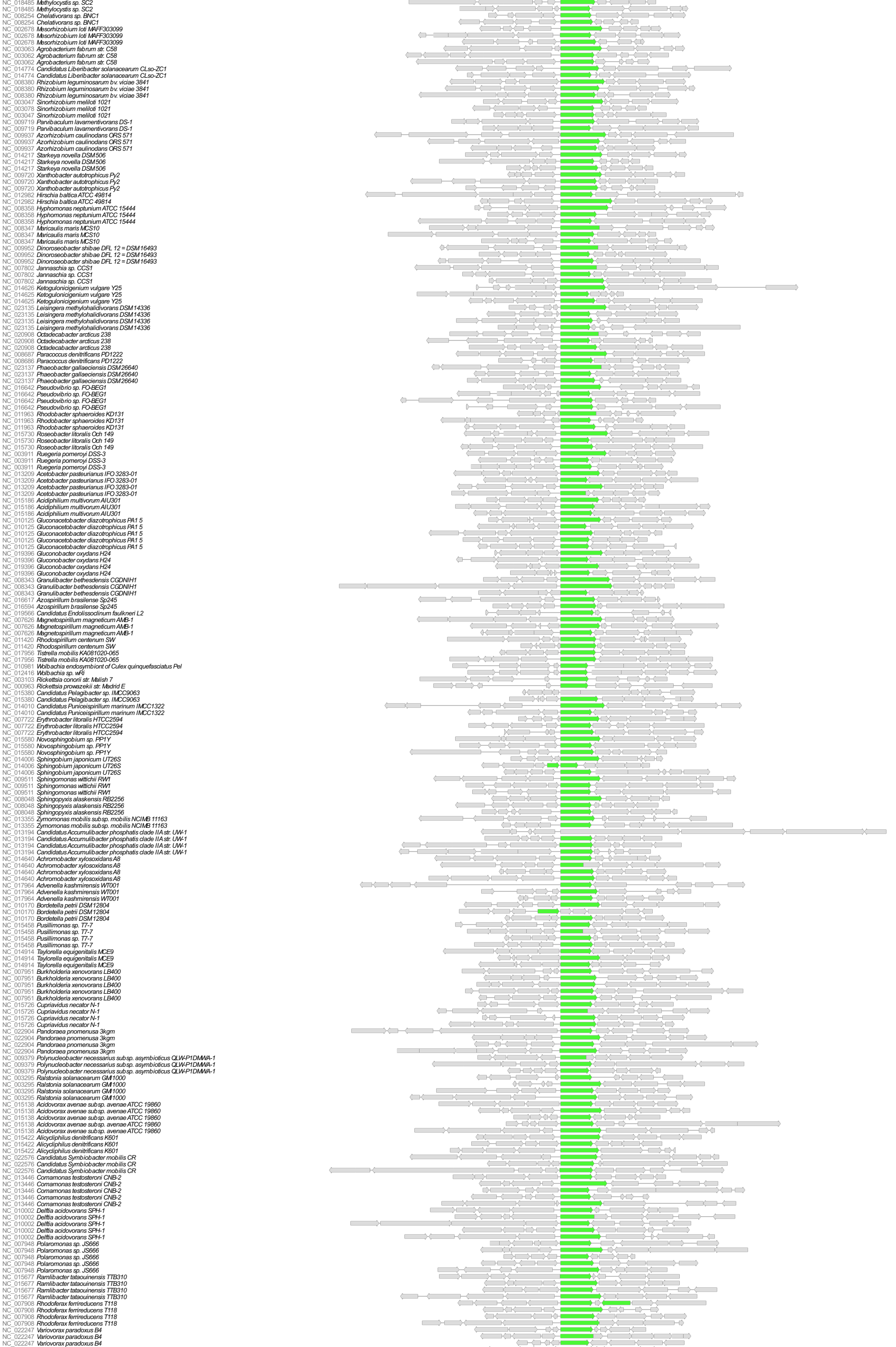
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NC_008343 Granulibacter bethesdensis CGDNIH1
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NC_016617 Azospirillum brasilense Sp245
NC_016594 Azospirillum brasilense Sp245
NC_019566 Candidatus Endolissoclinum faulkneri L2
NC_007626 Magnetospirillum magneticum AMB-1
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NC_007626 Magnetospirillum magneticum AMB-1
NC_011420 Rhodospirillum centenum SW
NC_011420 Rhodospirillum centenum SW
NC_017956 Tistrella mobilis KA081020-065
NC_017956 Tistrella mobilis KA081020-065
NC_010981 Wolbachia endosymbiont of Culex quinquefasciatus Pel
NC_012416 Wolbachia sp. wRi
NC_003103 Rickettsia conorii str. Malish 7
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_007722 Erythrobacter litoralis HTCC2594
NC_007722 Erythrobacter litoralis HTCC2594
NC_007722 Erythrobacter litoralis HTCC2594
NC_015580 Novosphingobium sp. PP1Y
NC_015580 Novosphingobium sp. PP1Y
NC_015580 Novosphingobium sp. PP1Y
NC_014006 Sphingobium japonicum UT26S
NC_014006 Sphingobium japonicum UT26S
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NC_009511 Sphingomonas wittichii RW1
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NC_009511 Sphingomonas wittichii RW1
NC_008048 Sphingopyxis alaskensis RB2256
NC_008048 Sphingopyxis alaskensis RB2256
NC_008048 Sphingopyxis alaskensis RB2256
NC_013355 Zymomonas mobilis subsp. mobilis NCIMB 11163
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NC_013194 Candidatus Accumulibacter phosphatis clade IIA str. UW-1
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NC_017964 Advenella kashmirensis WT001
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NC_017964 Advenella kashmirensis WT001
NC_010170 Bordetella petrii DSM12804
NC_010170 Bordetella petrii DSM12804
NC_010170 Bordetella petrii DSM12804
NC_015458 Pusillimonas sp. T7-7
NC_015458 Pusillimonas sp. T7-7
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NC_003295 Ralstonia solanacearum GMI1000
NC_003295 Ralstonia solanacearum GMI1000
NC_015138 Acidovorax avenae subsp. avenae ATCC 19860
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NC_015422 Alicycliphilus denitrificans K601
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NC_022576 Candidatus Symbiobacter mobilis CR
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NC_013446 Comamonas testosteroni CNB-2
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NC_010002 Delftia acidovorans SPH-1
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NC_015677 Ramlibacter tataouinensis TTB310
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NC_015677 Ramlibacter tataouinensis TTB310
NC_007908 Rhodoferax ferrireducens T118
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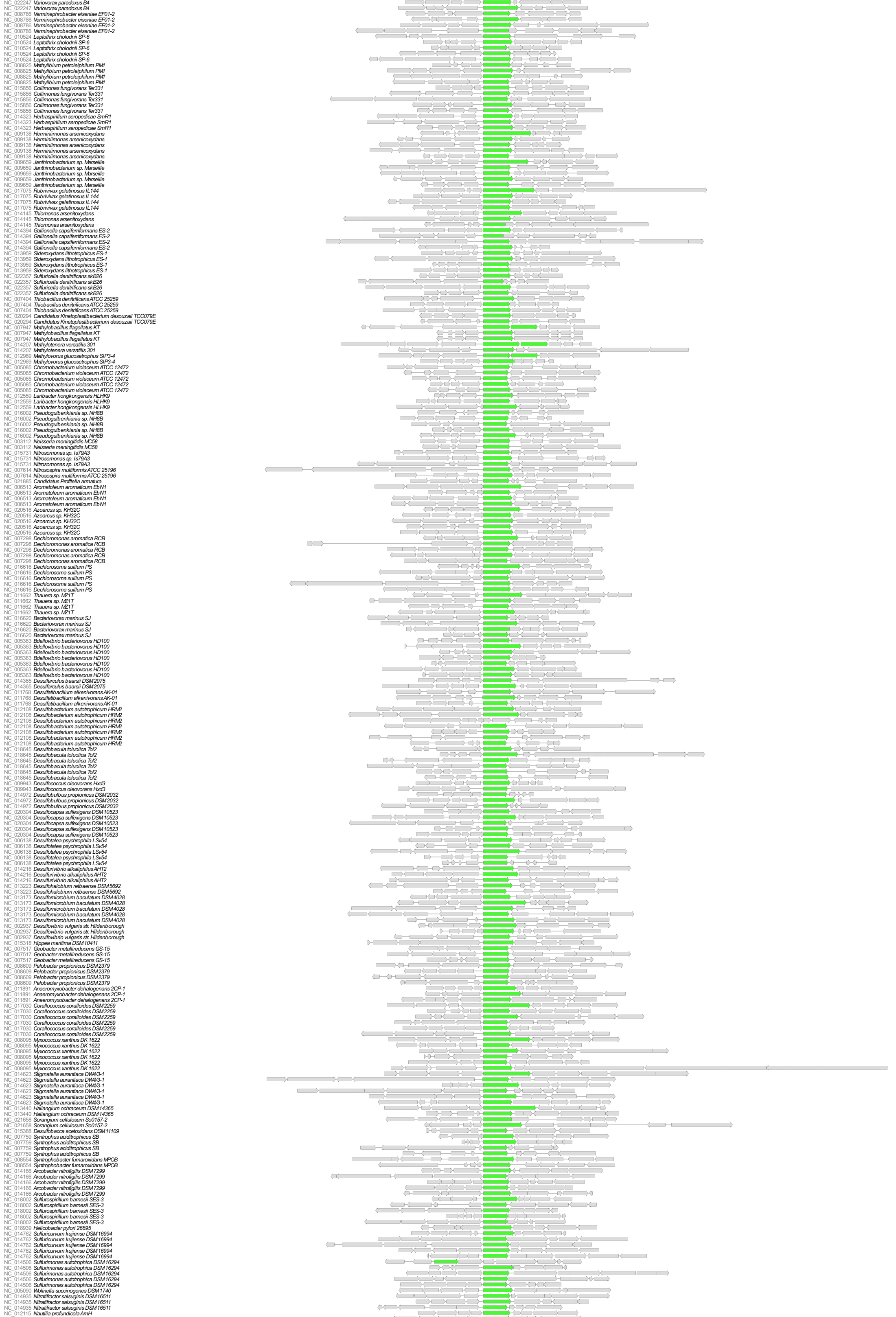
NC_022247 Variovorax paradoxus B4
NC_022247 Variovorax paradoxus B4
NC_022247 Variovorax paradoxus B4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NC_014323 Herbaspirillum seropedicae SmR1
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NC_009659 Janthinobacterium sp. Marseille
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NC_017075 Rubrivivax gelatinosus IL144
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NC_014145 Thiomonas arsenitoxydans
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NC_014394 Gallionella capsiferriformans ES-2
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NC_020294 Candidatus Kinetoplastibacterium desouzaii TCC079E
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NC_007947 Methylobacillus flagellatus KT
NC_014207 Methylotenera versatilis 301
NC_014207 Methylotenera versatilis 301
NC_012969 Methylovorus glucosetrophus SIP3-4
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NC_005085 Chromobacterium violaceum ATCC 12472
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NC_012559 Laribacter hongkongensis HLHK9
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NC_016002 Pseudogulbenkiania sp. NH8B
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NC_003112 Neisseria meningitidis MC58
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NC_015731 Nitrosomonas sp. Is79A3
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NC_007614 Nitrosospira multiformis ATCC 25196
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NC_021885 Candidatus Profftella armatura
NC_006513 Aromatoleum aromaticum EbN1
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NC_020516 Azoarcus sp. KH32C
NC_007298 Dechloromonas aromatica RCB
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NC_020304 Desulfocapsa sulfexigens DSM10523
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NC_008609 Pelobacter propionicus DSM2379
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NC_015388 Desulfobacca acetoxidans DSM11109
NC_007759 Syntrophus aciditrophicus SB
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NC_008554 Syntrophobacter fumaroxidans MPOB
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NC_014935 Nitratifractor salsuginis DSM16511
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NC_012115 Nautilia profundicola AmH

NC_009662 Nitratiruptor sp. SB155-2
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NC_004347 Shewanella oneidensis MR-1
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NC_007984 Baumannia cicadellinicola str. Hc
NC_009446 Dichelobacter nodosus VCS1703A
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NC_013851 Allochromatium vinosum DSM180
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NC_018012 Thiocystis violascens DSM198
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NC_022664 Spiribacter sp. UAH-SP71
NC_019902 Thioalkalivibrio nitratireducens DSM14787
NC_019902 Thioalkalivibrio nitratireducens DSM14787
NC_019902 Thioalkalivibrio nitratireducens DSM14787
NC_013422 Halothiobacillus neapolitanus c2
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_012751 Candidatus Hamiltonella defensa 5AT
NC_021057 Candidatus Moranella endobia PCVAL
NC_009792 Citrobacter koseri ATCC BAA-895
NC_009792 Citrobacter koseri ATCC BAA-895
NC_009792 Citrobacter koseri ATCC BAA-895
NC_009792 Citrobacter koseri ATCC BAA-895
NC_013282 Cronobacter turicensis z3032
NC_013282 Cronobacter turicensis z3032
NC_013282 Cronobacter turicensis z3032
NC_013282 Cronobacter turicensis z3032
NC_014500 Dickeya dadantii 3937
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NC_014500 Dickeya dadantii 3937
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NC_014500 Dickeya dadantii 3937
NC_012779 Edwardsiella ictaluri 93-146
NC_012779 Edwardsiella ictaluri 93-146
NC_012779 Edwardsiella ictaluri 93-146
NC_012779 Edwardsiella ictaluri 93-146
NC_012779 Edwardsiella ictaluri 93-146
NC_014121 Enterobacter cloacae subsp. cloacae ATCC 13047
NC_014121 Enterobacter cloacae subsp. cloacae ATCC 13047
NC_014121 Enterobacter cloacae subsp. cloacae ATCC 13047
NC_014121 Enterobacter cloacae subsp. cloacae ATCC 13047
NC_014121 Enterobacter cloacae subsp. cloacae ATCC 13047
NC_013971 Erwinia amylovora ATCC 49946
NC_013971 Erwinia amylovora ATCC 49946
NC_013971 Erwinia amylovora ATCC 49946
NC_013971 Erwinia amylovora ATCC 49946
NC_002695 Escherichia coli O157:H7 str. Sakai
NC_002695 Escherichia coli O157:H7 str. Sakai
NC_002695 Escherichia coli O157:H7 str. Sakai
NC_002695 Escherichia coli O157:H7 str. Sakai
NC_002695 Escherichia coli O157:H7 str. Sakai
NC_000913 Escherichia coli str. K-12 substr. MG1655
NC_000913 Escherichia coli str. K-12 substr. MG1655
NC_000913 Escherichia coli str. K-12 substr. MG1655
NC_000913 Escherichia coli str. K-12 substr. MG1655
NC_000913 Escherichia coli str. K-12 substr. MG1655
NC_011283 Klebsiella pneumoniae 342
NC_011283 Klebsiella pneumoniae 342
NC_011283 Klebsiella pneumoniae 342
NC_011283 Klebsiella pneumoniae 342
NC_011283 Klebsiella pneumoniae 342
NC_020418 Morganella morganii subsp. morganii KT
NC_020418 Morganella morganii subsp. morganii KT
NC_020418 Morganella morganii subsp. morganii KT
NC_020418 Morganella morganii subsp. morganii KT
NC_020418 Morganella morganii subsp. morganii KT
NC_014837 Pantoea sp. At-9b
NC_014837 Pantoea sp. At-9b
NC_014837 Pantoea sp. At-9b
NC_014837 Pantoea sp. At-9b

NC_014837 Pantoea sp. At-9b
NC_017845 Pectobacterium sp. SCC3193
NC_017845 Pectobacterium sp. SCC3193
NC_017845 Pectobacterium sp. SCC3193
NC_017845 Pectobacterium sp. SCC3193
NC_017845 Pectobacterium sp. SCC3193
NC_005126 Photorhabdus luminescens subsp. laumondii TTO1
NC_005126 Photorhabdus luminescens subsp. laumondii TTO1
NC_005126 Photorhabdus luminescens subsp. laumondii TTO1
NC_005126 Photorhabdus luminescens subsp. laumondii TTO1
NC_010554 Proteus mirabilis HI4320
NC_010554 Proteus mirabilis HI4320
NC_010554 Proteus mirabilis HI4320
NC_010554 Proteus mirabilis HI4320
NC_010554 Proteus mirabilis HI4320
NC_017731 Providencia stuartii MRSN 2154
NC_017731 Providencia stuartii MRSN 2154
NC_017731 Providencia stuartii MRSN 2154
NC_017731 Providencia stuartii MRSN 2154
NC_017731 Providencia stuartii MRSN 2154
NC_015061 Rahnella sp. Y9602
NC_015061 Rahnella sp. Y9602
NC_015061 Rahnella sp. Y9602
NC_015061 Rahnella sp. Y9602
NC_015061 Rahnella sp. Y9602
NC_021066 Raoultella ornithinolytica B6
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NC_021066 Raoultella ornithinolytica B6
NC_021066 Raoultella ornithinolytica B6
NC_021066 Raoultella ornithinolytica B6
NC_003197 Salmonella enterica subsp. enterica serovar Typhimurium str. LT2
NC_003197 Salmonella enterica subsp. enterica serovar Typhimurium str. LT2
NC_003197 Salmonella enterica subsp. enterica serovar Typhimurium str. LT2
NC_003197 Salmonella enterica subsp. enterica serovar Typhimurium str. LT2
NC_003197 Salmonella enterica subsp. enterica serovar Typhimurium str. LT2
NC_021659 Serratia plymuthica S13
NC_021659 Serratia plymuthica S13
NC_021659 Serratia plymuthica S13
NC_021659 Serratia plymuthica S13
NC_021659 Serratia plymuthica S13
NC_022912 Shigella dysenteriae 1617
NC_022912 Shigella dysenteriae 1617
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_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_014228 Xenorhabdus nematophila ATCC 19061
NC_003143 Yersinia pestis CO92
NC_003143 Yersinia pestis CO92
NC_003143 Yersinia pestis CO92
NC_003143 Yersinia pestis CO92
NC_018419 secondary endosymbiont of Ctenarytaina eucalypti
NC_018419 secondary endosymbiont of Ctenarytaina eucalypti
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
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_016112 Methylomicrobium alcaliphilum 20Z
NC_015572 Methylomonas methanica MC09
NC_015572 Methylomonas methanica MC09
NC_015572 Methylomonas methanica MC09
NC_015572 Methylomonas methanica MC09
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_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_007645 Hahella chejuensis KCTC 2396
NC_007963 Chromohalobacter salexigens DSM3043
NC_007963 Chromohalobacter salexigens DSM3043
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NC_014532 Halomonas elongata DSM2581
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NC_009654 Marinomonas sp. MWYL1
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NC_009654 Marinomonas sp. MWYL1
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NC_009654 Marinomonas sp. MWYL1
NC_020888 Thalassolituus oleivorans MIL-1
NC_020888 Thalassolituus oleivorans MIL-1
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NC_020888 Thalassolituus oleivorans MIL-1
NC_018690 Actinobacillus suis H91-0380
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NC_018690 Actinobacillus suis H91-0380
NC_017846 Aggregatibacter actinomycetemcomitans D7S-1
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_020515 Bibersteinia trehalosi USDA-ARS-USMARC-192
NC_015460 Gallibacterium anatis UMN179
NC_015460 Gallibacterium anatis UMN179
NC_015460 Gallibacterium anatis UMN179
NC_000907 Haemophilus influenzae Rd KW20
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NC_000907 Haemophilus influenzae Rd KW20
NC_021082 Mannheimia haemolytica M42548
NC_021082 Mannheimia haemolytica M42548
NC_021082 Mannheimia haemolytica M42548
NC_002663 Pasteurella multocida subsp. multocida str. Pm70
NC_002663 Pasteurella multocida subsp. multocida str. Pm70
NC_002663 Pasteurella multocida subsp. multocida str. Pm70
NC_009085 Acinetobacter baumannii ATCC 17978
NC_009085 Acinetobacter baumannii ATCC 17978
NC_014147 Moraxella catarrhalis RH4
NC_014147 Moraxella catarrhalis RH4
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
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NC_010995 Cellvibrio japonicus Ueda107
NC_010995 Cellvibrio japonicus Ueda107
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NC_010995 Cellvibrio japonicus Ueda107
NC_002516 Pseudomonas aeruginosa PAO1
NC_002516 Pseudomonas aeruginosa PAO1
NC_002516 Pseudomonas aeruginosa PAO1
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NC_018868 Simiduia agarivorans SA1 = DSM21679
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NC_006570 Francisella tularensis subsp. tularensis SCHU S4
NC_006570 Francisella tularensis subsp. tularensis SCHU S4
NC_021917 Cycloclasticus zancles 7-ME
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NC_021917 Cycloclasticus zancles 7-ME
NC_021917 Cycloclasticus zancles 7-ME
NC_017857 Methylophaga nitratireducenticrescens
NC_017857 Methylophaga nitratireducenticrescens
NC_017857 Methylophaga nitratireducenticrescens
NC_017857 Methylophaga nitratireducenticrescens
NC_015581 Thioalkalimicrobium cyclicum ALM1
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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_007520 Thiomicrospira crunogena XCL-2
NC_007520 Thiomicrospira crunogena XCL-2
NC_011312 Aliivibrio salmonicida LFI1238
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NC_011313 Aliivibrio salmonicida LFI1238
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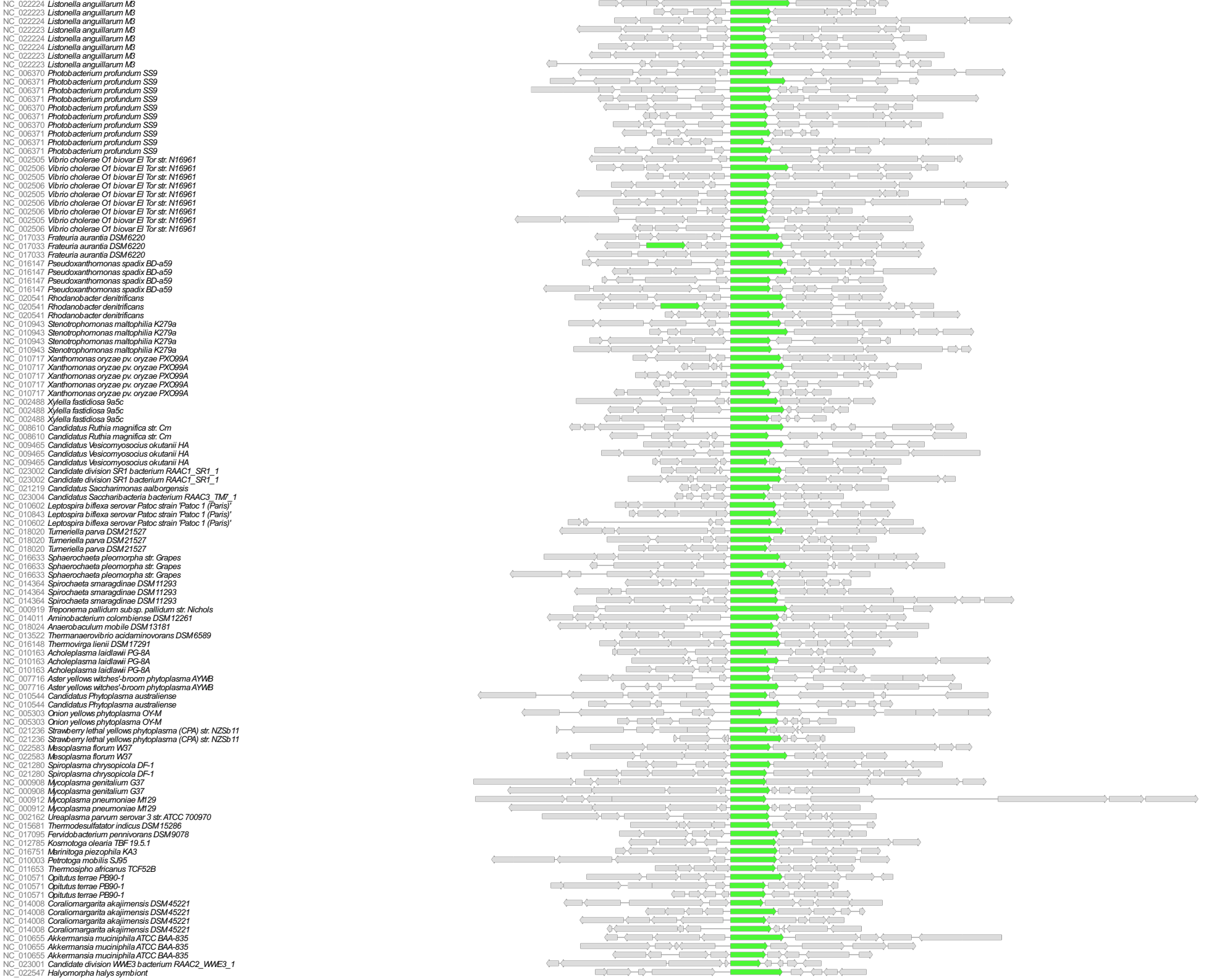
NC_011312 Aliivibrio salmonicida LFI1238
NC_022223 Listonella anguillarum M3



COG0513 Superfamily II DNAand RNAhelicase