

Supplementary Table 1: Composition of the simulated 100-genome metagenome. This metagenome contains 400×10^6 101-nucleotide reads. This corresponds to 1 lane of a Illumina HiSeq 2000 flow cell. The reads are paired with a average fragment length of 400 and a standard deviation of 40. The substitution sequencing error rate is 0.25% and uniform. 1% of the reads are human sequences. The remaining numbers of reads are distributed with a power law (exponent: -0.5). Accession numbers are listed in Supplementary Table 4

Genome	Number of reads
<i>Homo sapiens</i> (hg19)	4000000
<i>Oligotropha carboxidovorans</i> OM5	21302230
<i>Wolbachia endosymbiont of Drosophila melanogaster</i>	15062950
<i>Klebsiella variicola</i> At 22	12298848
<i>Chlorobium luteolum</i> DSM 273	10651114
<i>Borrelia afzelii</i> PKo	9526646
<i>Francisella tularensis mediasiatica</i> FSC147	8696598
<i>Aliivibrio salmonicida</i> LFI1238	8051486
<i>Salmonella enterica</i> serovar Typhi CT18	7531476
<i>Laribacter hongkongensis</i> HLHK9	7100744
<i>Sulfurimonas autotrophica</i> DSM 16294	6736356
<i>Odoribacter splanchnicus</i> DSM 20712	6422864
<i>Sulfolobus islandicus</i> Y N 15 51	6149424
<i>Roseobacter denitrificans</i> OCh 114	5908176
<i>Hyphomonas neptunium</i> ATCC 15444	5693260
<i>Clostridium botulinum</i> Ba4 657	5500212
<i>Nitrosopumilus maritimus</i> SCM1	5325558
<i>Yersinia pestis</i> CO92	5166550
<i>Haloarcula hispanica</i> ATCC 33960	5020984
<i>Thioalkalivibrio</i> K90mix	4887066
<i>Thermoanaerobacter italicus</i> Ab9	4763324
<i>Yersinia enterocolitica</i> palearctica 105 5R r	4648528
<i>Halorhabdus utahensis</i> DSM 12940	4541650
<i>Amycolalicoccus subflavus</i> DQS3 9A1	4441822
<i>Salmonella enterica</i> serovar Paratyphi C RKS4594	4348300
<i>Streptomyces violaceusniger</i> Tu 4113	4260446
<i>Pseudomonas fluorescens</i> Pf 5	4177710
<i>Amycolatopsis mediterranei</i> U32	4099616
<i>Chlorobium phaeobacteroides</i> DSM 266	4025742
<i>Leifsonia xyli</i> CTCB07	3955724
<i>Sinorhizobium medicae</i> WSM419	3889238
<i>Escherichia coli</i> ATCC 8739	3825994
<i>Burkholderia phymatum</i> STM815	3765738
<i>Haloferax volcanii</i> DS2	3708242
<i>Variovorax paradoxus</i> EPS	3653302
<i>Helicobacter hepaticus</i> ATCC 51449	3600734
<i>Delftia acidovorans</i> SPH 1	3550372

<i>Coxiella burnetii</i> RSA 493	3502064
<i>Pseudomonas mendocina</i> ymp	3455678
<i>Rhodopseudomonas palustris</i> HaA2	3411086
<i>Candidatus Moranella endobia</i> PCIT	3368178
<i>Archaeoglobus profundus</i> DSM 5631	3326850
<i>Megasphaera elsdenii</i> DSM 20460	3287006
<i>Candidatus Vesicomysocius okutanii</i> HA	3248560
<i>Yersinia pestis</i> Pestoides F	3211432
<i>Chlorobium chlorochromatii</i> CaD3	3175548
<i>Burkholderia glumae</i> BGR1	3140842
<i>Xylella fastidiosa</i> M12	3107250
<i>Synechococcus elongatus</i> PCC 6301	3074712
<i>Acinetobacter</i> ADP1	3043176
<i>Halanaerobium hydrogeniformans</i>	3012590
<i>Leptospira interrogans</i> serovar Lai 56601	2982908
<i>Serratia</i> AS9	2954088
<i>Riemerella anatipestifer</i> DSM 15868	2926086
<i>Lacinutrix</i> 5H 3 7 4	2898866
<i>Paenibacillus</i> JDR 2	2872392
<i>Geobacillus</i> Y412MC61	2846630
<i>Rhodobacter sphaeroides</i> ATCC 17025	2821550
<i>Dehalococcoides</i> BAV1	2797120
<i>Acinetobacter</i> DR1	2773314
<i>Halomicrobium mukohataei</i> DSM 12286	2750106
<i>Prevotella ruminicola</i> 23	2727470
<i>Desulfovibrio vulgaris</i> Hildenborough	2705386
<i>Idiomarina loihiensis</i> L2TR	2683828
<i>Desulfatibacillum alkenivorans</i> AK 01	2662778
<i>Teredinibacter turnerae</i> T7901	2642216
<i>Haemophilus influenzae</i> PittGG	2622124
<i>Candidatus Amoebophilus asiaticus</i> 5a2	2602482
<i>Psychrobacter cryohalolentis</i> K5	2583274
<i>Clostridium</i> SY8519	2564488
<i>Parvibaculum lavamentivorans</i> DS 1	2546104
<i>Synechococcus</i> CC9605	2528110
<i>Prochlorococcus marinus</i> MIT 9211	2510492
<i>Rhodoferrax ferrireducens</i> T118	2493238
<i>Salmonella enterica</i> serovar Heidelberg SL476	2476334
<i>Clostridium difficile</i> R20291	2459770
<i>Helicobacter pylori</i> P12	2443534
<i>Escherichia coli</i> S88	2427614
<i>Thermococcus sibiricus</i> MM 739	2412002
<i>Bacillus amyloliquefaciens</i> FZB42	2396688
<i>Aquifex aeolicus</i> VF5	2381662
<i>Streptococcus gallolyticus</i> UCN34	2366914
<i>Prochlorococcus marinus</i> MIT 9215	2352438

<i>Pyrococcus horikoshii</i> OT3	2338224
<i>Methanocaldococcus vulcanius</i> M7	2324264
<i>Escherichia coli</i> K 12 substr MG1655	2310552
<i>Methanococcus maripaludis</i> X1	2297078
<i>Dickeya zeae</i> Ech1591	2283838
<i>Pseudomonas syringae</i> B728a	2270826
<i>Rhodopseudomonas palustris</i> BisA53	2258032
<i>Cellulophaga lytica</i> DSM 7489	2245452
<i>Neisseria gonorrhoeae</i> NCCP11945	2233080
<i>Rothia dentocariosa</i> ATCC 17931	2220910
<i>Acidimicrobium ferrooxidans</i> DSM 10331	2208938
<i>Shewanella</i> ANA 3	2197158
<i>Neisseria gonorrhoeae</i> FA 1090	2185562
<i>Brucella suis</i> ATCC 23445	2174150
<i>Mobiluncus curtisii</i> ATCC 43063	2162914
<i>Methylobacterium alcaliphilum</i>	2151850
<i>Staphylothermus hellenicus</i> DSM 12710	2140954
<i>Olsenella uli</i> DSM 7084	2130222

Supplementary Table 2: Composition of the simulated 1000-genome metagenome. This metagenome contains 3×10^9 100-nucleotide reads. This corresponds to 1 Illumina HiSeq 2000 flow cell. The reads are paired with a average fragment length of 400 and a standard deviation of 40. The substitution sequencing error rate is 0.25% and uniform. 1% of the reads are human sequences. The remaining numbers of reads are distributed with a power law (exponent: -0.3). Accession numbers are listed in Supplementary Table 4

Genome	Number of reads
<i>Homo sapiens</i> (hg19)	30000000
<i>Pseudogulbenkiania</i> NH8B	48057468
<i>Methanosaeta concilii</i> GP6	33981762
<i>Paenibacillus polymyxa</i> SC2	27745992
<i>Myxococcus fulvus</i> HW 1	24028734
<i>Desulfotomaculum carboxydivorans</i> CO 1 SRB	21491954
<i>Xylella fastidiosa</i> M12	19619380
<i>Ruminococcus albus</i> 7	18164016
<i>Bacillus anthracis</i> A0248	16990880
<i>Mesorhizobium opportunistum</i> WSM2075	16019156
<i>Corynebacterium resistens</i> DSM 45100	15197106
<i>Chlamydia trachomatis</i> B TZ1A828 OT	14489872
<i>Ilyobacter polytropus</i> DSM 2926	13872996
<i>Synechococcus</i> PCC 7002	13328744
<i>Halomicrobium mukohataei</i> DSM 12286	12843898
<i>Chloroflexus aggregans</i> DSM 9485	12408384
<i>Brachybacterium faecium</i> DSM 4810	12014366
<i>Bacillus clausii</i> KSM K16	11655648
<i>Thermocrinis albus</i> DSM 14484	11327254
<i>Glaciecola nitratreducens</i> FR1064	11025140
<i>Corynebacterium glutamicum</i> R	10745976
<i>Acinetobacter baumannii</i> ACICU	10487000
<i>Thermoplasma acidophilum</i> DSM 1728	10245886
<i>Dichelobacter nodosus</i> VCS1703A	10020674
<i>Pseudomonas aeruginosa</i> UCBPP PA14	9809690
<i>Xanthomonas albilineans</i> GPE PC73	9611494
<i>Starkeya novella</i> DSM 506	9424844
<i>Pediococcus pentosaceus</i> ATCC 25745	9248664
<i>Dyadobacter fermentans</i> DSM 18053	9082008
<i>Candidatus Liberibacter asiaticus</i> psy62	8924048
<i>Onion yellows phytoplasma</i> OY M	8774054
<i>Gluconobacter oxydans</i> 621H	8631376
<i>Cellulomonas flavigena</i> DSM 20109	8495440
<i>Lactobacillus gasseri</i> ATCC 33323	8365732
<i>Eggerthella lenta</i> DSM 2243	8241788
<i>Rubrobacter xylanophilus</i> DSM 9941	8123194
<i>Nitrosococcus oceani</i> ATCC 19707	8009578
<i>Haloterrigena turkmenica</i> DSM 5511	7900600

<i>Treponema denticola</i> ATCC 35405	7795950
<i>Riemerella anatipestifer</i> DSM 15868	7695354
<i>Cellvibrio japonicus</i> Ueda107	7598552
<i>Buchnera aphidicola</i> Bp Baizongia pistaciae	7505316
<i>Geobacter bemidjiensis</i> Bem	7415428
<i>Halorubrum lacusprofundi</i> ATCC 49239	7328696
<i>Listeria monocytogenes</i> serotype 4b F2365	7244936
<i>Methanocaldococcus vulcanius</i> M7	7163984
<i>Amycolatopsis mediterranei</i> U32	7085688
<i>Methanosarcina barkeri</i> Fusaro	7009902
<i>Campylobacter concisus</i> 13826	6936498
<i>Agrobacterium vitis</i> S4	6865352
<i>Atopobium parvulum</i> DSM 20469	6796352
<i>Deinococcus radiodurans</i> R1	6729392
<i>Lawsonia intracellularis</i> PHE MN1 00	6664372
<i>Escherichia coli</i> BW2952	6601200
<i>Enterobacter</i> 638	6539794
<i>Acidobacterium capsulatum</i> ATCC 51196	6480068
<i>Borrelia burgdorferi</i> B31	6421950
<i>Rhodococcus opacus</i> B4	6365368
<i>Haemophilus somnus</i> 129PT	6310254
<i>Candidatus Desulforudis audaxviator</i> MP104C	6256550
<i>Desulfovibrio vulgaris</i> Hildenborough	6204192
<i>Azotobacter vinelandii</i> DJ	6153128
<i>Synechocystis</i> PCC 6803	6103304
<i>halophilic archaeon</i> DL31	6054672
<i>Treponema pallidum</i> Nichols	6007184
<i>Streptococcus pneumoniae</i> G54	5960796
<i>Candidatus Zinderia insecticola</i> CARI	5915466
<i>Desulfovibrio aespoeensis</i> Aspo 2	5871154
<i>Lactobacillus acidophilus</i> 30SC	5827824
<i>Nitrosopumilus maritimus</i> SCM1	5785440
<i>Salmonella bongori</i> NCTC 12419	5743966
<i>Pseudoxanthomonas suwonensis</i> 11 1	5703372
<i>Aerococcus urinae</i> ACS 120 V Col10a	5663626
<i>Corynebacterium variabile</i> DSM 44702	5624702
<i>Listeria welshimeri</i> serovar 6b SLCC5334	5586568
<i>Xanthomonas oryzae</i> MAFF 311018	5549198
<i>Methylobacterium extorquens</i> DM4	5512570
<i>Rhodococcus erythropolis</i> PR4	5476656
<i>Thiobacillus denitrificans</i> ATCC 25259	5441436
<i>Cellvibrio gilvus</i> ATCC 13127	5406888
<i>Bartonella henselae</i> Houston 1	5372988
<i>Bradyrhizobium japonicum</i> USDA 110	5339718
<i>Wolbachia endosymbiont of Drosophila melanogaster</i>	5307060
<i>Chlamydomonas pneumoniae</i> TW 183	5274992

<i>Synechococcus</i> WH 8102	5243500
<i>Campylobacter fetus</i> 82 40	5212564
<i>Spirosoma linguale</i> DSM 74	5182170
<i>Lactobacillus kefiranofaciens</i> ZW3	5152302
<i>Halalkalicoccus jeotgali</i> B3	5122944
<i>Streptococcus thermophilus</i> LMG 18311	5094082
<i>Campylobacter jejuni</i> 81116	5065702
<i>Escherichia coli</i> O26 H11 11368	5037792
<i>Helicobacter pylori</i> SJM180	5010338
<i>Nitrobacter hamburgensis</i> X14	4983328
<i>Clostridiales genomosp</i> BVAB3 UPII9 5	4956750
<i>Geobacter</i> FRC 32	4930592
<i>Alteromonas macleodii</i> Deep ecotype	4904844
<i>Thermotoga</i> RQ2	4879496
<i>Thermoproteus neutrophilus</i> V24Sta	4854538
<i>Haemophilus somnus</i> 2336	4829958
<i>Herbaspirillum seropedicae</i> SmR1	4805746
<i>Thermodesulfatator indicus</i> DSM 15286	4781896
<i>Escherichia coli</i> K 12 substr MG1655	4758398
<i>Nocardiopsis dassonvillei</i> DSM 43111	4735244
<i>Chlamydia muridarum</i> Nigg	4712422
<i>Clostridium botulinum</i> A Hall	4689928
<i>Pseudomonas stutzeri</i> A1501	4667754
<i>Helicobacter mustelae</i> 12198	4645890
<i>Opitutus terrae</i> PB90 1	4624332
<i>Syntrophomonas wolfei</i> Goettingen	4603070
<i>Geobacillus</i> WCH70	4582100
<i>Candidatus Tremblaya princeps</i> PCIT	4561412
<i>Methylothermobacter</i> 301	4541004
<i>Listeria monocytogenes</i> HCC23	4520866
<i>Bacillus cellulosilyticus</i> DSM 2522	4500994
<i>Hyperthermus butylicus</i> DSM 5456	4481382
<i>Yersinia enterocolitica</i> palearctica 105 5R r	4462024
<i>Methanococcoides burtonii</i> DSM 6242	4442914
<i>Rhodospirillum centenum</i> SW	4424048
<i>Leptospira borgpetersenii</i> serovar Hardjo bovis L550	4405420
<i>Cronobacter turicensis</i> z3032	4387026
<i>Alteromonas</i> SN2	4368860
<i>Anaerococcus prevotii</i> DSM 20548	4350918
<i>Isosphaera pallida</i> ATCC 43644	4333196
<i>Thermomicrobium roseum</i> DSM 5159	4315688
<i>Sanguibacter keddienii</i> DSM 10542	4298390
<i>Acidimicrobium ferrooxidans</i> DSM 10331	4281300
<i>Gardnerella vaginalis</i> ATCC 14019	4264410
<i>Corynebacterium kroppenstedtii</i> DSM 44385	4247720
<i>Microbacterium testaceum</i> StLB037	4231224

<i>Escherichia coli</i> HS	4214918
<i>Pseudomonas fluorescens</i> Pf 5	4198800
<i>Streptococcus pyogenes</i> SSI 1	4182866
<i>Salmonella enterica</i> serovar Typhi Ty2	4167110
<i>Campylobacter jejuni</i> RM1221	4151532
<i>Polymorphum gilvum</i> SL003B 26A1	4136128
<i>Verrucosipora maris</i> AB 18 032	4120894
<i>Streptococcus pasteurianus</i> ATCC 43144	4105826
<i>Geobacillus</i> Y412MC61	4090924
<i>Vibrio cholerae</i> O1 2010EL 1786	4076182
<i>Erwinia amylovora</i> ATCC 49946	4061598
<i>Tropheryma whipplei</i> TW08 27	4047168
<i>Rickettsia felis</i> URRWXCel2	4032894
<i>Staphylococcus carnosus</i> TM300	4018768
<i>Ehrlichia ruminantium</i> Welgevonden	4004788
<i>Porphyromonas gingivalis</i> TDC60	3990956
<i>Wolinella succinogenes</i> DSM 1740	3977264
<i>Syntrophobotulus glycolicus</i> DSM 8271	3963714
<i>Pseudoalteromonas atlantica</i> T6c	3950300
<i>Xylella fastidiosa</i> 9a5c	3937022
<i>Aeromonas salmonicida</i> A449	3923876
<i>Lactobacillus reuteri</i> JCM 1112	3910862
<i>Picrophilus torridus</i> DSM 9790	3897976
<i>Methanohalophilus mahii</i> DSM 5219	3885216
<i>Mycoplasma penetrans</i> HF 2	3872582
<i>Thermodesulfobium narugense</i> DSM 14796	3860068
<i>Nostoc azollae</i> 0708	3847676
<i>Methanothermus fervidus</i> DSM 2088	3835404
<i>Streptococcus suis</i> P1 7	3823246
<i>Blattabacterium Blattella germanica</i> Bge	3811206
<i>Leuconostoc citreum</i> KM20	3799276
<i>Herminiimonas arsenicoxydans</i>	3787460
<i>Thermoanaerobacter wiegelii</i> Rt8 B1	3775752
<i>Methanocaldococcus</i> FS406 22	3764152
<i>Candidatus Sulcia muelleri</i> CARI	3752658
<i>Pyrococcus horikoshii</i> OT3	3741268
<i>Geobacillus</i> C56 T3	3729982
<i>Streptococcus pyogenes</i> MGAS2096	3718798
<i>Ralstonia solanacearum</i> CFBP2957	3707714
<i>Desulfurobacterium thermolithotrophum</i> DSM 11699	3696728
<i>Ehrlichia chaffeensis</i> Arkansas	3685840
<i>Neisseria gonorrhoeae</i> FA 1090	3675046
<i>Mycoplasma genitalium</i> G37	3664348
<i>Helicobacter pylori</i> J99	3653742
<i>Parvularcula bermudensis</i> HTCC2503	3643228
<i>Salmonella enterica</i> serovar Choleraesuis SC B67	3632804

<i>Clostridium botulinum</i> BKT015925	3622468
<i>Methanoculleus marisnigri</i> JR1	3612220
<i>Lactobacillus plantarum</i> WCFS1	3602060
<i>Sulfurihydrogenibium azorense</i> Az Fu1	3591984
<i>Escherichia coli</i> CFT073	3581992
<i>Chlorobium tepidum</i> TLS	3572084
<i>Streptococcus pneumoniae</i> AP200	3562256
<i>Veillonella parvula</i> DSM 2008	3552510
<i>Methanothermobacter marburgensis</i> Marburg	3542844
<i>Beutenbergia cavernae</i> DSM 12333	3533256
<i>Haliscomenobacter hydrossis</i> DSM 1100	3523744
<i>Lactobacillus buchneri</i> NRRL B 30929	3514310
<i>Methanocorpusculum labreanum</i> Z	3504952
<i>Burkholderia mallei</i> ATCC 23344	3495666
<i>Caldicellulosiruptor lactoaceticus</i> 6A	3486456
<i>Mycobacterium vanbaalenii</i> PYR 1	3477316
<i>Staphylococcus aureus</i> MW2	3468250
<i>Rhodopseudomonas palustris</i> BisA53	3459252
<i>Geobacter</i> M18	3450326
<i>Francisella tularensis</i> SCHU S4	3441466
<i>Methylobacillus flagellatus</i> KT	3432676
<i>Pseudomonas fluorescens</i> SBW25	3423952
<i>Streptococcus mutans</i> NN2025	3415296
<i>Legionella pneumophila</i> Paris	3406704
<i>Rickettsia typhi</i> Wilmington	3398176
<i>Vibrio cholerae</i> M66 2	3389712
<i>Chromohalobacter salexigens</i> DSM 3043	3381312
<i>Streptococcus pneumoniae</i> TIGR4	3372974
<i>Mycoplasma haemofelis</i> Langford 1	3364696
<i>Rhodospirillum rubrum</i> ATCC 11170	3356480
<i>Marinobacter aquaeolei</i> VT8	3348322
<i>Eggerthella</i> YY7918	3340224
<i>Moorella thermoacetica</i> ATCC 39073	3332186
<i>Haemophilus parainfluenzae</i> T3T1	3324204
<i>Gluconacetobacter diazotrophicus</i> PAL 5	3316280
<i>Thermodesulfobacterium</i> OPB45	3308412
<i>Acidiphilium cryptum</i> JF 5	3300600
<i>Desulfurococcus kamchatkensis</i> 1221n	3292844
<i>Thermosiphon melanesiensis</i> BI429	3285140
<i>Streptococcus oralis</i> Uo5	3277492
<i>Thiomonas intermedia</i> K12	3269896
<i>Pseudomonas syringae</i> phaseolicola 1448A	3262354
<i>Aeromonas hydrophila</i> ATCC 7966	3254862
<i>Geobacter</i> M21	3247422
<i>Micromonospora aurantiaca</i> ATCC 27029	3240034
<i>gamma proteobacterium</i> HdN1	3232696

<i>Bordetella parapertussis</i> 12822	3225406
<i>Chloroherpeton thalassium</i> ATCC 35110	3218166
<i>Thermotoga maritima</i> MSB8	3210974
<i>Salmonella enterica</i> serovar <i>Paratyphi B</i> SPB7	3203832
<i>Rhodopseudomonas palustris</i> HaA2	3196736
<i>Chlorobaculum parvum</i> NCIB 8327	3189686
<i>Salinibacter ruber</i> DSM 13855	3182684
<i>Chlamydia trachomatis</i> A HAR 13	3175726
<i>Oceanithermus profundus</i> DSM 14977	3168816
<i>Xanthomonas campestris vesicatoria</i> 85 10	3161950
<i>Dehalococcoides ethenogenes</i> 195	3155128
<i>Chlamydia trachomatis</i> B Jali20 OT	3148350
<i>Thermaerobacter marianensis</i> DSM 12885	3141614
<i>Methanococcus maripaludis</i> C6	3134924
<i>Pelotomaculum thermopropionicum</i> SI	3128274
<i>Thermotoga naphthophila</i> RKU 10	3121668
<i>Pyrobaculum calidifontis</i> JCM 11548	3115102
<i>Ehrlichia ruminantium</i> Welgevonden	3108580
<i>Staphylococcus epidermidis</i> RP62A	3102096
<i>Actinobacillus succinogenes</i> 130Z	3095654
<i>Ferrimonas balearica</i> DSM 9799	3089252
<i>Candidatus Sulcia muelleri</i> DMIN	3082888
<i>Thermovirga lienii</i> DSM 17291	3076564
<i>Mycobacterium bovis</i> BCG Pasteur 1173P2	3070280
<i>Ehrlichia canis</i> Jake	3064032
<i>Arcobacter butzleri</i> RM4018	3057824
<i>Spirochaeta smaragdinae</i> DSM 11293	3051652
<i>Shewanella violacea</i> DSS12	3045518
<i>Thermococcus barophilus</i> MP	3039422
<i>Candidatus Pelagibacter</i> IMCC9063	3033360
<i>Desulfotomaculum ruminis</i> DSM 2154	3027336
<i>Borrelia recurrentis</i> A1	3021348
<i>Bartonella quintana</i> Toulouse	3015394
<i>Streptococcus gordonii</i> Challis substr CH1	3009476
<i>Rhodococcus equi</i> 103S	3003592
<i>Campylobacter curvus</i> 525 92	2997742
<i>Sulfolobus islandicus</i> M 14 25	2991928
<i>Clostridium perfringens</i> SM101	2986146
<i>Arthrobacter aurescens</i> TC1	2980398
<i>Stenotrophomonas maltophilia</i> R551 3	2974682
<i>Candidatus Solibacter usitatus</i> Ellin6076	2969000
<i>Verminephrobacter eiseniae</i> EF01 2	2963350
<i>Hippea maritima</i> DSM 10411	2957732
<i>Sulfolobus islandicus</i> Y N 15 51	2952146
<i>Megasphaera elsdenii</i> DSM 20460	2946592
<i>Methanoregula boonei</i> 6A8	2941070

<i>Clostridium botulinum</i> A2 Kyoto	2935578
<i>Methanococcus maripaludis</i> C5	2930116
<i>Treponema succinifaciens</i> DSM 2489	2924684
<i>Anaplasma marginale</i> Maries	2919284
<i>Xanthomonas axonopodis citri</i> 306	2913912
<i>Streptococcus parasanguinis</i> ATCC 15912	2908570
<i>Oscillibacter valericigenes</i>	2903258
<i>Francisella</i> TX077308	2897974
<i>Blattabacterium Periplaneta americana</i> BPLAN	2892720
<i>Bifidobacterium dentium</i> Bd1	2887494
<i>Listeria innocua</i> Clip11262	2882296
<i>Bacillus amyloliquefaciens</i> DSM 7	2877126
<i>Bacillus licheniformis</i> ATCC 14580	2871984
<i>Cronobacter sakazakii</i> ATCC BAA 894	2866868
<i>Bacillus coagulans</i> 36D1	2861780
<i>Mycoplasma mycoides</i> SC PG1	2856720
<i>Pseudomonas aeruginosa</i> PAO1	2851686
<i>Dehalococcoides</i> VS	2846678
<i>Brucella ovis</i> ATCC 25840	2841698
<i>Methanobrevibacter smithii</i> ATCC 35061	2836742
<i>Lactobacillus acidophilus</i> NCFM	2831814
<i>Isoptericola variabilis</i> 225	2826910
<i>Salmonella enterica</i> serovar Paratyphi C RKS4594	2822032
<i>Bacillus anthracis</i> CDC 684	2817178
<i>Acaryochloris marina</i> MBIC11017	2812350
<i>Vibrio cholerae</i> O1 biovar El Tor N16961	2807548
<i>Bacillus cereus</i> ATCC 14579	2802768
<i>Pedobacter heparinus</i> DSM 2366	2798014
<i>Pelagibacterium halotolerans</i> B2	2793284
<i>Sideroxydans lithotrophicus</i> ES 1	2788578
<i>Psychrobacter</i> PRwf 1	2783894
<i>Thermus thermophilus</i> HB8	2779236
<i>Alicyclobacillus acidocaldarius</i> DSM 446	2774600
<i>Candidatus Blochmannia vafer</i> BVAf	2769986
<i>Burkholderia mallei</i> NCTC 10229	2765396
<i>Streptomyces coelicolor</i> A3 2	2760830
<i>Acetobacter pasteurianus</i> IFO 3283 01	2756284
<i>Metallosphaera sedula</i> DSM 5348	2751762
<i>Natronomonas pharaonis</i> DSM 2160	2747262
<i>Desulfococcus oleovorans</i> Hxd3	2742784
<i>Ketogulonicigenium vulgare</i> Y25	2738328
<i>Cyanothece</i> PCC 8801	2733894
<i>Staphylococcus aureus</i> JH9	2729480
<i>Spirochaeta thermophila</i> DSM 6192	2725090
<i>Mycoplasma agalactiae</i> PG2	2720718
<i>Vibrio fischeri</i> MJ11	2716368

<i>Thermotoga lettingae</i> TMO	2712040
<i>Marinithermus hydrothermalis</i> DSM 14884	2707732
<i>Dickeya zeae</i> Ech1591	2703444
<i>Clavibacter michiganensis</i> NCPPB 382	2699176
<i>Bacillus atrophaeus</i> 1942	2694928
<i>Yersinia pseudotuberculosis</i> IP 32953	2690702
<i>Comamonas testosteroni</i> CNB 2	2686494
<i>Mycobacterium tuberculosis</i> H37Ra	2682306
<i>Escherichia coli</i> O157 H7 EDL933	2678138
<i>Pseudomonas putida</i> KT2440	2673990
<i>Rothia dentocariosa</i> ATCC 17931	2669860
<i>Staphylococcus epidermidis</i> ATCC 12228	2665748
<i>Thermobifida fusca</i> YX	2661656
<i>Campylobacter jejuni</i> doylei 269 97	2657584
<i>Robiginitalea biformata</i> HTCC2501	2653530
<i>Photorhabdus luminescens laumondii</i> TTO1	2649494
<i>Rahnella</i> Y9602	2645476
<i>Mannheimia succiniciproducens</i> MBEL55E	2641478
<i>Thermotoga neapolitana</i> DSM 4359	2637496
<i>Porphyromonas gingivalis</i> ATCC 33277	2633534
<i>Streptomyces cattleya</i> NRRL 8057	2629588
<i>Rhodopseudomonas palustris</i> BisB5	2625660
<i>Rhodopseudomonas palustris</i> BisB18	2621750
<i>Rhodococcus jostii</i> RHA1	2617858
<i>Pelobacter propionicus</i> DSM 2379	2613982
<i>Kytococcus sedentarius</i> DSM 20547	2610124
<i>Fleristipes sinusarabici</i> DSM 4947	2606282
<i>Wigglesworthia glossinidia</i> endosymbiont of <i>Glossina brevipalpis</i>	2602458
<i>Oligotropha carboxidovorans</i> OM5	2598650
<i>Helicobacter pylori</i> B8	2594860
<i>cyanobacterium</i> UCYN A	2591086
<i>Thermoanaerobacter</i> X513	2587328
<i>Yersinia pestis</i> KIM 10	2583586
<i>Weeksella virosa</i> DSM 16922	2579860
<i>Buchnera aphidicola</i> Cc <i>Cinara cedri</i>	2576150
<i>Burkholderia pseudomallei</i> 668	2572458
<i>Salmonella enterica</i> serovar <i>Typhi</i> CT18	2568780
<i>Caulobacter</i> K31	2565118
<i>Desulfovibrio magneticus</i> RS 1	2561472
<i>Thermotoga petrophila</i> RKU 1	2557840
<i>Vibrio parahaemolyticus</i> RIMD 2210633	2554226
<i>Pseudomonas stutzeri</i> ATCC 17588 LMG 11199	2550626
<i>Thermococcus gammatolerans</i> EJ3	2547040
<i>Micavibrio aeruginosavorus</i> ARL 13	2543470
<i>Rickettsia prowazekii</i> Madrid E	2539916
<i>Sulfurihydrogenibium</i> YO3AOP1	2536376

<i>Desulfobacca acetoxidans</i> DSM 11109	2532850
<i>Teredinibacter turnerae</i> T7901	2529340
<i>Pseudomonas brassicacearum</i> NFM421	2525844
<i>Escherichia coli</i> S88	2522362
<i>Pectobacterium wasabiae</i> WPP163	2518896
<i>Haloarcula hispanica</i> ATCC 33960	2515442
<i>Nitrosomonas eutropha</i> C91	2512004
<i>Staphylothermus marinus</i> F1	2508580
<i>Thermanaerovibrio acidaminovorans</i> DSM 6589	2505168
<i>Methylomonas methanica</i> MC09	2501772
<i>Thermosediminibacter oceani</i> DSM 16646	2498388
<i>Bacillus selenitireducens</i> MLS10	2495020
<i>Desulfobulbus propionicus</i> DSM 2032	2491664
<i>Desulfotomaculum acetoxidans</i> DSM 771	2488322
<i>Prochlorococcus marinus</i> MIT 9301	2484992
<i>Shigella boydii</i> Sb227	2481676
<i>Borrelia garinii</i> PBi	2478374
<i>Mesorhizobium ciceri</i> biovar biserrulae WSM1271	2475086
<i>Lysinibacillus sphaericus</i> C3 41	2471810
<i>Enterobacter aerogenes</i> KCTC 2190	2468546
<i>Burkholderia phytofirmans</i> PsJN	2465296
<i>Chitinophaga pinensis</i> DSM 2588	2462058
<i>Serratia</i> AS12	2458834
<i>Prochlorococcus marinus</i> MIT 9312	2455622
<i>Salinispora tropica</i> CNB 440	2452422
<i>Ammonifex degensii</i> KC4	2449236
<i>Prochlorococcus marinus</i> NATL2A	2446060
<i>Rhizobium leguminosarum</i> bv trifolii WSM2304	2442898
<i>Paenibacillus</i> Y412MC10	2439748
<i>Enterobacter asburiae</i> LF7a	2436610
<i>Bacteroides salanitronis</i> DSM 18170	2433484
<i>Rhizobium</i> NGR234	2430370
<i>Listeria monocytogenes</i> EGD e	2427268
<i>Burkholderia cenocepacia</i> MC0 3	2424178
<i>Caldivirga maquilingensis</i> IC 167	2421100
<i>Croceibacter atlanticus</i> HTCC2559	2418034
<i>Agrobacterium tumefaciens</i> C58	2414978
<i>Clostridium difficile</i> 630	2411936
<i>Lactobacillus helveticus</i> DPC 4571	2408904
<i>Listeria monocytogenes</i> 08 5923	2405882
<i>Rhizobium leguminosarum</i> bv trifolii WSM1325	2402874
<i>Thermovibrio ammonificans</i> HB 1	2399876
<i>Geobacillus thermodenitrificans</i> NG80 2	2396888
<i>Blattabacterium Mastotermes darwiniensis</i> MADAR	2393912
<i>Shewanella denitrificans</i> OS217	2390948
<i>Mycobacterium avium</i> 104	2387994

<i>Brevundimonas subvibrioides</i> ATCC 15264	2385052
<i>Streptococcus salivarius</i> CCHSS3	2382120
<i>Corynebacterium glutamicum</i> ATCC 13032	2379200
<i>Methanosalsum zhilinae</i> DSM 4017	2376288
<i>Burkholderia pseudomallei</i> 1710b	2373390
<i>Pyrobaculum arsenaticum</i> DSM 13514	2370500
<i>Bacillus anthracis</i> Ames	2367622
<i>Klebsiella pneumoniae</i> 342	2364754
<i>Sulfuricurvum kujiense</i> DSM 16994	2361896
<i>Neisseria meningitidis</i> 053442	2359048
<i>Pyrococcus</i> NA2	2356212
<i>Candidatus Hamiltonella defensa</i> 5AT <i>Acyrtosiphon pisum</i>	2353384
<i>Runella slithyformis</i> DSM 19594	2350568
<i>Mycoplasma hyopneumoniae</i> 232	2347760
<i>Rhodoferrax ferrireducens</i> T118	2344964
<i>Bordetella pertussis</i> Tohama I	2342178
<i>Thermoanaerobacter tengcongensis</i> MB4	2339400
<i>Chlamydia trachomatis</i> L2b UCH 1 proctitis	2336634
<i>Heliobacterium modesticaldum</i> Ice1	2333876
<i>Ureaplasma parvum</i> serovar 3 ATCC 700970	2331130
<i>Sphingobium japonicum</i> UT26S	2328392
<i>Ralstonia eutropha</i> JMP134	2325664
<i>Treponema paraluis-cuniculi</i> Cuniculi A	2322946
<i>Streptococcus pneumoniae</i> 70585	2320236
<i>Nitratifractor salsuginis</i> DSM 16511	2317536
<i>Clostridium novyi</i> NT	2314846
<i>Xenorhabdus nematophila</i> ATCC 19061	2312166
<i>Escherichia coli</i> O157 H7 Sakai	2309494
<i>Thermobaculum terrenum</i> ATCC BAA 798	2306832
<i>Frankia</i> CcI3	2304180
<i>Methanosaeta thermophila</i> PT	2301536
<i>Parvibaculum lavamentivorans</i> DS 1	2298900
<i>Methanobacterium</i> SWAN 1	2296274
<i>Buchnera aphidicola</i> 5A <i>Acyrtosiphon pisum</i>	2293658
<i>Caldicellulosiruptor owensensis</i> OL	2291050
<i>Frankia</i> EAN1pec	2288450
<i>Streptococcus sanguinis</i> SK36	2285860
<i>Syntrophothermus lipocalidus</i> DSM 12680	2283280
<i>Bacillus pseudofirmus</i> OF4	2280706
<i>Pirellula staleyi</i> DSM 6068	2278142
<i>Staphylococcus aureus</i> Mu3	2275588
<i>Borrelia turicatae</i> 91E135	2273040
<i>Frankia</i> symbiont of <i>Datisca glomerata</i>	2270502
<i>Methanothermococcus okinawensis</i> IH1	2267972
<i>Wolbachia</i> endosymbiont of <i>Culex quinquefasciatus</i> Pel	2265450
<i>Actinobacillus pleuropneumoniae</i> serovar 7 AP76	2262938

<i>Dehalococcoides CBDB1</i>	2260434
<i>Haemophilus influenzae F3047</i>	2257936
<i>Treponema azotonutricium ZAS 9</i>	2255448
<i>Roseobacter litoralis Och 149</i>	2252968
<i>Shigella sonnei Ss046</i>	2250498
<i>Francisella novicida U112</i>	2248034
<i>Salinibacter ruber M8</i>	2245578
<i>Bacillus amyloliquefaciens FZB42</i>	2243130
<i>Brucella melitensis ATCC 23457</i>	2240690
<i>Thermosphaera aggregans DSM 11486</i>	2238260
<i>Bacillus cereus E33L</i>	2235836
<i>Streptococcus suis ST3</i>	2233420
<i>Legionella pneumophila Lens</i>	2231012
<i>Synechococcus RCC307</i>	2228612
<i>Klebsiella variicola At 22</i>	2226220
<i>Lactobacillus rhamnosus GG</i>	2223834
<i>Salmonella enterica serovar Typhimurium LT2</i>	2221458
<i>Streptobacillus moniliformis DSM 12112</i>	2219088
<i>Escherichia coli E24377A</i>	2216726
<i>Rhizobium etli CIAT 652</i>	2214372
<i>Stackebrandtia nassauensis DSM 44728</i>	2212024
<i>Streptococcus pyogenes MGAS315</i>	2209684
<i>Erysipelothrix rhusiopathiae Fujisawa</i>	2207352
<i>Mycobacterium bovis AF2122 97</i>	2205028
<i>Aster yellows witches broom phytoplasma AYWB</i>	2202710
<i>Mycoplasma pulmonis UAB CTIP</i>	2200400
<i>Roseiflexus RS 1</i>	2198098
<i>Streptococcus dysgalactiae equisimilis GGS 124</i>	2195802
<i>Lactobacillus casei ATCC 334</i>	2193514
<i>Pusillimonas T7 7</i>	2191232
<i>Clavibacter michiganensis sepedonicus</i>	2188958
<i>Staphylococcus haemolyticus JCSC1435</i>	2186690
<i>Bacillus cereus 03BB102</i>	2184430
<i>Escherichia fergusonii ATCC 35469</i>	2182178
<i>Erwinia pyrifoliae Ep1 96</i>	2179932
<i>Halopiger xanaduensis SH 6</i>	2177692
<i>Rickettsia japonica YH</i>	2175460
<i>Psychrobacter arcticus 273 4</i>	2173234
<i>Desulfurivibrio alkaliphilus AHT2</i>	2171016
<i>Novosphingobium PP1Y</i>	2168804
<i>Ralstonia pickettii 12D</i>	2166598
<i>Streptococcus pneumoniae CGSP14</i>	2164400
<i>Shewanella loihica PV 4</i>	2162208
<i>Helicobacter pylori G27</i>	2160022
<i>Synechococcus CC9902</i>	2157844
<i>Oceanobacillus iheyensis HTE831</i>	2155672

<i>Idiomarina loihiensis</i> L2TR	2153506
<i>Candidatus Chloracidobacterium thermophilum</i> B	2151348
<i>Lacinutrix</i> 5H 3 7 4	2149196
<i>Streptococcus equi</i> zooepidemicus	2147050
<i>Bifidobacterium adolescentis</i> ATCC 15703	2144910
<i>Aeropyrum pernix</i> K1	2142776
<i>Legionella longbeachae</i> NSW150	2140650
<i>Xanthomonas campestris</i> 8004	2138530
<i>Streptococcus pneumoniae</i> ATCC 700669	2136416
<i>Helicobacter pylori</i> HPAG1	2134308
<i>Mycoplasma leachii</i> PG50	2132206
<i>Petrogoga mobilis</i> SJ95	2130110
<i>Mycobacterium smegmatis</i> MC2 155	2128020
<i>Legionella pneumophila</i> Corby	2125938
<i>Paludibacter propionisigenes</i> WB4	2123860
<i>Metallosphaera cuprina</i> Ar 4	2121790
<i>Xylella fastidiosa</i> M23	2119724
<i>Magnetospirillum magneticum</i> AMB 1	2117666
<i>Haliangium ochraceum</i> DSM 14365	2115612
<i>Bacillus licheniformis</i> ATCC 14580	2113566
<i>Acidilobus saccharovorans</i> 345 15	2111524
<i>Vibrio anguillarum</i> 775	2109488
<i>Coprothermobacter proteolyticus</i> DSM 5265	2107460
<i>Prochlorococcus marinus</i> CCMP1375	2105436
<i>Staphylococcus aureus</i> JH1	2103418
<i>Ferroglobus placidus</i> DSM 10642	2101406
<i>Acidovorax</i> JS42	2099400
<i>Dehalococcoides</i> BAV1	2097400
<i>Pseudomonas fulva</i> 12 X	2095406
<i>Methanocaldococcus fervens</i> AG86	2093416
<i>Geobacter uraniireducens</i> Rf4	2091432
<i>Vibrio</i> Ex25	2089456
<i>Clostridium lentocellum</i> DSM 5427	2087484
<i>Streptococcus mitis</i> B6	2085516
<i>Lactobacillus reuteri</i> DSM 20016	2083556
<i>Streptococcus pseudopneumoniae</i> IS7493	2081600
<i>Salmonella enterica</i> serovar Paratyphi A AKU 12601	2079650
<i>Leptotrichia buccalis</i> C 1013 b	2077706
<i>Halobacterium</i> NRC 1	2075766
<i>Corynebacterium efficiens</i> YS 314	2073832
<i>Alkaliphilus oremlandii</i> OhILAs	2071904
<i>Lactobacillus plantarum</i> ST III	2069982
<i>Propionibacterium freudenreichii shermanii</i> CIRM BIA1	2068064
<i>Borrelia burgdorferi</i> ZS7	2066152
<i>Borrelia duttonii</i> Ly	2064246
<i>Escherichia coli</i> O111 H 11128	2062344

<i>Carboxydotherrnus hydrogenoformans</i> Z 2901	2060446
<i>Nitrosomonas</i> Is79A3	2058556
<i>Mycobacterium</i> JLS	2056670
<i>Frankia alni</i> ACN14a	2054788
<i>Thermoplasma volcanium</i> GSS1	2052914
<i>Methylobacterium extorquens</i> PA1	2051042
<i>Coriobacterium glomerans</i> PW2	2049178
<i>Prochlorococcus marinus</i> NATL1A	2047316
<i>Halorhabdus utahensis</i> DSM 12940	2045462
<i>Prevotella denticola</i> F0289	2043612
<i>Hahella chejuensis</i> KCTC 2396	2041766
<i>Candidatus Ruthia magnifica</i> Cm <i>Calypotgena magnifica</i>	2039926
<i>Muricauda ruestringensis</i> DSM 13258	2038090
<i>Hirschia baltica</i> ATCC 49814	2036260
<i>Bacillus cereus</i> Q1	2034434
<i>Staphylococcus aureus</i> NCTC 8325	2032614
<i>Symbiobacterium thermophilum</i> IAM 14863	2030798
<i>Treponema brennaborensense</i> DSM 12168	2028988
<i>Serratia</i> AS9	2027182
<i>Klebsiella pneumoniae</i> MGH 78578	2025380
<i>Nitrobacter winogradskyi</i> Nb 255	2023584
<i>Polynucleobacter necessarius</i> STIR1	2021792
<i>Acidobacterium</i> MP5ACTX9	2020006
<i>Synechococcus elongatus</i> PCC 6301	2018224
<i>Xanthomonas axonopodis</i> citrumelo F1	2016446
<i>Caulobacter segnis</i> ATCC 21756	2014674
<i>Desulfotomaculum kuznetsovii</i> DSM 6115	2012906
<i>Fluviicola taffensis</i> DSM 16823	2011142
<i>Lactobacillus salivarius</i> UCC118	2009384
<i>Rickettsia bellii</i> OSU 85 389	2007630
<i>Rickettsia rickettsii</i> Sheila Smith	2005880
<i>Rhodopseudomonas palustris</i> CGA009	2004134
<i>Desulfomicrobium baculatum</i> DSM 4028	2002394
<i>Haemophilus influenzae</i> Rd KW20	2000658
<i>Eubacterium eligens</i> ATCC 27750	1998928
<i>Geobacter sulfurreducens</i> PCA	1997200
<i>Methylocella silvestris</i> BL2	1995478
<i>Escherichia coli</i> IAI1	1993760
<i>Ignicoccus hospitalis</i> KIN4 I	1992046
<i>Delftia</i> Cs1 4	1990336
<i>Micromonospora</i> L5	1988632
<i>Methylibium petroleiphilum</i> PM1	1986932
<i>Terriglobus saanensis</i> SP1PR4	1985236
<i>Xanthomonas campestris</i> B100	1983544
<i>Lactobacillus rhamnosus</i> Lc 705	1981856
<i>Chlamydophila abortus</i> S26 3	1980174

<i>Pantoea</i> At 9b	1978494
<i>Geobacter lovleyi</i> SZ	1976820
<i>Rhodobacter capsulatus</i> SB 1003	1975150
<i>Bifidobacterium longum</i> JCM 1217	1973484
<i>Sodalis glossinidius morsitans</i>	1971822
<i>Bifidobacterium longum</i> DJO10A	1970164
<i>Leuconostoc gasicomitatum</i> LMG 18811	1968510
<i>Streptococcus pyogenes</i> MGAS6180	1966862
<i>Staphylococcus aureus</i> N315	1965216
<i>Leptospira interrogans</i> serovar Copenhageni Fiocruz L1 130	1963574
<i>Ramlibacter tataouinensis</i> TTB310	1961938
<i>Variovorax paradoxus</i> EPS	1960306
<i>Streptococcus pyogenes</i> M1 GAS	1958676
<i>Staphylococcus aureus</i> Newman	1957052
<i>Methylobacterium populi</i> BJ001	1955430
<i>Sulfurimonas autotrophica</i> DSM 16294	1953814
<i>Salmonella enterica</i> serovar Schwarzengrund CVM19633	1952202
<i>Caldicellulosiruptor saccharolyticus</i> DSM 8903	1950592
<i>Brucella melitensis</i> biovar Abortus 2308	1948988
<i>Denitrovibrio acetiphilus</i> DSM 12809	1947386
<i>Leptospira interrogans</i> serovar Lai 56601	1945790
<i>Sulfobacillus acidophilus</i> TPY	1944198
<i>Burkholderia gladioli</i> BSR3	1942608
<i>Oligotropha carboxidovorans</i> OM5	1941022
<i>Brucella suis</i> ATCC 23445	1939442
<i>Thermococcus onnurineus</i> NA1	1937864
<i>Vibrio cholerae</i> MJ 1236	1936290
<i>Pantoea vagans</i> C9 1	1934720
<i>Methanotorris igneus</i> Kol 5	1933154
<i>Yersinia pestis</i> CO92	1931592
<i>Anaeromyxobacter dehalogenans</i> 2CP C	1930034
<i>Burkholderia mallei</i> NCTC 10247	1928480
<i>Enterococcus faecalis</i> V583	1926928
<i>Xanthomonas campestris</i> ATCC 33913	1925382
<i>Pseudomonas mendocina</i> ymp	1923838
<i>Acidaminococcus intestini</i> RyC MR95	1922298
<i>Klebsiella pneumoniae</i> NTUH K2044	1920762
<i>Bacillus anthracis</i> Ames Ancestor	1919230
<i>Methylovorus</i> MP688	1917702
<i>Methanocaldococcus jannaschii</i> DSM 2661	1916176
<i>Rickettsia peacockii</i> Rustic	1914656
<i>Geodermatophilus obscurus</i> DSM 43160	1913138
<i>Methylobacterium nodulans</i> ORS 2060	1911624
<i>Aeromonas veronii</i> B565	1910112
<i>Clostridium difficile</i> R20291	1908606
<i>Candidatus Azobacteroides pseudotrichonymphae</i> genomovar CFP2	1907102

<i>Ralstonia solanacearum</i> GMI1000	1905602
<i>Nitratiruptor</i> SB155 2	1904106
<i>Exiguobacterium sibiricum</i> 255 15	1902614
<i>Buchnera aphidicola</i> <i>Cinara tujafilina</i>	1901124
<i>Thermus scotoductus</i> SA 01	1899638
<i>Lactobacillus sakei</i> 23K	1898156
<i>Streptococcus pyogenes</i> MGAS10270	1896676
<i>Sulfurimonas denitrificans</i> DSM 1251	1895202
<i>Thermoanaerobacter pseudethanolicus</i> ATCC 33223	1893730
<i>Anaeromyxobacter dehalogenans</i> 2CP 1	1892260
<i>Shewanella oneidensis</i> MR 1	1890796
<i>Ehrlichia ruminantium</i> Gardel	1889334
<i>Pseudomonas syringae</i> tomato DC3000	1887876
<i>Jonesia denitrificans</i> DSM 20603	1886420
<i>Staphylococcus aureus</i> USA300 TCH1516	1884968
<i>Vibrio fischeri</i> ES114	1883520
<i>Shewanella baltica</i> OS195	1882076
<i>Burkholderia</i> CCGE1003	1880634
<i>Mycobacterium avium</i> paratuberculosis K 10	1879196
<i>Desulfohalobium retbaense</i> DSM 5692	1877760
<i>Acholeplasma laidlawii</i> PG 8A	1876328
<i>Neorickettsia risticii</i> Illinois	1874900
<i>Moraxella catarrhalis</i> RH4	1873476
<i>Akkermansia muciniphila</i> ATCC BAA 835	1872054
<i>Streptococcus mutans</i> UA159	1870634
<i>Escherichia coli</i> BL21 Gold DE3 pLysS AG	1869218
<i>Roseobacter denitrificans</i> OCh 114	1867806
<i>Conexibacter woesei</i> DSM 14684	1866398
<i>Edwardsiella ictaluri</i> 93 146	1864992
<i>Sinorhizobium medicae</i> WSM419	1863588
<i>Deinococcus proteolyticus</i> MRP	1862190
<i>Methanococcus maripaludis</i> C7	1860792
<i>Cytophaga hutchinsonii</i> ATCC 33406	1859400
<i>Marivirga tractuosa</i> DSM 4126	1858010
<i>Xylanimonas cellulosilytica</i> DSM 15894	1856622
<i>Streptococcus pneumoniae</i> TCH8431 19A	1855238
<i>Burkholderia phymatum</i> STM815	1853858
<i>Leuconostoc kimchii</i> IMSNU 11154	1852480
<i>Bacillus cereus</i> G9842	1851104
<i>Roseiflexus castenholzii</i> DSM 13941	1849732
<i>Desulfurococcus mucosus</i> DSM 2162	1848364
<i>Brucella suis</i> 1330	1846998
<i>Pseudomonas syringae</i> B728a	1845636
<i>Clostridium cellulovorans</i> 743B	1844276
<i>Methanospaera stadtmanae</i> DSM 3091	1842920
<i>Thermodesulfovibrio yellowstonii</i> DSM 11347	1841566

<i>Yersinia pestis Antiqua</i>	1840216
<i>Kocuria rhizophila DC2201</i>	1838868
<i>Bacteroides vulgatus ATCC 8482</i>	1837524
<i>Baumannia cicadellinica Hc Homalodisca coagulata</i>	1836182
<i>Truepera radiovictrix DSM 17093</i>	1834842
<i>Burkholderia JV3</i>	1833506
<i>Pseudoalteromonas SM9913</i>	1832174
<i>Dickeya dadantii Ech586</i>	1830844
<i>Clostridium SY8519</i>	1829516
<i>Yersinia pseudotuberculosis YPIII</i>	1828192
<i>Candidatus Blochmannia floridanus</i>	1826870
<i>Maricaulis maris MCS10</i>	1825552
<i>Yersinia pseudotuberculosis PB1</i>	1824236
<i>Rickettsia rickettsii Iowa</i>	1822924
<i>Ureaplasma urealyticum serovar 10 ATCC 33699</i>	1821614
<i>Neisseria gonorrhoeae NCCP11945</i>	1820306
<i>Francisella tularensis FSC198</i>	1819002
<i>Zymomonas mobilis ZM4</i>	1817700
<i>Escherichia coli B REL606</i>	1816402
<i>Staphylococcus aureus MRSA252</i>	1815106
<i>Tepidanaerobacter Re1</i>	1813812
<i>Synechococcus CC9311</i>	1812522
<i>Edwardsiella tarda EIB202</i>	1811234
<i>Lactobacillus johnsonii FI9785</i>	1809948
<i>Campylobacter hominis ATCC BAA 381</i>	1808666
<i>Escherichia coli APEC O1</i>	1807388
<i>Phenyllobacterium zucineum HLK1</i>	1806110
<i>Bifidobacterium animalis lactis Bl 04</i>	1804836
<i>Mycoplasma pneumoniae M129</i>	1803564
<i>Francisella philomiragia ATCC 25017</i>	1802296
<i>Shewanella baltica OS185</i>	1801030
<i>Ignisphaera aggregans DSM 17230</i>	1799766
<i>Staphylococcus aureus ED98</i>	1798506
<i>Mycoplasma bovis PG45</i>	1797248
<i>Haloquadratum walsbyi DSM 16790</i>	1795992
<i>Yersinia pestis Pestoides F</i>	1794740
<i>Elusimicrobium minutum Pei191</i>	1793488
<i>Staphylothermus hellenicus DSM 12710</i>	1792242
<i>Rhodobacter sphaeroides 2 4 1</i>	1790996
<i>Taylorella asinigenitalis MCE3</i>	1789754
<i>Halothiobacillus neapolitanus c2</i>	1788514
<i>Propionibacterium acnes KPA171202</i>	1787276
<i>Xylella fastidiosa Temecula1</i>	1786042
<i>Lactobacillus casei Zhang</i>	1784810
<i>Desulfitobacterium hafniense Y51</i>	1783580
<i>Cyanothece ATCC 51142</i>	1782352

<i>Buchnera aphidicola</i> Tuc7	1781128
<i>Shewanella sediminis</i> HAW EB3	1779906
<i>Polynucleobacter necessarius asymbioticus</i> QLW P1DMWA 1	1778686
<i>Borrelia hermsii</i> DAH	1777470
<i>Bifidobacterium animalis lactis</i> AD011	1776256
<i>Bacillus subtilis</i> BSn5	1775044
<i>Campylobacter jejuni</i> NCTC 11168	1773834
<i>Burkholderia ambifaria</i> AMMD	1772626
<i>Lactococcus lactis cremoris</i> MG1363	1771422
<i>Ralstonia solanacearum</i> PSI07	1770220
<i>Arcobacter nitrofigilis</i> DSM 7299	1769020
<i>Caulobacter crescentus</i> CB15	1767822
<i>Bdellovibrio bacteriovorus</i> HD100	1766628
<i>Pedobacter saltans</i> DSM 12145	1765436
<i>Marinomonas</i> MWYL1	1764246
<i>Bradyrhizobium</i> BTAi1	1763058
<i>Burkholderia ambifaria</i> MC40 6	1761872
<i>Burkholderia multivorans</i> ATCC 17616	1760690
<i>Collimonas fungivorans</i> Ter331	1759508
<i>Nanoarchaeum equitans</i> Kin4 M	1758330
<i>Butyrivibrio proteoclasticus</i> B316	1757156
<i>Streptomyces SirexAA E</i>	1755982
<i>Shigella flexneri</i> 2a 301	1754810
<i>Burkholderia glumae</i> BGR1	1753642
<i>Chlamydia trachomatis</i> L2c	1752476
<i>Thermosynechococcus elongatus</i> BP 1	1751312
<i>Desulfotalea psychrophila</i> LSv54	1750150
<i>Burkholderia vietnamiensis</i> G4	1748990
<i>Gardnerella vaginalis</i> 409 05	1747834
<i>Candidatus Midichloria mitochondrii</i> IricVA	1746678
<i>Borrelia bissetii</i> DN127	1745526
<i>Mycobacterium africanum</i> GM041182	1744376
<i>Sulfolobus tokodaii</i> 7	1743228
<i>Sulfolobus islandicus</i> M 16 27	1742082
<i>Methanococcus maripaludis</i> X1	1740938
<i>Sorangium cellulosum</i> So ce 56	1739798
<i>Zobellia galactanivorans</i>	1738658
<i>Methylobacterium chloromethanicum</i> CM4	1737522
<i>Desulfovibrio alaskensis</i> G20	1736386
<i>Thermoproteus tenax</i> Kra 1	1735254
<i>Bacillus subtilis</i> 168	1734124
<i>Helicobacter pylori</i> P12	1732996
<i>Streptococcus suis</i> 05ZYH33	1731870
<i>Escherichia coli</i> ED1a	1730748
<i>Thermoanaerobacter brockii finnii</i> Ako 1	1729626
<i>Arthrobacter arilaitensis</i> Re117	1728506

<i>Methanopyrus kandleri</i> AV19	1727390
<i>Bifidobacterium bifidum</i> S17	1726276
<i>Escherichia coli</i> UMN026	1725162
<i>Bacillus thuringiensis</i> BMB171	1724052
<i>Burkholderia</i> CCGE1002	1722944
<i>Ruegeria pomeroyi</i> DSS 3	1721838
<i>Pyrobaculum aerophilum</i> IM2	1720734
<i>Asticcacaulis excentricus</i> CB 48	1719632
<i>Neisseria meningitidis</i> alpha14	1718532
<i>Thermofilum pendens</i> Hrk 5	1717434
<i>Jannaschia</i> CCS1	1716338
<i>Francisella tularensis holarctica</i> FTNF002 00	1715244
<i>Shigella dysenteriae</i> Sd197	1714154
<i>Streptococcus thermophilus</i> LMD 9	1713064
<i>Methanococcus vannielii</i> SB	1711976
<i>Shewanella baltica</i> OS155	1710892
<i>Propionibacterium acnes</i> SK137	1709808
<i>Bacillus subtilis spizizenii</i> W23	1708726
<i>Achromobacter xylosoxidans</i> A8	1707648
<i>Ochrobactrum anthropi</i> ATCC 49188	1706570
<i>Rhodococcus ruber</i> ATCC 17100	1705496
<i>Cenarchaeum symbiosum</i> A	1704422
<i>Halomonas elongata</i> DSM 2581	1703352
<i>Burkholderia pseudomallei</i> K96243	1702282
<i>Bartonella tribocorum</i> CIP 105476	1701216
<i>Haemophilus parasuis</i> SH0165	1700152
<i>Rickettsia akari</i> Hartford	1699088
<i>Streptomyces violaceusniger</i> Tu 4113	1698028
<i>Candidatus Blochmannia pennsylvanicus</i> BPEN	1696968
<i>Halogeometricum borinquense</i> DSM 11551	1695912
<i>Pectobacterium carotovorum</i> PC1	1694856
<i>Parabacteroides distasonis</i> ATCC 8503	1693804
<i>Acidithiobacillus ferrooxidans</i> ATCC 53993	1692752
<i>Desulfotomaculum reducens</i> MI 1	1691702
<i>Caldicellulosiruptor kristjanssonii</i> 177R1B	1690656
<i>Photorhabdus asymbiotica</i> ATCC 43949	1689610
<i>Flavobacterium bacterium</i> HTCC2170	1688568
<i>Shewanella halifaxensis</i> HAW EB4	1687526
<i>Planctomyces brasiliensis</i> DSM 5305	1686486
<i>Mesoplasma florum</i> L1	1685448
<i>Clostridium phytofermentans</i> ISDg	1684414
<i>Streptosporangium roseum</i> DSM 43021	1683380
<i>Agrobacterium</i> H13 3	1682348
<i>Shewanella</i> MR 4	1681318
<i>Acinetobacter baumannii</i> AB307 0294	1680290
<i>Shewanella</i> W3 18 1	1679264

<i>Spirochaeta coccoides</i> DSM 17374	1678240
<i>Pyrococcus abyssi</i> GE5	1677218
<i>Escherichia coli</i> UTI89	1676196
<i>Francisella tularensis holarctica</i> OSU18	1675178
<i>Burkholderia cenocepacia</i> AU 1054	1674162
<i>Halobacterium salinarum</i> R1	1673146
<i>Kosmotoga olearia</i> TBF 19 5 1	1672134
<i>Streptococcus agalactiae</i> A909	1671122
<i>Nakamurella multipartita</i> DSM 44233	1670112
<i>Escherichia coli</i> 55989	1669104
<i>Clostridium botulinum</i> F Langeland	1668100
<i>Corynebacterium glutamicum</i> ATCC 13032	1667096
<i>Acidaminococcus fermentans</i> DSM 20731	1666092
<i>Aliivibrio salmonicida</i> LFI1238	1665092
<i>Cyanothece</i> PCC 7822	1664094
<i>Chlamydophila caviae</i> GPIC	1663098
<i>Cellulophaga lytica</i> DSM 7489	1662102
<i>Mycoplasma suis</i> KI3806	1661110
<i>Thermoproteus uzoniensis</i> 768 20	1660118
<i>Sphaerobacter thermophilus</i> DSM 20745	1659128
<i>Methylobacterium extorquens</i> AM1	1658140
<i>Saccharophagus degradans</i> 2 40	1657154
<i>Orientia tsutsugamushi</i> Boryong	1656170
<i>Escherichia coli</i> O127 H6 E2348 69	1655188
<i>Bifidobacterium longum infantis</i> 157F	1654206
<i>Kitasatospora setae</i> KM 6054	1653228
<i>Staphylococcus pseudintermedius</i> HKU10 03	1652250
<i>Campylobacter lari</i> RM2100	1651274
<i>Magnetococcus</i> MC 1	1650300
<i>Desulfovibrio salexigens</i> DSM 2638	1649328
<i>Treponema primitia</i> ZAS 2	1648358
<i>Bacteroides fragilis</i> NCTC 9343	1647388
<i>Deinococcus deserti</i> VCD115	1646422
<i>Aggregatibacter aphrophilus</i> NJ8700	1645456
<i>Colwellia psychrerythraea</i> 34H	1644492
<i>Thioalkalivibrio sulfidophilus</i> HL EbGr7	1643530
<i>Acidothermus cellulolyticus</i> 11B	1642570
<i>Rhodopirellula baltica</i> SH 1	1641612
<i>Methylothermobacter mobilis</i> JLW8	1640654
<i>Pseudomonas fluorescens</i> Pf0 1	1639700
<i>Arthrobacter chlorophenolicus</i> A6	1638746
<i>Thermotoga thermarum</i> DSM 5069	1637794
<i>Fingoldia magna</i> ATCC 29328	1636844
<i>Bacillus cereus</i> biovar anthracis CI	1635896
<i>Rickettsia canadensis</i> McKiel	1634948
<i>Chlamydophila pecorum</i> E58	1634002

<i>Mycobacterium tuberculosis</i> H37Rv	1633060
<i>Proteus mirabilis</i> HI4320	1632118
<i>Cupriavidus metallidurans</i> CH34	1631176
<i>Clostridium botulinum</i> B1 Okra	1630238
<i>Mycoplasma bovis</i> Hubei 1	1629300
<i>Enterobacter cloacae</i> SCF1	1628366
<i>Wolbachia</i> wRi	1627432
<i>Myxococcus xanthus</i> DK 1622	1626498
<i>Streptococcus pyogenes</i> NZ131	1625568
<i>Shewanella</i> ANA 3	1624638
<i>Clostridium beijerinckii</i> NCIMB 8052	1623712
<i>Candidatus Amoebophilus asiaticus</i> 5a2	1622786
<i>Burkholderia cenocepacia</i> J2315	1621860
<i>Weissella koreensis</i> KACC 15510	1620938
<i>Ralstonia pickettii</i> 12J	1620016
<i>Staphylococcus saprophyticus</i> ATCC 15305	1619098
<i>Thermococcus sibiricus</i> MM 739	1618180
<i>Streptococcus pyogenes</i> MGAS9429	1617262
<i>Planctomyces limnophilus</i> DSM 3776	1616348
<i>Cyclobacterium marinum</i> DSM 745	1615434
<i>Methanobacterium</i> AL 21	1614522
<i>Odoribacter splanchnicus</i> DSM 20712	1613612
<i>Methanococcus voltae</i> A3	1612704
<i>Chlamydia trachomatis</i> 434 Bu	1611796
<i>Mycoplasma hyopneumoniae</i> 7448	1610890
<i>Novosphingobium aromaticivorans</i> DSM 12444	1609986
<i>Rhodothermus marinus</i> DSM 4252	1609084
<i>Burkholderia mallei</i> SAVP1	1608182
<i>Mycoplasma hominis</i> ATCC 23114	1607282
<i>Xanthobacter autotrophicus</i> Py2	1606384
<i>Methylococcus capsulatus</i> Bath	1605488
<i>Mycobacterium</i> Spyr1	1604592
<i>Marinomonas posidonica</i> IVIA Po 181	1603698
<i>Chlamydophila felis</i> Fe C 56	1602806
<i>Candidatus Protochlamydia amoebophila</i> UWE25	1601916
<i>Pseudoxanthomonas spadix</i> BD a59	1601026
<i>Saccharomonospora viridis</i> DSM 43017	1600138
<i>Streptococcus pneumoniae</i> R6	1599252
<i>Chlamydophila psittaci</i> 6BC	1598368
<i>Gluconacetobacter xylinus</i> NBRC 3288	1597484
<i>Salmonella enterica</i> serovar Paratyphi A ATCC 9150	1596602
<i>Roseburia hominis</i> A2 183	1595722
<i>Burkholderia rhizoxinica</i> HKI 454	1594844
<i>Bacillus cereus</i> ATCC 10987	1593966
<i>Yersinia pseudotuberculosis</i> IP 31758	1593090
<i>Mycobacterium leprae</i> Br4923	1592214

<i>Lactobacillus casei</i> BL23	1591342
<i>Lactobacillus delbrueckii bulgaricus</i> ND02	1590470
<i>Brucella abortus</i> S19	1589600
<i>Synechococcus</i> JA 3 3Ab	1588730
<i>Shewanella putrefaciens</i> CN 32	1587864
<i>Janthinobacterium</i> Marseille	1586998
<i>Methanococcus aeolicus</i> Nankai 3	1586132
<i>Glaciecola</i> 4H 3 7 YE 5	1585270
<i>Rickettsia conorii</i> Malish 7	1584408
<i>Pseudoalteromonas haloplanktis</i> TAC125	1583548
<i>Escherichia coli</i> ATCC 8739	1582688
<i>Leadbetterella byssophila</i> DSM 17132	1581830
<i>Candidatus Carsonella ruddii</i>	1580974
<i>Chromobacterium violaceum</i> ATCC 12472	1580120
<i>Mycobacterium</i> MCS	1579266
<i>Simkania negevensis</i> Z	1578414
<i>Vulcanisaeta moutnovskia</i> 768 28	1577564
<i>Salinispora arenicola</i> CNS 205	1576714
<i>Dictyoglomus thermophilum</i> H 6 12	1575866
<i>Vibrio splendidus</i> LGP32	1575020
<i>Leptospira biflexa</i> serovar Patoc Patoc 1 Ames	1574174
<i>Cyanothece</i> PCC 7425	1573330
<i>Lactobacillus amylovorus</i> GRL 1112	1572488
<i>Taylorella equigenitalis</i> MCE9	1571648
<i>Lactobacillus ruminis</i> ATCC 27782	1570808
<i>Clostridium difficile</i> CD196	1569970
<i>Alicyclophilus denitrificans</i> BC	1569132
<i>Acidianus hospitalis</i> W1	1568296
<i>Fervidobacterium nodosum</i> Rt17 B1	1567462
<i>Mycobacterium leprae</i> TN	1566628
<i>Tropheryma whipplei</i> Twist	1565796
<i>Paracoccus denitrificans</i> PD1222	1564966
<i>Desulfovibrio vulgaris</i> Miyazaki F	1564138
<i>Thermosipho africanus</i> TCF52B	1563310
<i>Desulfurispirillum indicum</i> S5	1562484
<i>Mycoplasma suis</i> Illinois	1561658
<i>Yersinia pestis</i> Nepal516	1560834
<i>Cellulomonas fimi</i> ATCC 484	1560012
<i>Xanthomonas oryzae</i> KACC10331	1559190
<i>Vibrio cholerae</i> O395	1558370
<i>Rickettsia africae</i> ESF 5	1557552
<i>Bacillus weihenstephanensis</i> KBAB4	1556734
<i>Variovorax paradoxus</i> S110	1555918
<i>Xanthomonas oryzae</i> PXO99A	1555104
<i>Bacteroides fragilis</i> YCH46	1554290
<i>Methanoplanus petrolearius</i> DSM 11571	1553478

<i>Francisella tularensis mediasiatica</i> FSC147	1552666
<i>Bacillus pumilus</i> SAFR 032	1551856
<i>Escherichia coli</i> O103 H2 12009	1551048
<i>Buchnera aphidicola</i> Sg <i>Schizaphis graminum</i>	1550240
<i>Synechococcus</i> JA 2 3B a 2 13	1549434
<i>Shigella flexneri</i> 2a 2457T	1548630
<i>Exiguobacterium</i> AT1b	1547826
<i>Thermomonospora curvata</i> DSM 43183	1547024
<i>Lactococcus lactis cremoris</i> SK11	1546224
<i>Corynebacterium aurimucosum</i> ATCC 700975	1545424
<i>Mycoplasma hyorhinis</i> HUB 1	1544626
<i>Meiothermus ruber</i> DSM 1279	1543828
<i>Campylobacter jejuni</i> 81 176	1543032
<i>Caldicellulosiruptor hydrothermalis</i> 108	1542238
<i>Streptococcus pneumoniae</i> Taiwan19F 14	1541444
<i>Escherichia coli</i> 536	1540652
<i>Deinococcus maricopensis</i> DSM 21211	1539860
<i>Streptococcus suis</i> BM407	1539070
<i>Bacillus thuringiensis</i> serovar <i>konkukian</i> 97 27	1538282
<i>Meiothermus silvanus</i> DSM 9946	1537494
<i>Streptococcus gallolyticus</i> UCN34	1536708
<i>Salmonella enterica</i> serovar <i>Newport</i> SL254	1535924
<i>Gemmatimonas aurantiaca</i> T 27	1535140
<i>Thiomicrospira crunogena</i> XCL 2	1534356
<i>Eubacterium rectale</i> ATCC 33656	1533576
<i>Thermincola potens</i> JR	1532796
<i>Vulcanisaeta distributa</i> DSM 14429	1532016
<i>Pseudomonas putida</i> GB 1	1531238
<i>Methylophilum infernorum</i> V4	1530462
<i>Streptococcus equi</i> zooepidemicus MGCS10565	1529686
<i>Coxiella burnetii</i> CbuG Q212	1528912
<i>Anaplasma phagocytophilum</i> HZ	1528138
<i>Chlorobium luteolum</i> DSM 273	1527366
<i>Shewanella</i> MR 7	1526596
<i>Methylophilum alcaliphilum</i>	1525826
<i>Desulfobacterium autotrophicum</i> HRM2	1525058
<i>Candidatus Accumulibacter phosphatis</i> clade IIA UW 1	1524290
<i>Shewanella piezotolerans</i> WP3	1523524
<i>Arthrobacter phenanthrenivorans</i> Sphe3	1522760
<i>Acidithiobacillus caldus</i> SM 1	1521996
<i>Azospirillum</i> B510	1521232
<i>Pelobacter carbinolicus</i> DSM 2380	1520470
<i>Bacillus halodurans</i> C 125	1519710

Supplementary Table 3: Overlay data on metagenome assembly of 124 gut microbiome samples. For the 124 samples, read length was 44 and/or 75 nucleotides and the 3 insert sizes were 135, 200, 400 nucleotides [1]. Of the 124, 122 samples were assembled and profiled with 32 processor cores (4 machines with 8 cores each). MH0014 was processed with 40 processor cores while MH0012 was processed with 48 processor cores. The average computing time was 4:55. The memory usage per core was between 500 mega bytes and 2 giga-bytes. IBD: inflammatory bowel disease.

Sample	IBD	Number of sequences	Number of contigs (≥ 100 nt)	Total length (nt)	Longest contig	Computing time (h:m)
MH0001	N	45018302	42191	11611390	46485	3:06
MH0002	N	46575183	419154	106996731	159840	5:26
MH0003	N	50388076	465208	138978682	91018	5:55
MH0004	N	40299958	64770	16647746	52003	3:56
MH0005	N	39412204	34900	12013030	55829	3:09
MH0006	N	161222460	962511	256948721	201855	10:06
MH0007	N	36961474	67910	10481227	10785	3:17
MH0008	N	38158736	103056	23347007	12471	2:58
MH0009	N	58458876	494967	130258663	98955	6:59
MH0010	N	39172670	83327	24422433	37338	3:06
MH0011	N	58513980	587385	150689295	173046	5:31
MH0012	N	186073978	935974	302188253	189292	8:13
MH0013	N	40051756	86723	16553992	93150	2:56
MH0014	N	56313876	502034	149796789	152916	5:09
MH0015	N	33016500	68071	9805671	14237	2:53
MH0016	N	54400556	476090	137428961	138300	5:53
MH0017	N	36156056	71786	14076110	16802	2:48
MH0018	N	36641824	41408	13463875	48221	2:52
MH0019	N	38859574	116745	21449250	26646	2:56
MH0020	N	45832716	307480	106168610	118057	4:34
MH0021	N	26262536	356138	81558840	91507	3:55
MH0022	N	37116608	51178	12419331	18261	3:12
MH0023	N	37785104	59630	14932565	42874	4:18
MH0024	N	54920805	296450	76043981	112472	4:33
MH0025	N	55611424	510306	129194470	75609	6:23
MH0026	N	37486710	250505	77495095	119128	4:04
MH0027	N	32379416	37674	5754439	8063	2:47
MH0028	N	55157588	417252	117581809	90407	4:57
MH0030	N	51646716	271761	75688147	98479	4:29
MH0031	N	55568300	374438	88255563	121543	5:09
MH0032	N	50126050	272791	58557518	62760	4:11
MH0033	N	44998898	440516	118775864	84397	5:25
MH0034	N	37402104	200160	43879052	48844	4:40
MH0035	N	49322484	449032	125591528	112441	6:06
MH0036	N	47708645	395710	108943341	67476	5:20
MH0037	N	42037386	329841	91003047	185137	4:30

MH0038	N	45491688	346958	99103988	126521	4:47
MH0039	N	42719254	480975	115740776	111761	4:47
MH0040	N	44251866	519549	134581198	60369	5:54
MH0041	N	44395542	370395	108830338	172308	4:41
MH0042	N	43441776	489225	105136225	75499	5:25
MH0043	N	49387756	508268	130057053	71790	5:55
MH0044	N	44865220	395222	115528200	266726	5:07
MH0045	N	49439210	461465	119620847	155303	5:03
MH0046	N	35802102	378975	94974924	101419	4:25
MH0047	N	26934980	215030	57895950	137473	4:28
MH0048	N	26978336	311909	65644555	84104	3:44
MH0049	N	30656592	198018	59476773	138240	3:56
MH0050	N	47794456	513211	125199765	209364	5:28
MH0051	N	25971564	313411	71104852	35831	4:06
MH0052	N	28577486	357433	81152613	34241	3:59
MH0053	N	43286304	391940	107008498	65849	5:15
MH0054	N	42267078	417833	118830901	69352	5:10
MH0055	N	47116588	456959	122201575	113972	5:26
MH0056	N	49304102	535912	109807210	56331	5:49
MH0057	N	43053324	270584	79354046	140930	4:27
MH0058	N	49833480	530008	134848584	130408	7:01
MH0059	N	41036844	591956	140331726	137703	5:53
MH0060	N	41114502	451169	105335228	78398	5:08
MH0061	N	44586960	245046	86382079	123577	4:28
MH0062	N	37106156	421940	106860875	123112	4:36
MH0063	N	45964540	401907	100119143	138218	5:01
MH0064	N	44736812	412964	98946675	83252	4:47
MH0065	N	44585626	539382	122865285	172548	6:36
MH0066	N	36117084	429794	102410038	44728	4:33
MH0067	N	44485830	301281	105721471	139383	4:31
MH0068	N	43871052	317502	95659301	120767	4:28
MH0069	N	69732814	526256	139988599	170690	6:08
MH0070	N	47929526	529726	135784415	268207	6:38
MH0071	N	46249674	428683	110732392	110890	5:02
MH0072	N	49297218	356475	96050816	95609	5:01
MH0073	N	47239818	355164	104212364	118406	4:49
MH0074	N	46032014	338221	104564599	153749	4:48
MH0075	N	47065984	488754	122144561	160277	5:24
MH0076	N	30657846	406742	96077349	68346	4:34
MH0077	N	49671284	531236	133134913	153497	7:02
MH0078	N	26055172	146778	38007790	74837	3:29
MH0079	N	27422848	302463	73619051	174281	4:25
MH0080	N	46597396	510697	132839614	151294	5:29
MH0081	N	47852459	509017	133067703	250772	5:59
MH0082	N	48353598	525957	134749581	205145	6:12
MH0083	N	47905438	471034	130094125	85667	6:06

MH0084	N	53570582	222216	57689929	103684	4:47
MH0085	N	49436638	354772	103674500	122024	4:48
MH0086	N	55436742	615206	163381790	85993	5:54
O2.UC-11	Y	38513652	244442	62847655	174510	5:32
O2.UC-12	Y	36913096	332777	81539283	104474	4:17
O2.UC-13	Y	43623490	371729	104525967	59043	4:48
O2.UC-14	Y	26944888	184961	44707281	76040	3:40
O2.UC-16	Y	42270010	188686	46599989	46107	4:42
O2.UC-17	Y	40306326	203286	50510566	106832	5:16
O2.UC-18	Y	41915008	267554	81548198	126060	4:23
O2.UC-19	Y	38460916	434435	108615044	92883	4:48
O2.UC-1	Y	42575162	361648	87515158	67491	4:27
O2.UC-20	Y	38378976	384972	99727759	86605	4:25
O2.UC-21	Y	34840550	250920	59451062	55343	4:32
O2.UC-22	Y	44248020	473338	117430127	86092	4:53
O2.UC-23	Y	38656482	310943	77040510	76378	4:35
O2.UC-24	Y	41673838	369340	88532980	71510	4:55
O2.UC-4	Y	43272944	337639	93193172	84016	4:24
V1.CD-11	N	51391696	284504	99344197	102833	4:57
V1.CD-12	Y	40610694	186790	71180559	99861	5:10
V1.CD-13	N	42562886	478445	119472769	102396	5:16
V1.CD-14	N	44025748	547055	130629184	81599	5:38
V1.CD-15	Y	40652058	187201	69088686	97686	4:36
V1.CD-1	Y	47138630	203634	67698189	119498	4:28
V1.CD-2	N	46725664	210277	54510396	72527	4:08
V1.CD-3	N	45368268	333224	84945860	179325	4:43
V1.CD-4	N	42941570	440556	116509969	79647	5:09
V1.CD-6	Y	42599132	341147	88487599	88171	4:32
V1.CD-8	N	49914030	551474	132401995	72859	6:46
V1.CD-9	N	47142346	380253	111101210	91191	4:50
V1.UC-10	Y	42187572	549763	130377362	136740	5:48
V1.UC-13	Y	38944124	375970	108376694	84398	4:26
V1.UC-14	Y	49645840	408344	116886829	123686	5:13
V1.UC-15	Y	46711104	418000	114122667	151163	5:06
V1.UC-17	Y	35523980	358390	88025111	29089	4:15
V1.UC-18	N	48385658	369172	106999653	116163	5:10
V1.UC-19	N	49238118	473194	128496132	330864	5:34
V1.UC-21	Y	46362496	382460	105530619	128907	4:58
V1.UC-6	N	43160944	620540	149233782	126763	6:20
V1.UC-7	N	36944164	253405	67524998	109311	5:08
V1.UC-8	N	46693474	546670	145054113	108830	5:46
V1.UC-9	N	46910726	511461	121407469	172249	5:34

References

- [1] Qin, J., Li, R., Raes, J., Arumugam, M., Burgdorf, K.S. *et al.* A human gut microbial gene catalogue established by metagenomic sequencing. *Nature* **464**, 59–65 (2010).

Supplementary Table 4: List of genomes used for coloring de Bruijn graphs. There are 1492 finished bacterial genomes and 1744 draft bacterial genomes listed. For draft genomes, only the accession of the first sequence is listed.

Name	Accession
<i>Homo sapiens</i>	version GRCh37.p5
<i>Acaryochloris marina MBIC11017</i>	NC_009925.1; NC_009926.1; NC_009927.1; NC_009928.1; NC_009929.1;
NC_009930.1; NC_009931.1; NC_009932.1; NC_009933.1; NC_009934.1	
<i>Acetobacter pasteurianus IFO 3283 01</i>	NC_013209.1; NC_013210.1; NC_013211.1; NC_013212.1; NC_013213.1; NC_013214.1; NC_013215.1
<i>Acetohalobium arabaticum DSM 5501</i>	NC_014378.1
<i>Acholeplasma laidlawii PG 8A</i>	NC_010163.1
<i>Achromobacter xylosoxidans A8</i>	NC_014640.1; NC_014641.1; NC_014642.1
<i>Acidaminococcus fermentans DSM 20731</i>	NC_013740.1
<i>Acidaminococcus intestini RyC MR95</i>	NC_016077.1
<i>Acidianus hospitalis W1</i>	NC_015518.1
<i>Acidilobus saccharovorans 345 15</i>	NC_014374.1
<i>Acidimicrobium ferrooxidans DSM 10331</i>	NC_013124.1
<i>Acidiphilium cryptum JF 5</i>	NC_009467.1; NC_009468.1; NC_009469.1; NC_009470.1; NC_009471.1;
NC_009472.1; NC_009473.1; NC_009474.1; NC_009484.1	
<i>Acidiphilium multivorum AIU301</i>	NC_015178.1; NC_015179.1; NC_015180.1; NC_015181.1; NC_015182.1;
NC_015186.1; NC_015187.1; NC_015188.1; NC_015189.1	
<i>Acidithiobacillus caldus SM 1</i>	NC_015850.1; NC_015851.1; NC_015852.1; NC_015853.1; NC_015854.1
<i>Acidithiobacillus ferrivorans SS3</i>	NC_015942.1
<i>Acidithiobacillus ferrooxidans ATCC 23270</i>	NC_011761.1
<i>Acidithiobacillus ferrooxidans ATCC 53993</i>	NC_011206.1
<i>Acidobacterium capsulatum ATCC 51196</i>	NC_012483.1
<i>Acidobacterium MP5ACTX9</i>	NC_015057.1; NC_015058.1; NC_015059.1; NC_015060.1; NC_015064.1; NC_015065.1
<i>Acidothermus cellulolyticus 11B</i>	NC_008578.1
<i>Acidovorax avenae ATCC 19860</i>	NC_015138.1
<i>Acidovorax citrulli AAC00 1</i>	NC_008752.1
<i>Acidovorax ebreus TPSY</i>	NC_011992.1
<i>Acidovorax JS42</i>	NC_008765.1; NC_008766.1; NC_008782.1
<i>Aciduliprofundum boonei T469</i>	NC_013926.1
<i>Acinetobacter ADP1</i>	NC_005966.1
<i>Acinetobacter baumannii AB0057</i>	NC_011585.1; NC_011586.1
<i>Acinetobacter baumannii AB307 0294</i>	NC_011595.1
<i>Acinetobacter baumannii ACICU</i>	NC_010605.1; NC_010606.1; NC_010611.1
<i>Acinetobacter baumannii ATCC 17978</i>	NC_009083.1; NC_009084.1; NC_009085.1
<i>Acinetobacter baumannii AYE</i>	NC_010401.1; NC_010402.1; NC_010403.1; NC_010404.1; NC_010410.1
<i>Acinetobacter baumannii SDF</i>	NC_010395.1; NC_010396.1; NC_010398.1; NC_010400.1
<i>Acinetobacter DR1</i>	NC_014259.1
<i>Actinobacillus pleuropneumoniae serovar 3 JL03</i>	NC_010278.1
<i>Actinobacillus pleuropneumoniae serovar 5b L20</i>	NC_009053.1
<i>Actinobacillus pleuropneumoniae serovar 7 AP76</i>	NC_010939.1; NC_010940.1; NC_010941.1; NC_010942.1
<i>Actinobacillus succinogenes 130Z</i>	NC_009655.1
<i>Actinosynnema mirum DSM 43827</i>	NC_013093.1
<i>Aerococcus urinae ACS 120 V Col10a</i>	NC_015278.1
<i>Aeromonas hydrophila ATCC 7966</i>	NC_008570.1
<i>Aeromonas salmonicida A449</i>	NC_004923.1; NC_004924.1; NC_004925.1; NC_009348.1; NC_009349.1; NC_009350.1
<i>Aeromonas veronii B565</i>	NC_015424.1
<i>Aeropyrum pernix K1</i>	NC_000854.2
<i>Aggregatibacter actinomycetemcomitans D11S 1</i>	NC_013416.1; NC_013438.1; NC_013597.1; NC_014629.1
<i>Aggregatibacter aphrophilus NJ8700</i>	NC_012913.1
<i>Agrobacterium H13 3</i>	NC_015183.1; NC_015184.1; NC_015508.1
<i>Agrobacterium radiobacter K84</i>	NC_011983.1; NC_011985.1; NC_011987.1; NC_011990.1; NC_011994.1
<i>Agrobacterium tumefaciens C58</i>	NC_003062.2; NC_003063.2; NC_003064.2; NC_003065.3
<i>Agrobacterium vitis S4</i>	NC_011981.1; NC_011982.1; NC_011984.1; NC_011986.1; NC_011988.1; NC_011989.1; NC_011991.1

<i>Akkermansia muciniphila</i> ATCC BAA 835	NC_010655.1
<i>Alcanivorax borkumensis</i> SK2	NC_008260.1
<i>Alicyclophilus denitrificans</i> BC	NC_014908.1; NC_014910.1; NC_014911.1
<i>Alicyclophilus denitrificans</i> K601	NC_015422.1; NC_015423.1
<i>Alicyclobacillus acidocaldarius</i> DSM 446	NC_013205.1; NC_013206.1; NC_013207.1; NC_013208.1
<i>Aliivibrio salmonicida</i> LF11238	NC_011311.1; NC_011312.1; NC_011313.1; NC_011314.1; NC_011315.1; NC_011316.1
<i>Alkalilimnicola ehrlichii</i> MLHE 1	NC_008340.1
<i>Alkaliphilus metalliredigens</i> QYMF	NC_009633.1
<i>Alkaliphilus oremlandii</i> OhLLAs	NC_009922.1
<i>Allochromatium vinosum</i> DSM 180	NC_013851.1; NC_013852.1; NC_013862.1
<i>Alteromonas macleodii</i> Deep ecotype	NC_011138.2
<i>Alteromonas</i> SN2	NC_015554.1
<i>Aminobacterium colombiense</i> DSM 12261	NC_014011.1
<i>Ammonifex degensii</i> KC4	NC_013385.1; NC_013386.1
<i>Amycolatopsis mediterranei</i> U32	NC_014318.1
<i>Amycolalicoccus subflavus</i> DQS3 9A1	NC_015560.1; NC_015561.1; NC_015564.1
<i>Anabaena variabilis</i> ATCC 29413	NC_007410.1; NC_007411.1; NC_007412.1; NC_007413.1; NC_014000.1
<i>Anaerococcus prevotii</i> DSM 20548	NC_013164.1; NC_013171.1
<i>Anaerolinea thermophila</i> UNI 1	NC_014960.1
<i>Anaeromyxobacter dehalogenans</i> 2CP 1	NC_011891.1
<i>Anaeromyxobacter dehalogenans</i> 2CP C	NC_007760.1
<i>Anaeromyxobacter</i> Fw109 5	NC_009675.1
<i>Anaeromyxobacter</i> K	NC_011145.1
<i>Anaplasma centrale</i> Israel	NC_013532.1
<i>Anaplasma marginale</i> Florida	NC_012026.1
<i>Anaplasma marginale</i> Maries	NC_004842.2
<i>Anaplasma phagocytophilum</i> HZ	NC_007797.1
<i>Anoxybacillus flavithermus</i> WK1	NC_011567.1
<i>Aquifex aeolicus</i> VF5	NC_000918.1; NC_001880.1
<i>Arcanobacterium haemolyticum</i> DSM 20595	NC_014218.1
<i>Archaeoglobus fulgidus</i> DSM 4304	NC_000917.1
<i>Archaeoglobus profundus</i> DSM 5631	NC_013741.1; NC_013742.1
<i>Archaeoglobus veneficus</i> SNP6	NC_015320.1
<i>Arcobacter butzleri</i> RM4018	NC_009850.1
<i>Arcobacter nitrofigilis</i> DSM 7299	NC_014166.1
<i>Aromatoleum aromaticum</i> EbN1	NC_006513.1; NC_006823.1; NC_006824.1
<i>Arthrobacter arilaitensis</i> Re117	NC_014548.1; NC_014549.1; NC_014550.1
<i>Arthrobacter aurescens</i> TC1	NC_008711.1; NC_008712.1; NC_008713.1
<i>Arthrobacter chlorophenolicus</i> A6	NC_011879.1; NC_011881.1; NC_011886.1
<i>Arthrobacter</i> FB24	NC_008537.1; NC_008538.1; NC_008539.1; NC_008541.1
<i>Arthrobacter phenanthrenivorans</i> Sphe3	NC_015145.1; NC_015146.1; NC_015147.1
<i>Aster yellows</i> witches broom phytoplasma AYWB	NC_007716.1; NC_007717.1; NC_007718.1; NC_007719.1; NC_007720.1
<i>Asticcacaulis excentricus</i> CB 48	NC_014816.1; NC_014817.1; NC_014818.1; NC_014819.1
<i>Atopobium parvulum</i> DSM 20469	NC_013203.1
<i>Azoarcus</i> BH72	NC_008702.1
<i>Azorhizobium caulinodans</i> ORS 571	NC_009937.1
<i>Azospirillum</i> B510	NC_013854.1; NC_013855.1; NC_013856.1; NC_013857.1; NC_013858.1; NC_013859.1; NC_013860.1
<i>Azotobacter vinelandii</i> DJ	NC_012560.1
<i>Bacillus amyloliquefaciens</i> DSM 7	NC_014551.1
<i>Bacillus amyloliquefaciens</i> FZB42	NC_009725.1
<i>Bacillus anthracis</i> A0248	NC_012655.1; NC_012656.1; NC_012659.1
<i>Bacillus anthracis</i> Ames Ancestor	NC_007322.2; NC_007323.3; NC_007530.2
<i>Bacillus anthracis</i> Ames	NC_003997.3
<i>Bacillus anthracis</i> CDC 684	NC_012577.1; NC_012579.1; NC_012581.1
<i>Bacillus anthracis</i> Sterne	NC_005945.1
<i>Bacillus atrophaceus</i> 1942	NC_014639.1
<i>Bacillus cellulosilyticus</i> DSM 2522	NC_014829.1

<i>Bacillus cereus</i> 03BB102	NC_012472.1; NC_012473.1
<i>Bacillus cereus</i> AH187	NC_011654.1; NC_011655.1; NC_011656.1; NC_011657.1; NC_011658.1
<i>Bacillus cereus</i> AH820	NC_011771.1; NC_011773.1; NC_011776.1; NC_011777.1
<i>Bacillus cereus</i> ATCC 10987	NC_003909.8; NC_005707.1
<i>Bacillus cereus</i> ATCC 14579	NC_004721.2; NC_004722.1
<i>Bacillus cereus</i> B4264	NC_011725.1
<i>Bacillus cereus</i> biovar anthracis CI	NC_014331.1; NC_014332.1; NC_014333.1; NC_014335.1
<i>Bacillus cereus</i> E33L	NC_006274.1; NC_007103.1; NC_007104.1; NC_007105.1; NC_007106.1; NC_007107.1
<i>Bacillus cereus</i> G9842	NC_011772.1; NC_011774.1; NC_011775.1
<i>Bacillus cereus</i> Q1	NC_011969.1; NC_011971.1; NC_011973.1
<i>Bacillus clausii</i> KSM K16	NC_006582.1
<i>Bacillus coagulans</i> 2 6	NC_015634.1
<i>Bacillus coagulans</i> 36D1	NC_016023.1
<i>Bacillus cytotoxicus</i> NVH 391 98	NC_009673.1; NC_009674.1
<i>Bacillus halodurans</i> C 125	NC_002570.2
<i>Bacillus licheniformis</i> ATCC 14580	NC_006270.3
<i>Bacillus licheniformis</i> ATCC 14580	NC_006322.1
<i>Bacillus megaterium</i> DSM319	NC_014103.1
<i>Bacillus megaterium</i> QM B1551	NC_004604.2; NC_010008.2; NC_010009.2; NC_010010.2;
NC_014019.1; NC_014023.1; NC_014025.1; NC_014031.1	
<i>Bacillus pseudofirmus</i> OF4	NC_013791.2; NC_013792.1; NC_013793.1
<i>Bacillus pumilus</i> SAFR 032	NC_009848.1
<i>Bacillus selenitireducens</i> MLS10	NC_014219.1
<i>Bacillus subtilis</i> 168	NC_000964.3
<i>Bacillus subtilis</i> BSn5	NC_014976.1
<i>Bacillus subtilis</i> spizizenii TU B 10	NC_016047.1
<i>Bacillus subtilis</i> spizizenii W23	NC_014479.1
<i>Bacillus thuringiensis</i> Al Hakam	NC_008598.1; NC_008600.1
<i>Bacillus thuringiensis</i> BMB171	NC_014171.1; NC_014172.1
<i>Bacillus thuringiensis</i> serovar konkukian 97 27	NC_005957.1; NC_006578.1
<i>Bacillus tusciae</i> DSM 2912	NC_014098.1
<i>Bacillus weihenstephanensis</i> KBAB4	NC_010180.1; NC_010181.1; NC_010182.1; NC_010183.1; NC_010184.1
<i>Bacteroides fragilis</i> NCTC 9343	NC_003228.3; NC_006873.1
<i>Bacteroides fragilis</i> YCH46	NC_006297.1; NC_006347.1
<i>Bacteroides helcogenes</i> P 36 108	NC_014933.1
<i>Bacteroides salanitronis</i> DSM 18170	NC_015164.1; NC_015165.1; NC_015166.1; NC_015168.1
<i>Bacteroides thetaiotaomicron</i> VPI 5482	NC_004663.1; NC_004703.1
<i>Bacteroides vulgatus</i> ATCC 8482	NC_009614.1
<i>Bartonella bacilliformis</i> KC583	NC_008783.1
<i>Bartonella clarridgeiae</i> 73	NC_014932.1
<i>Bartonella grahamii</i> as4aup	NC_012846.1; NC_012847.1
<i>Bartonella henselae</i> Houston 1	NC_005956.1
<i>Bartonella quintana</i> Toulouse	NC_005955.1
<i>Bartonella tribocorum</i> CIP 105476	NC_010160.1; NC_010161.1
<i>Baumannia cicadellinicola</i> Hc Homalodisca coagulata	NC_007984.1
<i>Bdellovibrio bacteriovorus</i> HD100	NC_005363.1
<i>Beijerinckia indica</i> ATCC 9039	NC_010578.1; NC_010580.1; NC_010581.1
<i>Beutenbergia cavernae</i> DSM 12333	NC_012669.1
<i>Bifidobacterium adolescentis</i> ATCC 15703	NC_008618.1
<i>Bifidobacterium animalis lactis</i> AD011	NC_011835.1
<i>Bifidobacterium animalis lactis</i> Bl 04	NC_012814.1
<i>Bifidobacterium animalis lactis</i> DSM 10140	NC_012815.1
<i>Bifidobacterium bifidum</i> PRL2010	NC_014638.1
<i>Bifidobacterium bifidum</i> S17	NC_014616.1
<i>Bifidobacterium dentium</i> Bd1	NC_013714.1
<i>Bifidobacterium longum</i> BBMN68	NC_014656.1
<i>Bifidobacterium longum</i> DJO10A	NC_004252.1; NC_004253.1; NC_010816.1

<i>Bifidobacterium longum infantis 157F</i>	NC_015052.1; NC_015053.1; NC_015066.1
<i>Bifidobacterium longum infantis ATCC 15697</i>	NC_011593.1
<i>Bifidobacterium longum JCM 1217</i>	NC_015067.1
<i>Bifidobacterium longum JDM301</i>	NC_014169.1
<i>Bifidobacterium longum NCC2705</i>	NC_004307.2; NC_004943.1
<i>Blattabacterium Blattella germanica Bge</i>	NC_013454.1; NC_015679.1
<i>Blattabacterium Mastotermes darwiniensis MADAR</i>	NC_016146.1; NC_016150.1
<i>Blattabacterium Periplaneta americana BPLAN</i>	NC_013418.2; NC_013419.1
<i>Bordetella avium 197N</i>	NC_010645.1
<i>Bordetella bronchiseptica RB50</i>	NC_002927.3
<i>Bordetella parapertussis 12822</i>	NC_002928.3
<i>Bordetella pertussis Tohama I</i>	NC_002929.2
<i>Bordetella petrii DSM 12804</i>	NC_010170.1
<i>Borrelia afzelii PKo</i>	NC_008273.1; NC_008274.1; NC_008277.1; NC_008564.1; NC_008565.1; NC_008566.1; NC_008567.1; NC_008568.1; NC_008569.1; NT_167350.1; NT_167351.1; NT_167352.1
<i>Borrelia bissettii DN127</i>	NC_015903.1; NC_015904.1; NC_015905.1; NC_015906.1; NC_015907.1; NC_015908.1; NC_015909.1; NC_015910.1; NC_015911.1; NC_015915.1; NC_015916.1; NC_015917.1; NC_015918.1; NC_015919.1; NC_015920.1; NC_015921.1; NC_015922.1
<i>Borrelia burgdorferi B31</i>	NC_000948.1; NC_000949.1; NC_000950.1; NC_000951.1; NC_000952.1; NC_000953.1; NC_000954.1; NC_000955.1; NC_000956.1; NC_000957.1; NC_001318.1; NC_001849.1; NC_001850.1; NC_001851.1; NC_001852.1; NC_001853.1; NC_001854.1;
NC_001855.1; NC_001856.1; NC_001857.1; NC_001903.1; NC_001904.1	
<i>Borrelia burgdorferi ZS7</i>	NC_011720.1; NC_011722.1; NC_011724.1; NC_011728.1; NC_011731.1; NC_011735.1; NC_011736.1; NC_011778.1; NC_011779.1; NC_011780.1; NC_011781.1; NC_011782.1; NC_011783.1; NC_011784.1; NC_011785.1
<i>Borrelia duttonii Ly</i>	NC_011224.1; NC_011226.1; NC_011229.1; NC_011245.1; NC_011247.1; NC_011248.1; NC_011249.1; NC_011250.1; NC_011251.1; NC_011254.1; NC_011256.1; NC_011257.1;
NC_011259.1; NC_011261.1; NC_011262.1; NC_011264.1; NC_011265.1	
<i>Borrelia garinii PBi</i>	NC_006128.1; NC_006129.1; NC_006156.1
<i>Borrelia hermsii DAH</i>	NC_010673.1
<i>Borrelia recurrentis A1</i>	NC_011244.1; NC_011246.1; NC_011252.1; NC_011253.1;
NC_011255.1; NC_011258.1; NC_011260.1; NC_011263.1	
<i>Borrelia turicatae 91E135</i>	NC_008710.1
<i>Brachybacterium faecium DSM 4810</i>	NC_013172.1
<i>Brachyspira hyodysenteriae WA1</i>	NC_012225.1; NC_012226.1
<i>Brachyspira murdochii DSM 12563</i>	NC_014150.1
<i>Brachyspira pilosicoli 95 1000</i>	NC_014330.1
<i>Bradyrhizobium BTAi1</i>	NC_009475.1; NC_009485.1
<i>Bradyrhizobium japonicum USDA 110</i>	NC_004463.1
<i>Bradyrhizobium ORS 278</i>	NC_009445.1
<i>Brevibacillus brevis NBRC 100599</i>	NC_012491.1
<i>Brevundimonas subvibrioides ATCC 15264</i>	NC_014375.1
<i>Brucella abortus bv 1 9 941</i>	NC_006932.1; NC_006933.1
<i>Brucella abortus S19</i>	NC_010740.1; NC_010742.1
<i>Brucella canis ATCC 23365</i>	NC_010103.1; NC_010104.1
<i>Brucella melitensis ATCC 23457</i>	NC_012441.1; NC_012442.1
<i>Brucella melitensis biovar Abortus 2308</i>	NC_007618.1; NC_007624.1
<i>Brucella melitensis bv 1 16M</i>	NC_003317.1; NC_003318.1
<i>Brucella microti CCM 4915</i>	NC_013118.1; NC_013119.1
<i>Brucella ovis ATCC 25840</i>	NC_009504.1; NC_009505.1
<i>Brucella pinnipedialis B2 94</i>	NC_015857.1; NC_015858.1
<i>Brucella suis 1330</i>	NC_004310.3; NC_004311.2
<i>Brucella suis ATCC 23445</i>	NC_010167.1; NC_010169.1
<i>Buchnera aphidicola 5A Acyrthosiphon pisum</i>	NC_011833.1
<i>Buchnera aphidicola APS Acyrthosiphon pisum</i>	NC_002252.1; NC_002253.1; NC_002528.1
<i>Buchnera aphidicola Bp Baizongia pistaciae</i>	NC_004545.1; NC_004555.1

<i>Buchnera aphidicola</i> Cc <i>Cinara cedri</i>	NC_008513.1; NC_011878.1
<i>Buchnera aphidicola</i> <i>Cinara tujafilina</i>	NC_015662.1
<i>Buchnera aphidicola</i> Sg <i>Schizaphis graminum</i>	NC_004061.1
<i>Buchnera aphidicola</i> Tuc7 <i>Acyrtosiphon pisum</i>	NC_011834.1
<i>Burkholderia</i> 383	NC_007509.1; NC_007510.1; NC_007511.1
<i>Burkholderia ambifaria</i> AMMD	NC_008385.1; NC_008390.1; NC_008391.1; NC_008392.1
<i>Burkholderia ambifaria</i> MC40 6	NC_010551.1; NC_010552.1; NC_010553.1; NC_010557.1
<i>Burkholderia</i> CCGE1001	NC_015136.1; NC_015137.1
<i>Burkholderia</i> CCGE1002	NC_014117.1; NC_014118.1; NC_014119.1; NC_014120.1
<i>Burkholderia</i> CCGE1003	NC_014539.1; NC_014540.1
<i>Burkholderia cenocepacia</i> AU 1054	NC_008060.1; NC_008061.1; NC_008062.1
<i>Burkholderia cenocepacia</i> HI2424	NC_008542.1; NC_008543.1; NC_008544.1; NC_008545.1
<i>Burkholderia cenocepacia</i> J2315	NC_011000.1; NC_011001.1; NC_011002.1; NC_011003.1
<i>Burkholderia cenocepacia</i> MC0 3	NC_010508.1; NC_010512.1; NC_010515.1
<i>Burkholderia gladioli</i> BSR3	NC_015376.1; NC_015377.1; NC_015378.1; NC_015381.1; NC_015382.1; NC_015383.1
<i>Burkholderia glumae</i> BGR1	NC_012718.1; NC_012720.2; NC_012721.2; NC_012723.1; NC_012724.2; NC_012725.2
<i>Burkholderia</i> JV3	NC_015947.1
<i>Burkholderia mallei</i> ATCC 23344	NC_006348.1; NC_006349.2
<i>Burkholderia mallei</i> NCTC 10229	NC_008835.1; NC_008836.1
<i>Burkholderia mallei</i> NCTC 10247	NC_009079.1; NC_009080.1
<i>Burkholderia mallei</i> SAVP1	NC_008784.1; NC_008785.1
<i>Burkholderia multivorans</i> ATCC 17616	NC_010070.1; NC_010084.1; NC_010086.1; NC_010087.1
<i>Burkholderia multivorans</i> ATCC 17616	NC_010801.1; NC_010802.1; NC_010804.1; NC_010805.1
<i>Burkholderia phymatum</i> STM815	NC_010622.1; NC_010623.1; NC_010625.1; NC_010627.1
<i>Burkholderia phytofirmans</i> PsJN	NC_010676.1; NC_010679.1; NC_010681.1
<i>Burkholderia pseudomallei</i> 1106a	NC_009076.1; NC_009078.1
<i>Burkholderia pseudomallei</i> 1710b	NC_007434.1; NC_007435.1
<i>Burkholderia pseudomallei</i> 668	NC_009074.1; NC_009075.1
<i>Burkholderia pseudomallei</i> K96243	NC_006350.1; NC_006351.1
<i>Burkholderia pseudomallei</i> MSHR346	NC_012695.1
<i>Burkholderia rhizozinica</i> HKI 454	NC_014718.1; NC_014722.1; NC_014723.1
<i>Burkholderia thailandensis</i> E264	NC_007650.1; NC_007651.1
<i>Burkholderia vietnamiensis</i> G4	NC_009226.1; NC_009227.1; NC_009228.1; NC_009229.1;
NC_009230.1; NC_009254.1; NC_009255.1; NC_009256.1	
<i>Burkholderia xenovorans</i> LB400	NC_007951.1; NC_007952.1; NC_007953.1
<i>Butyrivibrio proteoclasticus</i> B316	NC_014387.1; NC_014388.1; NC_014389.1; NC_014390.1
<i>Caldicellulosiruptor bescii</i> DSM 6725	NC_012034.1; NC_012036.1; NC_012037.1
<i>Caldicellulosiruptor hydrothermalis</i> 108	NC_014652.1
<i>Caldicellulosiruptor kristjanssonii</i> 177R1B	NC_014719.1; NC_014721.1
<i>Caldicellulosiruptor kronotskyensis</i> 2002	NC_014720.1
<i>Caldicellulosiruptor lactoaceticus</i> 6A	NC_015949.1
<i>Caldicellulosiruptor obsidiansis</i> OB47	NC_014392.1
<i>Caldicellulosiruptor owensensis</i> OL	NC_014657.1
<i>Caldicellulosiruptor saccharolyticus</i> DSM 8903	NC_009437.1
<i>Calditerrivibrio nitroreducens</i> DSM 19672	NC_014749.1; NC_014758.1
<i>Caldivirga maquilingensis</i> IC 167	NC_009954.1
<i>Campylobacter concisus</i> 13826	NC_009795.1; NC_009796.1; NC_009802.1
<i>Campylobacter curvus</i> 525 92	NC_009715.1
<i>Campylobacter fetus</i> 82 40	NC_008599.1
<i>Campylobacter hominis</i> ATCC BAA 381	NC_009713.1; NC_009714.1
<i>Campylobacter jejuni</i> 81116	NC_009839.1
<i>Campylobacter jejuni</i> 81 176	NC_008770.1; NC_008787.1; NC_008790.1
<i>Campylobacter jejuni</i> doylei 269 97	NC_009707.1
<i>Campylobacter jejuni</i> ICDCJ07001	NC_014801.1; NC_014802.1
<i>Campylobacter jejuni</i> NCTC 11168	NC_002163.1
<i>Campylobacter jejuni</i> RM1221	NC_003912.7
<i>Campylobacter lari</i> RM2100	NC_012039.1; NC_012040.1

<i>Candidatus Accumulibacter phosphatis</i> clade IIA UW 1	NC_013190.1; NC_013191.1; NC_013193.1; NC_013194.1
<i>Candidatus Amoebophilus asiaticus</i> 5a2	NC_010830.1
<i>Candidatus Arthromitus SFB</i> mouse Japan	NC_015913.1
<i>Candidatus Arthromitus SFB</i> rat Yit	NC_016012.1
<i>Candidatus Azobacteroides pseudotrichonymphae genomovar CFP2</i>	NC_011561.1; NC_011562.1; NC_011563.1; NC_011564.1; NC_011565.1
<i>Candidatus Blochmannia floridanus</i>	NC_005061.1
<i>Candidatus Blochmannia pennsylvanicus</i> BPEN	NC_007292.1
<i>Candidatus Blochmannia vafer</i> BVAF	NC_014909.1
<i>Candidatus Carsonella ruddii</i>	NC_008512.1
<i>Candidatus Chloracidobacterium thermophilum</i> B	NC_016024.1; NC_016025.1
<i>Candidatus Cloacamonas acidaminovorans</i>	NS_000195.1
<i>Candidatus Desulforudis audaxviator</i> MP104C	NC_010424.1
<i>Candidatus Hamiltonella defensa</i> 5AT Acyrthosiphon pisum	NC_012751.1; NC_012752.1
<i>Candidatus Hodgkinia cicadicola</i> Dsem	NC_012960.1
<i>Candidatus Korarchaeum cryptofilum</i> OPF8	NC_010482.1
<i>Candidatus Koribacter versatilis</i> Ellin345	NC_008009.1
<i>Candidatus Liberibacter asiaticus</i> psy62	NC_012985.3
<i>Candidatus Liberibacter solanacearum</i> CLso ZC1	NC_014774.1
<i>Candidatus Midichloria mitochondrii</i> IricVA	NC_015722.1
<i>Candidatus Moranella endobia</i> PCIT	NC_015735.1
<i>Candidatus Nitrospira defluvii</i>	NC_014355.1
<i>Candidatus Pelagibacter</i> IMCC9063	NC_015380.1
<i>Candidatus Pelagibacter ubique</i> HTCC1062	NC_007205.1
<i>Candidatus Phytoplasma australiense</i>	NC_010544.1
<i>Candidatus Phytoplasma mali</i>	NC_011047.1
<i>Candidatus Protochlamydia amoebophila</i> UWE25	NC_005861.1
<i>Candidatus Puniceispirillum marinum</i> IMCC1322	NC_014010.1
<i>Candidatus Riesia pedicicola</i> USDA	NC_013962.1; NC_014109.1
<i>Candidatus Ruthia magnifica</i> Cm Calyptogenia magnifica	NC_008610.1
<i>Candidatus Solibacter usitatus</i> Ellin6076	NC_008536.1
<i>Candidatus Sulcia muelleri</i> CARI	NC_014499.1
<i>Candidatus Sulcia muelleri</i> DMIN	NC_014004.1
<i>Candidatus Sulcia muelleri</i> GWSS	NC_010118.1
<i>Candidatus Sulcia muelleri</i> SMDSEM	NC_013123.1
<i>Candidatus Tremblaya princeps</i> PCIT	NC_015736.1
<i>Candidatus Vesicomysocius okutanii</i> HA	NC_009465.1
<i>Candidatus Zinderia insecticola</i> CARI	NC_014497.1
<i>Capnocytophaga canimorsus</i> Cc5	NC_015846.1
<i>Capnocytophaga ochracea</i> DSM 7271	NC_013162.1
<i>Carbozydotherrnus hydrogenoformans</i> Z 2901	NC_007503.1
<i>Carnobacterium</i> 17 4	NC_015390.1; NC_015391.1
<i>Catenulispora acidiphila</i> DSM 44928	NC_013131.1
<i>Caulobacter crescentus</i> CB15	NC_002696.2
<i>Caulobacter crescentus</i> NA1000	NC_011916.1
<i>Caulobacter</i> K31	NC_010333.1; NC_010335.1; NC_010338.1
<i>Caulobacter segnis</i> ATCC 21756	NC_014100.1
<i>Cellulomonas fimi</i> ATCC 484	NC_015514.1
<i>Cellulomonas flavigena</i> DSM 20109	NC_014151.1
<i>Cellulophaga algicola</i> DSM 14237	NC_014934.1
<i>Cellulophaga lytica</i> DSM 7489	NC_015167.1
<i>Cellvibrio gilvus</i> ATCC 13127	NC_015671.1
<i>Cellvibrio japonicus</i> Ueda107	NC_010995.1
<i>Cenarchaeum symbiosum</i> A	NC_014820.1
<i>Chelativorans</i> BNC1	NC_008242.1; NC_008243.1; NC_008244.1; NC_008254.1
<i>Chitinophaga pinensis</i> DSM 2588	NC_013132.1
<i>Chlamydia muridarum</i> Nigg	NC_002182.1; NC_002620.2
<i>Chlamydia trachomatis</i> 434 Bu	NC_010287.1

<i>Chlamydia trachomatis</i> A HAR 13	NC_007429.1; NC_007430.1
<i>Chlamydia trachomatis</i> B Jali20 OT	NC_012686.1
<i>Chlamydia trachomatis</i> B TZ1A828 OT	NC_012687.1
<i>Chlamydia trachomatis</i> D UW 3 CX	NC_000117.1
<i>Chlamydia trachomatis</i> L2b UCH 1 proctitis	NC_010280.2
<i>Chlamydia trachomatis</i> L2c	NC_015744.1
<i>Chlamydophila abortus</i> S26 3	NC_004552.2
<i>Chlamydophila caviae</i> GPIC	NC_003361.3; NC_004720.1
<i>Chlamydophila felis</i> Fe C 56	NC_007899.1; NC_007900.1
<i>Chlamydophila pecorum</i> E58	NC_015408.1
<i>Chlamydophila pneumoniae</i> AR39	NC_002179.2
<i>Chlamydophila pneumoniae</i> CWL029	NC_000922.1
<i>Chlamydophila pneumoniae</i> J138	NC_002491.1
<i>Chlamydophila pneumoniae</i> TW 183	NC_005043.1
<i>Chlamydophila psittaci</i> 6BC	NC_015217.1; NC_015470.1
<i>Chlorobaculum parvum</i> NCIB 8327	NC_011027.1
<i>Chlorobium chlorochromatii</i> CaD3	NC_007514.1
<i>Chlorobium limicola</i> DSM 245	NC_010803.1
<i>Chlorobium luteolum</i> DSM 273	NC_007512.1
<i>Chlorobium phaeobacteroides</i> BS1	NC_010831.1
<i>Chlorobium phaeobacteroides</i> DSM 266	NC_008639.1
<i>Chlorobium phaeovibrioides</i> DSM 265	NC_009337.1
<i>Chlorobium tepidum</i> TLS	NC_002932.3
<i>Chloroflexus aggregans</i> DSM 9485	NC_011831.1
<i>Chloroflexus aurantiacus</i> J 10 fl	NC_010175.1
<i>Chloroflexus</i> Y 400 fl	NC_012032.1
<i>Chloroherpeton thalassium</i> ATCC 35110	NC_011026.1
<i>Chromobacterium violaceum</i> ATCC 12472	NC_005085.1
<i>Chromohalobacter salexigens</i> DSM 3043	NC_007963.1
<i>Citrobacter koseri</i> ATCC BAA 895	NC_009792.1; NC_009793.1; NC_009794.1
<i>Citrobacter rodentium</i> ICC168	NC_013716.1; NC_013717.1; NC_013718.1; NC_013719.1
<i>Clavibacter michiganensis</i> NCPPB 382	NC_009478.1; NC_009479.1; NC_009480.1
<i>Clavibacter michiganensis</i> sepedonicus	NC_010399.1; NC_010407.1; NC_010408.1
<i>Clostridiales</i> genomosp BVAB3 UPII9 5	NC_013895.2
<i>Clostridium acetobutylicum</i> ATCC 824	NC_001988.2; NC_003030.1
<i>Clostridium acetobutylicum</i> DSM 1731	NC_015686.1; NC_015687.1; NC_015688.1
<i>Clostridium beijerinckii</i> NCIMB 8052	NC_009617.1
<i>Clostridium botulinum</i> A2 Kyoto	NC_012563.1
<i>Clostridium botulinum</i> A3 Loch Maree	NC_010418.1; NC_010520.1
<i>Clostridium botulinum</i> A ATCC 19397	NC_009697.1
<i>Clostridium botulinum</i> A ATCC 3502	NC_009495.1; NC_009496.1
<i>Clostridium botulinum</i> A Hall	NC_009698.1
<i>Clostridium botulinum</i> B1 Okra	NC_010379.1; NC_010516.1
<i>Clostridium botulinum</i> Ba4 657	NC_012654.1; NC_012657.1; NC_012658.1
<i>Clostridium botulinum</i> B Eklund 17B	NC_010674.1; NC_010680.1
<i>Clostridium botulinum</i> BKT015925	NC_015417.1; NC_015418.1; NC_015419.1; NC_015425.1; NC_015426.1; NC_015427.1
<i>Clostridium botulinum</i> E3 Alaska E43	NC_010723.1
<i>Clostridium botulinum</i> F Langeland	NC_009699.1; NC_009700.1
<i>Clostridium cellulolyticum</i> H10	NC_011898.1
<i>Clostridium cellulovorans</i> 743B	NC_014393.1
<i>Clostridium difficile</i> 630	NC_008226.1; NC_009089.1
<i>Clostridium difficile</i> CD196	NC_013315.1
<i>Clostridium difficile</i> R20291	NC_013316.1
<i>Clostridium kluyveri</i> DSM 555	NC_009466.1; NC_009706.1
<i>Clostridium kluyveri</i> NBRC 12016	NC_011836.1; NC_011837.1
<i>Clostridium lentocellum</i> DSM 5427	NC_015275.1
<i>Clostridium ljungdahlii</i> DSM 13528	NC_014328.1

<i>Clostridium novyi</i> NT	NC_008593.1
<i>Clostridium perfringens</i> 13	NC_003042.1; NC_003366.1
<i>Clostridium perfringens</i> ATCC 13124	NC_008261.1
<i>Clostridium perfringens</i> SM101	NC_008262.1; NC_008263.1; NC_008264.1; NC_008265.1
<i>Clostridium phytofermentans</i> ISDg	NC_010001.1
<i>Clostridium saccharolyticum</i> WM1	NC_014376.1
<i>Clostridium sticklandii</i> DSM 519	NC_014614.1
<i>Clostridium SY8519</i>	NC_015737.1
<i>Clostridium tetani</i> E88	NC_004557.1; NC_004565.1
<i>Clostridium thermocellum</i> ATCC 27405	NC_009012.1
<i>Collimonas fungivorans</i> Ter331	NC_015856.1
<i>Colwellia psychrerythraea</i> 34H	NC_003910.7
<i>Comamonas testosteroni</i> CNB 2	NC_010935.1; NC_013446.1
<i>Conexibacter woesei</i> DSM 14684	NC_013739.1
<i>Coprothermobacter proteolyticus</i> DSM 5265	NC_011295.1
<i>Coraliomargarita akajimensis</i> DSM 45221	NC_014008.1
<i>Coriobacterium glomerans</i> PW2	NC_015389.1
<i>Corynebacterium aurimucosum</i> ATCC 700975	NC_010813.1; NC_012590.1
<i>Corynebacterium diphtheriae</i> NCTC 13129	NC_002935.2
<i>Corynebacterium efficiens</i> YS 314	NC_004319.1; NC_004320.1; NC_004369.1
<i>Corynebacterium glutamicum</i> ATCC 13032	NC_003450.3
<i>Corynebacterium glutamicum</i> ATCC 13032	NC_006958.1
<i>Corynebacterium glutamicum</i> R	NC_009342.1; NC_009343.1
<i>Corynebacterium jeikeium</i> K411	NC_003080.1; NC_007164.1
<i>Corynebacterium kroppenstedtii</i> DSM 44385	NC_012704.1
<i>Corynebacterium pseudotuberculosis</i> FRC41	NC_014329.1
<i>Corynebacterium resistens</i> DSM 45100	NC_015673.1
<i>Corynebacterium ulcerans</i> BR AD22	NC_015683.1
<i>Corynebacterium urealyticum</i> DSM 7109	NC_010545.1
<i>Corynebacterium variabile</i> DSM 44702	NC_015859.1
<i>Coziella burnetii</i> CbuG Q212	NC_011527.1
<i>Coziella burnetii</i> CbuK Q154	NC_011526.1; NC_011528.1
<i>Coziella burnetii</i> Dugway 5J108 111	NC_009726.1; NC_009727.1
<i>Coziella burnetii</i> RSA 331	NC_010115.1; NC_010117.1
<i>Coziella burnetii</i> RSA 493	NC_002971.3; NC_004704.1
<i>Croceibacter atlanticus</i> HTCC2559	NC_014230.1
<i>Cronobacter sakazakii</i> ATCC BAA 894	NC_009778.1; NC_009779.1; NC_009780.1
<i>Cronobacter turicensis</i> z3032	NC_013282.2; NC_013283.1; NC_013284.1; NC_013285.1
<i>Cryptobacterium curtum</i> DSM 15641	NC_013170.1
<i>Cupriavidus metallidurans</i> CH34	NC_007971.2; NC_007972.2; NC_007973.1; NC_007974.2
<i>Cupriavidus necator</i> N 1	NC_015723.1; NC_015724.1; NC_015726.1; NC_015727.1
<i>Cupriavidus taiwanensis</i> LMG 19424	NC_010528.1; NC_010529.1; NC_010530.1
<i>cyanobacterium</i> UCYN A	NC_013771.1
<i>Cyanothece</i> ATCC 51142	NC_010539.1; NC_010541.1; NC_010542.1; NC_010543.1; NC_010546.1; NC_010547.1
<i>Cyanothece</i> PCC 7424	NC_011729.1; NC_011730.1; NC_011732.1; NC_011733.1; NC_011734.1; NC_011737.1; NC_011738.1
<i>Cyanothece</i> PCC 7425	NC_011880.1; NC_011882.1; NC_011884.1; NC_011885.1
<i>Cyanothece</i> PCC 7822	NC_014501.1; NC_014502.1; NC_014503.1; NC_014504.1; NC_014533.1; NC_014534.1; NC_014535.1
<i>Cyanothece</i> PCC 8801	NC_011721.1; NC_011723.1; NC_011726.1; NC_011727.1
<i>Cyanothece</i> PCC 8802	NC_013160.1; NC_013161.1; NC_013163.1; NC_013167.1; NC_013168.1
<i>Cyclobacterium marinum</i> DSM 745	NC_015914.1
<i>Cytophaga hutchinsonii</i> ATCC 33406	NC_008255.1
<i>Dechloromonas aromatica</i> RCB	NC_007298.1
<i>Deferribacter desulfuricans</i> SSM1	NC_013939.1; NC_013940.1
<i>Dehalococcoides</i> BAV1	NC_009455.1
<i>Dehalococcoides</i> CBDB1	NC_007356.1
<i>Dehalococcoides ethenogenes</i> 195	NC_002936.3
<i>Dehalococcoides</i> GT	NC_013890.1

<i>Dehalococcoides</i> VS	NC_013552.1
<i>Dehalogenimonas lykanthroporepellens</i> BL DC 9	NC_014314.1
<i>Deinococcus deserti</i> VCD115	NC_012526.1; NC_012527.1; NC_012528.1; NC_012529.1
<i>Deinococcus geothermalis</i> DSM 11300	NC_008010.2; NC_008025.1; NC_009939.1
<i>Deinococcus maricopensis</i> DSM 21211	NC_014958.1
<i>Deinococcus proteolyticus</i> MRP	NC_015161.1; NC_015162.1; NC_015163.1; NC_015169.1; NC_015170.1
<i>Deinococcus radiodurans</i> R1	NC_000958.1; NC_000959.1; NC_001263.1; NC_001264.1
<i>Delftia acidovorans</i> SPH 1	NC_010002.1
<i>Delftia</i> Cs1 4	NC_015563.1
<i>Denitrovibrio acetiphilus</i> DSM 12809	NC_013943.1
<i>Desulfarculus baarsii</i> DSM 2075	NC_014365.1
<i>Desulfatibacillum alkenivorans</i> AK 01	NC_011768.1
<i>Desulfotobacterium hafniense</i> DCB 2	NC_011830.1
<i>Desulfotobacterium hafniense</i> Y51	NC_007907.1
<i>Desulfobacca acetozidans</i> DSM 11109	NC_015388.1
<i>Desulfobacterium autotrophicum</i> HRM2	NC_012108.1; NC_012109.1
<i>Desulfobulbus propionicus</i> DSM 2032	NC_014972.1
<i>Desulfococcus oleovorans</i> Hzd3	NC_009943.1
<i>Desulfohalobium retbaense</i> DSM 5692	NC_013223.1; NC_013224.1
<i>Desulfomicrobium baculatum</i> DSM 4028	NC_013173.1
<i>Desulfotalea psychrophila</i> L5v54	NC_006138.1; NC_006139.1; NC_006140.1
<i>Desulfotomaculum acetozidans</i> DSM 771	NC_013216.1
<i>Desulfotomaculum carbozodivorans</i> CO 1 SRB	NC_015565.1
<i>Desulfotomaculum kuznetsovii</i> DSM 6115	NC_015573.1
<i>Desulfotomaculum reducens</i> MI 1	NC_009253.1
<i>Desulfotomaculum ruminis</i> DSM 2154	NC_015589.1
<i>Desulfovibrio aespoensis</i> Aspo 2	NC_014844.1
<i>Desulfovibrio alaskensis</i> G20	NC_007519.1
<i>Desulfovibrio desulfuricans</i> ATCC 27774	NC_011883.1
<i>Desulfovibrio magneticus</i> RS 1	NC_012795.1; NC_012796.1; NC_012797.1
<i>Desulfovibrio salexigens</i> DSM 2638	NC_012881.1
<i>Desulfovibrio vulgaris</i> DP4	NC_008741.1; NC_008751.1
<i>Desulfovibrio vulgaris</i> Hildenborough	NC_002937.3; NC_005863.1
<i>Desulfovibrio vulgaris</i> Miyazaki F	NC_011769.1
<i>Desulfuripirillum indicum</i> S5	NC_014836.1
<i>Desulfurivibrio alkaliphilus</i> AHT2	NC_014216.1
<i>Desulfurobacterium thermolithotrophum</i> DSM 11699	NC_015185.1
<i>Desulfurococcus kamchatkensis</i> 1221n	NC_011766.1
<i>Desulfurococcus mucosus</i> DSM 2162	NC_014961.1
<i>Dichelobacter nodosus</i> VCS1703A	NC_009446.1
<i>Dickeya dadantii</i> 3937	NC_014500.1
<i>Dickeya dadantii</i> Ech586	NC_013592.1
<i>Dickeya dadantii</i> Ech703	NC_012880.1
<i>Dickeya zeae</i> Ech1591	NC_012912.1
<i>Dictyoglomus thermophilum</i> H 6 12	NC_011297.1
<i>Dictyoglomus turgidum</i> DSM 6724	NC_011661.1
<i>Dinoroseobacter shibae</i> DFL 12	NC_009952.1; NC_009955.1; NC_009956.1; NC_009957.1; NC_009958.1; NC_009959.1
<i>Dyadobacter fermentans</i> DSM 18053	NC_013037.1
<i>Edwardsiella ictaluri</i> 93 146	NC_012779.1
<i>Edwardsiella tarda</i> EIB202	NC_013508.1; NC_013509.1
<i>Eggerthella lenta</i> DSM 2243	NC_013204.1
<i>Eggerthella</i> YY7918	NC_015738.1
<i>Ehrlichia canis</i> Jake	NC_007354.1
<i>Ehrlichia chaffeensis</i> Arkansas	NC_007799.1
<i>Ehrlichia ruminantium</i> Gardel	NC_006831.1
<i>Ehrlichia ruminantium</i> Welgevonden	NC_005295.2
<i>Ehrlichia ruminantium</i> Welgevonden	NC_006832.1

<i>Elusimicrobium minutum</i> Pei191	NC_010644.1
<i>Enterobacter</i> 638	NC_009425.1; NC_009436.1
<i>Enterobacter aerogenes</i> KCTC 2190	NC_015663.1
<i>Enterobacter asburiae</i> LF7a	NC_015963.1; NC_015968.1; NC_015969.1
<i>Enterobacter cloacae</i> ATCC 13047	NC_014107.1; NC_014108.1; NC_014121.1
<i>Enterobacter cloacae</i> SCF1	NC_014618.1
<i>Enterococcus faecalis</i> V583	NC_004668.1; NC_004669.1; NC_004670.1; NC_004671.1
<i>Erwinia amylovora</i> ATCC 49946	NC_013971.1; NC_013972.1; NC_013973.1
<i>Erwinia amylovora</i> CFBP1430	NC_013957.1; NC_013961.1
<i>Erwinia billingiae</i> Eb661	NC_014304.1; NC_014305.1; NC_014306.1
<i>Erwinia pyrifoliae</i> Ep1 96	NC_012214.1; NC_013263.1; NC_013264.1; NC_013265.1; NC_013954.1
<i>Erwinia tasmaniensis</i> Et1 99	NC_010693.1; NC_010694.1; NC_010695.1; NC_010696.1; NC_010697.1; NC_010699.1
<i>Erysipelothrix rhusiopathiae</i> Fujisawa	NC_015601.1
<i>Erythrobacter litoralis</i> HTCC2594	NC_007722.1
<i>Escherichia coli</i> 536	NC_008253.1
<i>Escherichia coli</i> 55989	NC_011748.1
<i>Escherichia coli</i> APEC O1	NC_008563.1; NC_009837.1; NC_009838.1
<i>Escherichia coli</i> ATCC 8739	NC_010468.1
<i>Escherichia coli</i> BL21 Gold DE3 pLysS AG	NC_012947.1
<i>Escherichia coli</i> B REL606	NC_012967.1
<i>Escherichia coli</i> BW2952	NC_012759.1
<i>Escherichia coli</i> CFT073	NC_004431.1
<i>Escherichia coli</i> E24377A	NC_009786.1; NC_009787.1; NC_009788.1; NC_009789.1; NC_009790.1; NC_009791.1; NC_009801.1
<i>Escherichia coli</i> ED1a	NC_011745.1
<i>Escherichia coli</i> HS	NC_009800.1
<i>Escherichia coli</i> IAI1	NC_011741.1
<i>Escherichia coli</i> IAI39	NC_011750.1
<i>Escherichia coli</i> K 12 substr DH10B	NC_010473.1
<i>Escherichia coli</i> K 12 substr MG1655	NC_000913.2
<i>Escherichia coli</i> O103 H2 12009	NC_013353.1; NC_013354.1
<i>Escherichia coli</i> O111 H 11128	NC_013364.1; NC_013365.1; NC_013366.1; NC_013367.1; NC_013368.1; NC_013370.1
<i>Escherichia coli</i> O127 H6 E2348 69	NC_011601.1; NC_011602.1; NC_011603.1
<i>Escherichia coli</i> O157 H7 EC4115	NC_011350.1; NC_011351.1; NC_011353.1
<i>Escherichia coli</i> O157 H7 EDL933	NC_002655.2; NC_007414.1
<i>Escherichia coli</i> O157 H7 Sakai	NC_002127.1; NC_002128.1; NC_002695.1
<i>Escherichia coli</i> O157 H7 TW14359	NC_013008.1; NC_013010.1
<i>Escherichia coli</i> O26 H11 11368	NC_013361.1; NC_013362.1; NC_013363.1; NC_013369.1; NC_014543.1
<i>Escherichia coli</i> O55 H7 CB9615	NC_013941.1; NC_013942.1
<i>Escherichia coli</i> S88	NC_011742.1; NC_011747.1
<i>Escherichia coli</i> SE11	NC_011407.1; NC_011408.1; NC_011411.1; NC_011413.1; NC_011415.1; NC_011416.1; NC_011419.1
<i>Escherichia coli</i> SMS 3 5	NC_010485.1; NC_010486.1; NC_010487.1; NC_010488.1; NC_010498.1
<i>Escherichia coli</i> UMN026	NC_011739.1; NC_011749.1; NC_011751.1
<i>Escherichia coli</i> UTI89	NC_007941.1; NC_007946.1
<i>Escherichia fergusonii</i> ATCC 35469	NC_011740.1; NC_011743.1
<i>Ethanoligenens harbinense</i> YUAN 3	NC_014828.1
<i>Eubacterium eligens</i> ATCC 27750	NC_012778.1; NC_012780.1; NC_012782.1
<i>Eubacterium limosum</i> KIST612	NC_014624.1
<i>Eubacterium rectale</i> ATCC 33656	NC_012781.1
<i>Eriguobacterium AT1b</i>	NC_012673.1
<i>Eriguobacterium sibiricum</i> 255 15	NC_010549.1; NC_010550.1; NC_010556.1
<i>Ferrimonas balearica</i> DSM 9799	NC_014541.1
<i>Ferroglobus placidus</i> DSM 10642	NC_013849.1
<i>Fervidobacterium nodosum</i> Rt17 B1	NC_009718.1
<i>Fibrobacter succinogenes</i> S85	NC_013410.1
<i>Finegoldia magna</i> ATCC 29328	NC_010371.1; NC_010376.1
<i>Flavobacteriaceae bacterium</i> 3519 10	NC_013062.1
<i>Flavobacteriales bacterium</i> HTCC2170	NC_014472.1

<i>Flavobacterium branchiophilum</i>	NC_016001.1
<i>Flavobacterium johnsoniae</i> UW101	NC_009441.1
<i>Flavobacterium psychrophilum</i> JIP02 86	NC_009613.1
<i>Flexistipes sinusarabici</i> DSM 4947	NC_015672.1
<i>Fluviicola taffensis</i> DSM 16823	NC_015321.1
<i>Francisella novicida</i> U112	NC_008601.1
<i>Francisella philomiragia</i> ATCC 25017	NC_010331.1; NC_010336.1
<i>Francisella tularensis</i> FSC198	NC_008245.1
<i>Francisella tularensis holarctica</i> FTNF002 00	NC_009749.1
<i>Francisella tularensis holarctica</i> LVS	NC_007880.1
<i>Francisella tularensis holarctica</i> OSU18	NC_008369.1
<i>Francisella tularensis mediasiatica</i> FSC147	NC_010677.1
<i>Francisella tularensis</i> SCHU S4	NC_006570.2
<i>Francisella tularensis</i> WY96 3418	NC_009257.1
<i>Francisella</i> TX077308	NC_015696.1
<i>Frankia alni</i> ACN14a	NC_008278.1
<i>Frankia CcI3</i>	NC_007777.1
<i>Frankia EAN1pec</i>	NC_009921.1
<i>Frankia EuI1c</i>	NC_014666.1
<i>Frankia symbiont of Datisca glomerata</i>	NC_015656.1; NC_015657.1; NC_015664.1
<i>Fusobacterium nucleatum</i> ATCC 25586	NC_003454.1
<i>Gallibacterium anatis</i> UMN179	NC_015460.1; NC_015461.1
<i>Gallionella capsiferriformans</i> ES 2	NC_014394.1
<i>gamma proteobacterium</i> HdN1	NC_014366.1
<i>Gardnerella vaginalis</i> 409 05	NC_013721.1
<i>Gardnerella vaginalis</i> ATCC 14019	NC_014644.1
<i>Gemmatimonas aurantiaca</i> T 27	NC_012489.1
<i>Geobacillus</i> C56 T3	NC_014206.1
<i>Geobacillus kaustophilus</i> HTA426	NC_006509.1; NC_006510.1
<i>Geobacillus thermodenitrificans</i> NG80 2	NC_009328.1; NC_009329.1
<i>Geobacillus thermoglucosidasius</i> C56 YS93	NC_015660.1; NC_015661.1; NC_015665.1
<i>Geobacillus</i> WCH70	NC_012790.1; NC_012793.1; NC_012794.1
<i>Geobacillus</i> Y412MC52	NC_014915.1; NC_014916.1
<i>Geobacillus</i> Y412MC61	NC_013411.1; NC_013412.1
<i>Geobacillus</i> Y4 1MC1	NC_014650.1; NC_014651.1
<i>Geobacter bemidjiensis</i> Bem	NC_011146.1
<i>Geobacter</i> FRC 32	NC_011979.1
<i>Geobacter lovleyi</i> SZ	NC_010814.1; NC_010815.1
<i>Geobacter</i> M18	NC_014973.1
<i>Geobacter</i> M21	NC_012918.1
<i>Geobacter metallireducens</i> GS 15	NC_007515.1; NC_007517.1
<i>Geobacter sulfurreducens</i> PCA	NC_002939.4
<i>Geobacter uraniireducens</i> Rf4	NC_009483.1
<i>Geodermatophilus obscurus</i> DSM 43160	NC_013757.1
<i>Glaciecola</i> 4H 3 7 YE 5	NC_015497.1; NC_015498.1
<i>Glaciecola nitratireducens</i> FR1064	NC_016041.1
<i>Gloeobacter violaceus</i> PCC 7421	NC_005125.1
<i>Gluconacetobacter diazotrophicus</i> PA1 5	NC_011365.1; NC_011367.1
<i>Gluconacetobacter diazotrophicus</i> PA1 5	NC_010123.1; NC_010124.1; NC_010125.1
<i>Gluconacetobacter xylinus</i> NBRC 3288	NC_016021.1; NC_016022.1; NC_016027.1; NC_016028.1; NC_016029.1; NC_016030.1; NC_016037.1
<i>Gluconobacter oxydans</i> 621H	NC_006672.1; NC_006673.1; NC_006674.1; NC_006675.1; NC_006676.1; NC_006677.1
<i>Gordonia bronchialis</i> DSM 43247	NC_013441.1; NC_013442.1
<i>Gramella forsetii</i> KT0803	NC_008571.1
<i>Granulibacter Bethesdaensis</i> CGDNIH1	NC_008343.1
<i>Haemophilus ducreyi</i> 35000HP	NC_002940.2
<i>Haemophilus influenzae</i> 86 028NP	NC_007146.2
<i>Haemophilus influenzae</i> F3031	NC_014920.1

<i>Haemophilus influenzae F3047</i>	NC_014922.1
<i>Haemophilus influenzae PittEE</i>	NC_009566.1
<i>Haemophilus influenzae PittGG</i>	NC_009567.1
<i>Haemophilus influenzae Rd KW20</i>	NC_000907.1
<i>Haemophilus parainfluenzae T3T1</i>	NC_015964.1
<i>Haemophilus parasuis SH0165</i>	NC_011852.1
<i>Haemophilus somnus 129PT</i>	NC_006298.1; NC_008309.1
<i>Haemophilus somnus 2336</i>	NC_010519.1
<i>Hahella chejuensis KCTC 2396</i>	NC_007645.1
<i>Halalkalicoccus jeotgali B3</i>	NC_014297.1; NC_014298.1; NC_014299.1; NC_014300.1; NC_014301.1; NC_014302.1; NC_014303.1
<i>Halanaerobium hydrogeniformans</i>	NC_014654.1
<i>Haliangium ochraceum DSM 14365</i>	NC_013440.1
<i>Haliscomenobacter hydrossis DSM 1100</i>	NC_015510.1; NC_015511.1; NC_015512.1; NC_015513.1
<i>Haloarcula hispanica ATCC 33960</i>	NC_015943.1; NC_015944.1; NC_015948.1
<i>Haloarcula marismortui ATCC 43049</i>	NC_006389.1; NC_006390.1; NC_006391.1; NC_006392.1; NC_006393.1;
NC_006394.1; NC_006395.1; NC_006396.1; NC_006397.1	
<i>Halobacterium NRC 1</i>	NC_001869.1; NC_002607.1; NC_002608.1
<i>Halobacterium salinarum R1</i>	NC_010364.1; NC_010366.1; NC_010367.1; NC_010368.1; NC_010369.1
<i>Haloferaz volcanii DS2</i>	NC_013964.1; NC_013965.1; NC_013966.1; NC_013967.1; NC_013968.1
<i>Halogeometricum borinquense DSM 11551</i>	NC_014729.1; NC_014731.1; NC_014732.1; NC_014735.1; NC_014736.1; NC_014737.1
<i>Halomicrobium mukohataei DSM 12286</i>	NC_013201.1; NC_013202.1
<i>Halomonas elongata DSM 2581</i>	NC_014532.1
<i>halophilic archaeon DL31</i>	NC_015954.1; NC_015955.1; NC_015959.1
<i>Halopiger zanaduensis SH 6</i>	NC_015658.1; NC_015659.1; NC_015666.1; NC_015667.1
<i>Haloquadratum walsbyi DSM 16790</i>	NC_008212.1; NC_008213.1
<i>Halorhabdus utahensis DSM 12940</i>	NC_013158.1
<i>Halorhodospira halophila SL1</i>	NC_008789.1
<i>Halorubrum lacusprofundi ATCC 49239</i>	NC_012028.1; NC_012029.1; NC_012030.1
<i>Haloterrigena turkmenica DSM 5511</i>	NC_013743.1; NC_013744.1; NC_013745.1; NC_013746.1; NC_013747.1; NC_013748.1; NC_013749.1
<i>Halothermothrix orenii H 168</i>	NC_011899.1
<i>Halothiobacillus neapolitanus c2</i>	NC_013422.1
<i>Helicobacter acinonychis Sheeba</i>	NC_008229.1; NC_008230.1
<i>Helicobacter bizzozeronii CIII 1</i>	NC_015670.1; NC_015674.1
<i>Helicobacter felis ATCC 49179</i>	NC_014810.2
<i>Helicobacter hepaticus ATCC 51449</i>	NC_004917.1
<i>Helicobacter mustelae 12198</i>	NC_013949.1
<i>Helicobacter pylori 26695</i>	NC_000915.1
<i>Helicobacter pylori B38</i>	NC_012973.1
<i>Helicobacter pylori B8</i>	NC_014256.1; NC_014257.1
<i>Helicobacter pylori G27</i>	NC_011333.1; NC_011334.1
<i>Helicobacter pylori HPAG1</i>	NC_008086.1; NC_008087.1
<i>Helicobacter pylori J99</i>	NC_000921.1
<i>Helicobacter pylori P12</i>	NC_011498.1; NC_011499.1
<i>Helicobacter pylori PeCan4</i>	NC_014555.1; NC_014556.1
<i>Helicobacter pylori Shi470</i>	NC_010698.2
<i>Helicobacter pylori SJM180</i>	NC_014560.1
<i>Helicobacterium modesticaldum Ice1</i>	NC_010337.2
<i>Herbaspirillum seropedicae SmR1</i>	NC_014323.1
<i>Herminiimonas arsenicozydans</i>	NC_009138.1
<i>Herpetosiphon aurantiacus DSM 785</i>	NC_009972.1; NC_009973.1; NC_009974.1
<i>Hippea maritima DSM 10411</i>	NC_015318.1
<i>Hirschia baltica ATCC 49814</i>	NC_012982.1; NC_012983.1
<i>Hydrogenobacter thermophilus TK 6</i>	NC_013799.1
<i>Hydrogenobaculum Y04AAS1</i>	NC_011126.1
<i>Hyperthermus butylicus DSM 5456</i>	NC_008818.1
<i>Hyphomicrobium denitrificans ATCC 51888</i>	NC_014313.1
<i>Hyphomicrobium MC1</i>	NC_015717.1

<i>Hyphomonas neptunium</i> ATCC 15444	NC_008358.1
<i>Idiomarina loihiensis</i> L2TR	NC_006512.1
<i>Ignicoccus hospitalis</i> KIN4 I	NC_009776.1
<i>Ignisphaera aggregans</i> DSM 17230	NC_014471.1
<i>Ilyobacter polytropus</i> DSM 2926	NC_014632.1; NC_014633.1; NC_014634.1
<i>Intrasporangium calvum</i> DSM 43043	NC_014830.1
<i>Isoptericola variabilis</i> 225	NC_015588.1
<i>Isosphaera pallida</i> ATCC 43644	NC_014957.1; NC_014962.1
<i>Jannaschia</i> CCS1	NC_007801.1; NC_007802.1
<i>Janthinobacterium</i> Marseille	NC_009659.1
<i>Jonesia denitrificans</i> DSM 20603	NC_013174.1
<i>Kangiella koreensis</i> DSM 16069	NC_013166.1
<i>Ketogulonicigenium vulgare</i> Y25	NC_014621.1; NC_014625.1; NC_014626.1
<i>Kineococcus radiotolerans</i> SRS30216	NC_009660.1; NC_009664.2; NC_009806.1
<i>Kitasatospora setae</i> KM 6054	NC_016109.1
<i>Klebsiella pneumoniae</i> 342	NC_011281.1; NC_011282.1; NC_011283.1
<i>Klebsiella pneumoniae</i> MGH 78578	NC_009648.1; NC_009649.1; NC_009650.1; NC_009651.1; NC_009652.1; NC_009653.1
<i>Klebsiella pneumoniae</i> NTUH K2044	NC_006625.1; NC_012731.1
<i>Klebsiella variicola</i> At 22	NC_013850.1
<i>Kocuria rhizophila</i> DC2201	NC_010617.1
<i>Kosmotoga olearia</i> TBF 19 5 1	NC_012785.1
<i>Kribbella flavida</i> DSM 17836	NC_013729.1
<i>Krokinobacter</i> 4H 3 7 5	NC_015496.1
<i>Kytococcus sedentarius</i> DSM 20547	NC_013169.1
<i>Lacinutrix</i> 5H 3 7 4	NC_015638.1
<i>Lactobacillus acidophilus</i> 30SC	NC_015213.1; NC_015214.1; NC_015218.1
<i>Lactobacillus acidophilus</i> NCFM	NC_006814.3
<i>Lactobacillus amylovorus</i> GRL 1112	NC_014724.1; NC_015319.1; NC_015322.1
<i>Lactobacillus brevis</i> ATCC 367	NC_008497.1; NC_008498.1; NC_008499.1
<i>Lactobacillus buchneri</i> NRRL B 30929	NC_015420.1; NC_015421.1; NC_015428.1; NC_015429.1
<i>Lactobacillus casei</i> ATCC 334	NC_008502.1; NC_008526.1
<i>Lactobacillus casei</i> BL23	NC_010999.1
<i>Lactobacillus casei</i> Zhang	NC_011352.1; NC_014334.1
<i>Lactobacillus crispatus</i> ST1	NC_014106.1
<i>Lactobacillus delbrueckii bulgaricus</i> ATCC 11842	NC_008054.1
<i>Lactobacillus delbrueckii bulgaricus</i> ATCC BAA 365	NC_008529.1
<i>Lactobacillus delbrueckii bulgaricus</i> ND02	NC_014727.1; NC_014728.1
<i>Lactobacillus fermentum</i> IFO 3956	NC_010610.1
<i>Lactobacillus gasseri</i> ATCC 33323	NC_008530.1
<i>Lactobacillus helveticus</i> DPC 4571	NC_010080.1
<i>Lactobacillus johnsonii</i> FI9785	NC_012552.1; NC_013504.1; NC_013505.1
<i>Lactobacillus johnsonii</i> NCC 533	NC_005362.1
<i>Lactobacillus kefirifaciens</i> ZW3	NC_015598.1; NC_015602.1; NC_015603.1
<i>Lactobacillus plantarum</i> JDM1	NC_012984.1
<i>Lactobacillus plantarum</i> ST III	NC_014554.1; NC_014558.2
<i>Lactobacillus plantarum</i> WCFS1	NC_004567.1; NC_006375.1; NC_006376.1; NC_006377.1
<i>Lactobacillus reuteri</i> DSM 20016	NC_009513.1
<i>Lactobacillus reuteri</i> JCM 1112	NC_010609.1
<i>Lactobacillus reuteri</i> SD2112	NC_015697.1; NC_015698.1; NC_015699.1; NC_015700.1; NC_015701.1
<i>Lactobacillus rhamnosus</i> GG	NC_013198.1
<i>Lactobacillus rhamnosus</i> Lc 705	NC_013199.1; NC_013200.1
<i>Lactobacillus ruminis</i> ATCC 27782	NC_015975.1
<i>Lactobacillus sakei</i> 23K	NC_007576.1
<i>Lactobacillus salivarius</i> UCC118	NC_006529.1; NC_006530.1; NC_007929.1; NC_007930.1
<i>Lactobacillus sanfranciscensis</i> TMW 1 1304	NC_015978.1; NC_015979.1; NC_015980.1
<i>Lactococcus garvieae</i> ATCC 49156	NC_015930.1
<i>Lactococcus lactis cremoris</i> MG1363	NC_009004.1

<i>Lactococcus lactis cremoris SK11</i>	NC_008503.1; NC_008504.1; NC_008505.1; NC_008506.1; NC_008507.1; NC_008527.1
<i>Lactococcus lactis RI1403</i>	NC_002662.1
<i>Lactococcus lactis KF147</i>	NC_013656.1; NC_013657.1
<i>Laribacter hongkongensis HLHK9</i>	NC_012559.1
<i>Lawsonia intracellularis PHE MN1 00</i>	NC_008011.1; NC_008012.1; NC_008013.1; NC_008014.1
<i>Leadbetterella byssophila DSM 17132</i>	NC_014655.1
<i>Legionella longbeachae NSW150</i>	NC_013861.1; NC_014544.1
<i>Legionella pneumophila 2300 99 Alcoy</i>	NC_014125.1
<i>Legionella pneumophila Corby</i>	NC_009494.2
<i>Legionella pneumophila Lens</i>	NC_006366.1; NC_006369.1
<i>Legionella pneumophila Paris</i>	NC_006365.1; NC_006368.1
<i>Legionella pneumophila Philadelphia 1</i>	NC_002942.5
<i>Leifsonia xyli CTCB07</i>	NC_006087.1
<i>Leptospira biflexa serovar Patoc Patoc 1 Ames</i>	NC_010842.1; NC_010845.1; NC_010846.1
<i>Leptospira biflexa serovar Patoc Patoc 1 Paris</i>	NC_010602.1; NC_010843.1; NC_010844.1
<i>Leptospira borgpetersenii serovar Hardjo bovis JB197</i>	NC_008510.1; NC_008511.1
<i>Leptospira borgpetersenii serovar Hardjo bovis L550</i>	NC_008508.1; NC_008509.1
<i>Leptospira interrogans serovar Copenhageni Fiocruz L1 130</i>	NC_005823.1; NC_005824.1
<i>Leptospira interrogans serovar Lai 56601</i>	NC_004342.2; NC_004343.2
<i>Leptothrix cholodnii SP 6</i>	NC_010524.1
<i>Leptotrichia buccalis C 1013 b</i>	NC_013192.1
<i>Leuconostoc C2</i>	NC_015734.1
<i>Leuconostoc citreum KM20</i>	NC_010466.1; NC_010467.1; NC_010469.1; NC_010470.1; NC_010471.1
<i>Leuconostoc gasicomitatum LMG 18811</i>	NC_014319.1
<i>Leuconostoc kimchii IMSNU 11154</i>	NC_014131.1; NC_014132.1; NC_014133.1; NC_014134.1; NC_014135.1; NC_014136.1
<i>Leuconostoc mesenteroides ATCC 8293</i>	NC_008496.1; NC_008531.1
<i>Listeria innocua Clip11262</i>	NC_003212.1; NC_003383.1
<i>Listeria ivanovii PAM 55</i>	NC_016011.1
<i>Listeria monocytogenes 08 5923</i>	NC_013768.1
<i>Listeria monocytogenes Clip80459</i>	NC_012488.1
<i>Listeria monocytogenes EGD e</i>	NC_003210.1
<i>Listeria monocytogenes HCC23</i>	NC_011660.1
<i>Listeria monocytogenes serotype 4b F2365</i>	NC_002973.6
<i>Listeria monocytogenes</i>	NC_013766.1; NC_013767.1
<i>Listeria seeligeri serovar 1 2b SLCC3954</i>	NC_013891.1
<i>Listeria welshimeri serovar 6b SLCC5334</i>	NC_008555.1
<i>Lysinibacillus sphaericus C3 41</i>	NC_010381.1; NC_010382.1
<i>Macrococcus caseolyticus JCSC5402</i>	NC_011995.1; NC_011996.1; NC_011997.1; NC_011998.1;
NC_011999.1; NC_012000.1; NC_012001.1; NC_012002.1; NC_012003.1	
<i>Magnetococcus MC 1</i>	NC_008576.1
<i>Magnetospirillum magneticum AMB 1</i>	NC_007626.1
<i>Mahella australiensis 50 1 BON</i>	NC_015520.1
<i>Mannheimia succiniciproducens MBEL55E</i>	NC_006300.1
<i>Maricaulis maris MCS10</i>	NC_008347.1
<i>Marinithermus hydrothermalis DSM 14884</i>	NC_015387.1
<i>Marinobacter aquaeolei VT8</i>	NC_008738.1; NC_008739.1; NC_008740.1
<i>Marinomonas mediterranea MMB 1</i>	NC_015276.1
<i>Marinomonas MWYL1</i>	NC_009654.1
<i>Marinomonas posidonica IVIA Po 181</i>	NC_015559.1
<i>Marivirga tractuosa DSM 4126</i>	NC_014750.1; NC_014759.1
<i>Megasphaera elsdenii DSM 20460</i>	NC_015873.1
<i>Meiothermus ruber DSM 1279</i>	NC_013946.1
<i>Meiothermus silvanus DSM 9946</i>	NC_014212.1; NC_014213.1; NC_014214.1
<i>Melissococcus plutonius ATCC 35311</i>	NC_015516.1; NC_015517.1
<i>Mesoplasma florum L1</i>	NC_006055.1
<i>Mesorhizobium ciceri biovar biserrulae WSM1271</i>	NC_014918.1; NC_014923.1
<i>Mesorhizobium loti MAFF303099</i>	NC_002678.2; NC_002679.1; NC_002682.1

<i>Mesorhizobium opportunistum</i> WSM2075	NC_015675.1
<i>Metallosphaera cuprina</i> Ar 4	NC_015435.1
<i>Metallosphaera sedula</i> DSM 5348	NC_009440.1
<i>Methanobacterium</i> AL 21	NC_015216.1
<i>Methanobacterium</i> SWAN 1	NC_015574.1
<i>Methanobrevibacter ruminantium</i> M1	NC_013790.1
<i>Methanobrevibacter smithii</i> ATCC 35061	NC_009515.1
<i>Methanocaldococcus fervens</i> AG86	NC_013156.1; NC_013157.1
<i>Methanocaldococcus</i> FS406 22	NC_013887.1; NC_013888.1
<i>Methanocaldococcus infernus</i> ME	NC_014122.1
<i>Methanocaldococcus jannaschii</i> DSM 2661	NC_000909.1; NC_001732.1; NC_001733.1
<i>Methanocaldococcus vulcanius</i> M7	NC_013407.1; NC_013408.1; NC_013409.1
<i>Methanocella paludicola</i> SANAE	NC_013665.1
<i>Methanococcoides burtonii</i> DSM 6242	NC_007955.1
<i>Methanococcus aeolicus</i> Nankai 3	NC_009635.1
<i>Methanococcus maripaludis</i> C5	NC_009135.1; NC_009136.1
<i>Methanococcus maripaludis</i> C6	NC_009975.1
<i>Methanococcus maripaludis</i> C7	NC_009637.1
<i>Methanococcus maripaludis</i> S2	NC_005791.1
<i>Methanococcus maripaludis</i> X1	NC_015847.1
<i>Methanococcus maripaludis</i> XI	NC_015847.1
<i>Methanococcus vanniellii</i> SB	NC_009634.1
<i>Methanococcus voltae</i> A3	NC_014222.1
<i>Methanocorpusculum labreanum</i> Z	NC_008942.1
<i>Methanoculleus marisnigri</i> JR1	NC_009051.1
<i>Methanohalobium evestigatum</i> Z 7303	NC_014253.1; NC_014254.1
<i>Methanohalophilus mahii</i> DSM 5219	NC_014002.1
<i>Methanoplanus petrolearius</i> DSM 11571	NC_014507.1
<i>Methanopyrus kandleri</i> AV19	NC_003551.1
<i>Methanoregula boonei</i> 6A8	NC_009712.1
<i>Methanosaceta concilii</i> GP6	NC_015416.1; NC_015430.1
<i>Methanosaceta thermophila</i> PT	NC_008553.1
<i>Methanosalsum zhilinae</i> DSM 4017	NC_015676.1
<i>Methanosarcina acetivorans</i> C2A	NC_003552.1
<i>Methanosarcina barkeri</i> Fusaro	NC_007349.1; NC_007355.1
<i>Methanosarcina mazei</i> Go1	NC_003901.1
<i>Methanosphaera stadtmanae</i> DSM 3091	NC_007681.1
<i>Methanosphaerula palustris</i> E1 9c	NC_011832.1
<i>Methanospirillum hungatei</i> JF 1	NC_007796.1
<i>Methanothermobacter marburgensis</i> Marburg	NC_014408.1; NC_014409.1
<i>Methanothermobacter thermautotrophicus</i> Delta H	NC_000916.1
<i>Methanothermococcus okinawensis</i> IH1	NC_015632.1; NC_015636.1
<i>Methanothermus fervidus</i> DSM 2088	NC_014658.1
<i>Methanotorris igneus</i> Kol 5	NC_015562.1
<i>Methylococcoides burtonii</i> DSM 5219	NC_014002.1
<i>Methylobacterium extorquens</i> AM1	NC_012807.1; NC_012808.1; NC_012809.1; NC_012810.1; NC_012811.1
<i>Methylobacterium extorquens</i> DM4	NC_012987.1; NC_012988.1; NC_012989.1
<i>Methylobacterium extorquens</i> PA1	NC_010172.1
<i>Methylobacterium nodulans</i> ORS 2060	NC_011887.1; NC_011888.1; NC_011889.1; NC_011890.1; NC_011892.1; NC_011893.1; NC_011894.1; NC_011895.1
<i>Methylobacterium populi</i> BJ001	NC_010721.1; NC_010725.1; NC_010727.1
<i>Methylobacterium radiotolerans</i> JCM 2831	NC_010502.1; NC_010504.1; NC_010505.1; NC_010507.1; NC_010509.1; NC_010510.1; NC_010514.1; NC_010517.1; NC_010518.1

<i>Methylocella silvestris</i> BL2	NC_011666.1
<i>Methylococcus capsulatus</i> Bath	NC_002977.6
<i>Methyломicrobium alcaliphilum</i>	NC_016112.1
<i>Methylomonas methanica</i> MC09	NC_015572.1
<i>Methylothera</i> 301	NC_014207.1
<i>Methylothera mobilis</i> JLW8	NC_012968.1
<i>Methylovorus glucosetrophus</i> SIP3 4	NC_012969.1; NC_012970.1; NC_012972.1
<i>Methylovorus</i> MP688	NC_014733.1
<i>Micavibrio aeruginosavorus</i> ARL 13	NC_016026.1
<i>Microbacterium testaceum</i> StLB037	NC_015125.1
<i>Micrococcus luteus</i> NCTC 2665	NC_012803.1
<i>Microcystis aeruginosa</i> NIES 843	NC_010296.1
<i>Microlunatus phosphovorus</i> NM 1	NC_015635.1
<i>Micromonospora aurantiaca</i> ATCC 27029	NC_014391.1
<i>Micromonospora</i> L5	NC_014815.1
<i>Mobiluncus curtisii</i> ATCC 43063	NC_014246.1
<i>Moorella thermoacetica</i> ATCC 39073	NC_007644.1
<i>Morazella catarrhalis</i> RH4	NC_014147.1
<i>Muricauda ruestringensis</i> DSM 13258	NC_015945.1
<i>Mycobacterium abscessus</i> ATCC 19977	NC_010394.1; NC_010397.1
<i>Mycobacterium africanum</i> GM041182	NC_015758.1
<i>Mycobacterium avium</i> 104	NC_008595.1
<i>Mycobacterium avium</i> paratuberculosis K 10	NC_002944.2
<i>Mycobacterium bovis</i> AF2122 97	NC_002945.3
<i>Mycobacterium bovis</i> BCG Pasteur 1173P2	NC_008769.1
<i>Mycobacterium bovis</i> BCG Tokyo 172	NC_012207.1
<i>Mycobacterium canettii</i>	NC_015848.1
<i>Mycobacterium gilvum</i> PYR GCK	NC_009338.1; NC_009339.1; NC_009340.1; NC_009341.1
<i>Mycobacterium</i> JDM601	NC_015576.1
<i>Mycobacterium</i> JLS	NC_009077.1
<i>Mycobacterium</i> KMS	NC_008703.1; NC_008704.1; NC_008705.1
<i>Mycobacterium leprae</i> Br4923	NC_011896.1
<i>Mycobacterium leprae</i> TN	NC_002677.1
<i>Mycobacterium marinum</i> M	NC_010604.1; NC_010612.1
<i>Mycobacterium</i> MCS	NC_008146.1; NC_008147.1
<i>Mycobacterium smegmatis</i> MC2 155	NC_008596.1
<i>Mycobacterium</i> Spyr1	NC_014811.1; NC_014812.1; NC_014814.1
<i>Mycobacterium tuberculosis</i> CDC1551	NC_002755.2
<i>Mycobacterium tuberculosis</i> F11	NC_009565.1
<i>Mycobacterium tuberculosis</i> H37Ra	NC_009525.1
<i>Mycobacterium tuberculosis</i> H37Rv	NC_000962.2
<i>Mycobacterium tuberculosis</i> KZN 1435	NC_012943.1
<i>Mycobacterium ulcerans</i> Agy99	NC_005916.1; NC_008611.1
<i>Mycobacterium vanbaalenii</i> PYR 1	NC_008726.1
<i>Mycoplasma agalactiae</i> PG2	NC_009497.1
<i>Mycoplasma agalactiae</i>	NC_013948.1
<i>Mycoplasma arthritidis</i> 158L3 1	NC_011025.1
<i>Mycoplasma bovis</i> Hubei 1	NC_015725.1
<i>Mycoplasma bovis</i> PG45	NC_014760.1
<i>Mycoplasma capricolum</i> ATCC 27343	NC_007633.1
<i>Mycoplasma conjunctivae</i> HRC 581	NC_012806.1
<i>Mycoplasma crocodyli</i> MP145	NC_014014.1
<i>Mycoplasma fermentans</i> JER	NC_014552.1
<i>Mycoplasma fermentans</i> M64	NC_014921.1
<i>Mycoplasma gallisepticum</i> R low	NC_004829.2
<i>Mycoplasma genitalium</i> G37	NC_000908.2
<i>Mycoplasma haemofelis</i> Langford 1	NC_014970.1

<i>Mycoplasma hominis</i> ATCC 23114	NC_013511.1
<i>Mycoplasma hyopneumoniae</i> 232	NC_006360.1
<i>Mycoplasma hyopneumoniae</i> 7448	NC_007332.1
<i>Mycoplasma hyopneumoniae</i> J	NC_007295.1
<i>Mycoplasma hyorhinis</i> HUB 1	NC_014448.1
<i>Mycoplasma leachii</i> PG50	NC_014751.1
<i>Mycoplasma mobile</i> 163K	NC_006908.1
<i>Mycoplasma mycoides</i> capri LC 95010	NC_015407.1; NC_015431.1
<i>Mycoplasma mycoides</i> SC PG1	NC_005364.2
<i>Mycoplasma penetrans</i> HF 2	NC_004432.1
<i>Mycoplasma pneumoniae</i> M129	NC_000912.1
<i>Mycoplasma pulmonis</i> UAB CTIP	NC_002771.1
<i>Mycoplasma putrefaciens</i> KS1	NC_015946.1
<i>Mycoplasma suis</i> Illinois	NC_015155.1
<i>Mycoplasma suis</i> KI3806	NC_015153.1
<i>Mycoplasma synoviae</i> 53	NC_007294.1
<i>Myzococcus fulvus</i> HW 1	NC_015711.1
<i>Myzococcus xanthus</i> DK 1622	NC_008095.1
<i>Nakamurella multipartita</i> DSM 44233	NC_013235.1
<i>Nanoarchaeum equitans</i> Kin4 M	NC_005213.1
<i>Natranaerobius thermophilus</i> JW NM WN LF	NC_010715.1; NC_010718.1; NC_010724.1
<i>Natrialba magadii</i> ATCC 43099	NC_013922.1; NC_013923.1; NC_013924.1; NC_013925.1
<i>Natronomonas pharaonis</i> DSM 2160	NC_007426.1; NC_007427.1; NC_007428.1
<i>Nautilia profundicola</i> AmH	NC_012115.1
<i>Neisseria gonorrhoeae</i> FA 1090	NC_002946.2
<i>Neisseria gonorrhoeae</i> NCCP11945	NC_011034.1; NC_011035.1
<i>Neisseria lactamica</i> 020 06	NC_014752.1
<i>Neisseria meningitidis</i> 053442	NC_010120.1
<i>Neisseria meningitidis</i> alpha14	NC_013016.1
<i>Neisseria meningitidis</i> FAM18	NC_008767.1
<i>Neisseria meningitidis</i> MC58	NC_003112.2
<i>Neisseria meningitidis</i> Z2491	NC_003116.1
<i>Neorickettsia risticii</i> Illinois	NC_013009.1
<i>Neorickettsia sennetsu</i> Miyayama	NC_007798.1
<i>Nitratifractor salsuginis</i> DSM 16511	NC_014935.1
<i>Nitratiruptor</i> SB155 2	NC_009662.1
<i>Nitrobacter hamburgensis</i> X14	NC_007959.1; NC_007960.1; NC_007961.1; NC_007964.1
<i>Nitrobacter winogradskyi</i> Nb 255	NC_007406.1
<i>Nitrosococcus halophilus</i> Nc4	NC_013958.1; NC_013960.1
<i>Nitrosococcus oceani</i> ATCC 19707	NC_007483.1; NC_007484.1
<i>Nitrosococcus watsonii</i> C 113	NC_014315.1; NC_014316.1; NC_014317.1
<i>Nitrosomonas</i> AL212	NC_015221.1; NC_015222.1; NC_015223.1
<i>Nitrosomonas europaea</i> ATCC 19718	NC_004757.1
<i>Nitrosomonas eutropha</i> C91	NC_008341.1; NC_008342.1; NC_008344.1
<i>Nitrosomonas</i> Is79A3	NC_015731.1
<i>Nitrosopumilus maritimus</i> SCM1	NC_010085.1
<i>Nitrospira multiformis</i> ATCC 25196	NC_007614.1; NC_007615.1; NC_007616.1; NC_007617.1
<i>Nocardia farcinica</i> IFM 10152	NC_006361.1; NC_006362.1; NC_006363.1
<i>Nocardioides</i> JS614	NC_008697.1; NC_008699.1
<i>Nocardiopsis dassonvillei</i> DSM 43111	NC_014210.1; NC_014211.1
<i>Nostoc azollae</i> 0708	NC_014248.1; NC_014249.1; NC_014250.1
<i>Nostoc</i> PCC 7120	NC_003240.1; NC_003241.1; NC_003267.1; NC_003270.1; NC_003272.1; NC_003273.1; NC_003276.1
<i>Nostoc punctiforme</i> PCC 73102	NC_010628.1; NC_010629.1; NC_010630.1; NC_010631.1; NC_010632.1; NC_010633.1
<i>Novosphingobium aromaticivorans</i> DSM 12444	NC_007794.1; NC_009426.1; NC_009427.1
<i>Novosphingobium</i> PP1Y	NC_015579.1; NC_015580.1; NC_015582.1; NC_015583.1
<i>Oceanithermus profundus</i> DSM 14977	NC_014753.1; NC_014761.1
<i>Oceanobacillus ihoyensis</i> HTE831	NC_004193.1

<i>Ochrobactrum anthropi</i> ATCC 49188	NC_009667.1; NC_009668.1; NC_009669.1; NC_009670.1; NC_009671.1; NC_009672.1
<i>Odoribacter splanchnicus</i> DSM 20712	NC_015160.1
<i>Oenococcus oeni</i> PSU 1	NC_008528.1
<i>Oligotropha carbozidovorans</i> OM5	NC_011386.1
<i>Oligotropha carbozidovorans</i> OM5	NC_015684.1; NC_015685.1; NC_015689.1
<i>Olsenella uli</i> DSM 7084	NC_014363.1
<i>Onion yellows phytoplasma</i> OY M	NC_005303.2
<i>Opitutus terrae</i> PB90 1	NC_010571.1
<i>Orientia tsutsugamushi</i> Boryong	NC_009488.1
<i>Orientia tsutsugamushi</i> Ikeda	NC_010793.1
<i>Oscillibacter valericigenes</i>	NC_016046.1; NC_016048.1
<i>Paenibacillus</i> JDR 2	NC_012914.1
<i>Paenibacillus mucilaginosus</i> KNP414	NC_015690.1
<i>Paenibacillus polymyxa</i> E681	NC_014483.1
<i>Paenibacillus polymyxa</i> SC2	NC_014622.1; NC_014628.1
<i>Paenibacillus</i> Y412MC10	NC_013406.1
<i>Paludibacter propionigenes</i> WB4	NC_014734.1
<i>Pantoea ananatis</i> LMG 20103	NC_013956.2
<i>Pantoea</i> At 9b	NC_014837.1; NC_014838.1; NC_014839.1; NC_014840.1; NC_014841.1; NC_014842.1
<i>Pantoea vagans</i> C9 1	NC_014258.1; NC_014561.1; NC_014562.1; NC_014563.1
<i>Parabacteroides distasonis</i> ATCC 8503	NC_009615.1
<i>Parachlamydia acanthamoebae</i> UV7	NC_015702.1
<i>Paracoccus denitrificans</i> PD1222	NC_008686.1; NC_008687.1; NC_008688.1
<i>Parvibaculum lavamentivorans</i> DS 1	NC_009719.1
<i>Parvularcula bermudensis</i> HTCC2503	NC_014414.1
<i>Pasteurella multocida</i> Pm70	NC_002663.1
<i>Pectobacterium atrosepticum</i> SCRI1043	NC_004547.2
<i>Pectobacterium carotovorum</i> PC1	NC_012917.1
<i>Pectobacterium wasabiae</i> WPP163	NC_013421.1
<i>Pediococcus pentosaceus</i> ATCC 25745	NC_008525.1
<i>Pedobacter heparinus</i> DSM 2366	NC_013061.1
<i>Pedobacter saltans</i> DSM 12145	NC_015177.1
<i>Pelagibacterium halotolerans</i> B2	NC_016078.1; NC_016079.1
<i>Pelobacter carbinolicus</i> DSM 2380	NC_007498.2
<i>Pelobacter propionicus</i> DSM 2379	NC_008607.1; NC_008608.1; NC_008609.1
<i>Pelodictyon phaeoclathratiforme</i> BU 1	NC_011060.1
<i>Pelotomaculum thermopropionicum</i> SI	NC_009454.1
<i>Persephonella marina</i> EX H1	NC_012439.1; NC_012440.1
<i>Petrogoga mobilis</i> SJ95	NC_010003.1
<i>Phenyllobacterium zucineum</i> HLK1	NC_011143.1; NC_011144.1
<i>Photobacterium profundum</i> SS9	NC_005871.1; NC_006370.1; NC_006371.1
<i>Photorhabdus asymbiotica</i> ATCC 43949	NC_012961.1; NC_012962.1
<i>Photorhabdus luminescens</i> laumondii TTO1	NC_005126.1
<i>Picrophilus torridus</i> DSM 9790	NC_005877.1
<i>Pirellula staleyi</i> DSM 6068	NC_013720.1
<i>Planctomyces brasiliensis</i> DSM 5305	NC_015174.1
<i>Planctomyces limnophilus</i> DSM 3776	NC_014148.1; NC_014149.1
<i>Polaromonas</i> JS666	NC_007948.1; NC_007949.1; NC_007950.1
<i>Polaromonas naphthalenivorans</i> CJ2	NC_008757.1; NC_008758.1; NC_008759.1; NC_008760.1; NC_008761.1; NC_008762.1; NC_008763.1; NC_008764.1; NC_008781.1
<i>Polymorphum gilvum</i> SL003B 26A1	NC_015258.1; NC_015259.1
<i>Polynucleobacter necessarius</i> asymbioticus QLW P1DMWA 1	NC_009379.1
<i>Polynucleobacter necessarius</i> STIR1	NC_010531.1
<i>Porphyromonas asaccharolytica</i> DSM 20707	NC_015501.1
<i>Porphyromonas gingivalis</i> ATCC 33277	NC_010729.1
<i>Porphyromonas gingivalis</i> TDC60	NC_015571.1
<i>Porphyromonas gingivalis</i> W83	NC_002950.2

<i>Prevotella denticola</i> F0289	NC_015311.1
<i>Prevotella melaninogenica</i> ATCC 25845	NC_014370.1; NC_014371.1
<i>Prevotella ruminicola</i> 23	NC_014033.1
<i>Prochlorococcus marinus</i> AS9601	NC_008816.1
<i>Prochlorococcus marinus</i> CCMP1375	NC_005042.1
<i>Prochlorococcus marinus</i> MIT 9211	NC_009976.1
<i>Prochlorococcus marinus</i> MIT 9215	NC_009840.1
<i>Prochlorococcus marinus</i> MIT 9301	NC_009091.1
<i>Prochlorococcus marinus</i> MIT 9303	NC_008820.1
<i>Prochlorococcus marinus</i> MIT 9312	NC_007577.1
<i>Prochlorococcus marinus</i> MIT 9313	NC_005071.1
<i>Prochlorococcus marinus</i> MIT 9515	NC_008817.1
<i>Prochlorococcus marinus</i> NATL1A	NC_008819.1
<i>Prochlorococcus marinus</i> NATL2A	NC_007335.2
<i>Prochlorococcus marinus</i> pastoris CCMP1986	NC_005072.1
<i>Propionibacterium acnes</i> KPA171202	NC_006085.1
<i>Propionibacterium acnes</i> SK137	NC_014039.1
<i>Propionibacterium freudenreichii</i> shermanii CIRM BIA1	NC_014215.1
<i>Prosthecochloris aestuarii</i> DSM 271	NC_011059.1; NC_011061.1
<i>Proteus mirabilis</i> HI4320	NC_010554.1; NC_010555.1
<i>Pseudoalteromonas atlantica</i> T6c	NC_008228.1
<i>Pseudoalteromonas haloplanktis</i> TAC125	NC_007481.1; NC_007482.1
<i>Pseudoalteromonas</i> SM9913	NC_014800.1; NC_014803.1
<i>Pseudogulbenkiania</i> NH8B	NC_016002.1
<i>Pseudomonas aeruginosa</i> LESB58	NC_011770.1
<i>Pseudomonas aeruginosa</i> PA7	NC_009656.1
<i>Pseudomonas aeruginosa</i> PAO1	NC_002516.2
<i>Pseudomonas aeruginosa</i> UCBPP PA14	NC_008463.1
<i>Pseudomonas brassicaearum</i> NFM421	NC_015379.1
<i>Pseudomonas entomophila</i> L48	NC_008027.1
<i>Pseudomonas fluorescens</i> Pf0 1	NC_007492.2
<i>Pseudomonas fluorescens</i> Pf 5	NC_004129.6
<i>Pseudomonas fluorescens</i> SBW25	NC_009444.1; NC_012660.1
<i>Pseudomonas fulva</i> 12 X	NC_015556.1
<i>Pseudomonas mendocina</i> NK 01	NC_015410.1
<i>Pseudomonas mendocina</i> ymp	NC_009439.1
<i>Pseudomonas putida</i> F1	NC_009512.1
<i>Pseudomonas putida</i> GB 1	NC_010322.1
<i>Pseudomonas putida</i> KT2440	NC_002947.3
<i>Pseudomonas putida</i> S16	NC_015733.1
<i>Pseudomonas putida</i> W619	NC_010501.1
<i>Pseudomonas stutzeri</i> A1501	NC_009434.1
<i>Pseudomonas stutzeri</i> ATCC 17588 LMG 11199	NC_015740.1
<i>Pseudomonas syringae</i> B728a	NC_007005.1
<i>Pseudomonas syringae</i> phaseolicola 1448A	NC_005773.3; NC_007274.1; NC_007275.1
<i>Pseudomonas syringae</i> tomato DC3000	NC_004578.1; NC_004632.1; NC_004633.1
<i>Pseudonocardia diozanivorans</i> CB1190	NC_015312.1; NC_015313.1; NC_015314.1
<i>Pseudoxanthomonas spadix</i> BD a59	NC_016147.1
<i>Pseudoxanthomonas suwonensis</i> 11 1	NC_014924.1
<i>Psychrobacter arcticus</i> 273 4	NC_007204.1
<i>Psychrobacter cryohalolentis</i> K5	NC_007968.1; NC_007969.1
<i>Psychrobacter</i> PRwf 1	NC_009516.1; NC_009517.1; NC_009524.1
<i>Psychromonas ingrahamii</i> 37	NC_008709.1
<i>Pusillimonas</i> T7 7	NC_015458.1; NC_015459.1
<i>Pyrobaculum aerophilum</i> IM2	NC_003364.1
<i>Pyrobaculum arsenaticum</i> DSM 13514	NC_009376.1
<i>Pyrobaculum caldifontis</i> JCM 11548	NC_009073.1

<i>Pyrobaculum islandicum</i> DSM 4184	NC_008701.1
<i>Pyrococcus abyssi</i> GE5	NC_000868.1; NC_001773.1
<i>Pyrococcus furiosus</i> DSM 3638	NC_003413.1
<i>Pyrococcus horikoshii</i> OT3	NC_000961.1
<i>Pyrococcus</i> NA2	NC_015474.1
<i>Pyrococcus yamanosii</i> CH1	NC_015680.1
<i>Pyrolobus fumarii</i> 1A	NC_015931.1
<i>Rahnella</i> Y9602	NC_015061.1; NC_015062.1; NC_015063.1
<i>Ralstonia eutropha</i> H16	NC_005241.1; NC_008313.1; NC_008314.1
<i>Ralstonia eutropha</i> JMP134	NC_007336.1; NC_007337.1; NC_007347.1; NC_007348.1
<i>Ralstonia pickettii</i> 12D	NC_012849.1; NC_012851.1; NC_012855.1; NC_012856.1; NC_012857.1
<i>Ralstonia pickettii</i> 12J	NC_010678.1; NC_010682.1; NC_010683.1
<i>Ralstonia solanacearum</i> CFBP2957	NC_014307.1
<i>Ralstonia solanacearum</i> GM11000	NC_003295.1; NC_003296.1
<i>Ralstonia solanacearum</i> PSI07	NC_014310.1; NC_014311.1
<i>Ramlibacter tataouinensis</i> TTB310	NC_015677.1
<i>Renibacterium salmoninarum</i> ATCC 33209	NC_010168.1
<i>Rhizobium etli</i> CFN 42	NC_004041.2; NC_007761.1; NC_007762.1; NC_007763.1; NC_007764.1; NC_007765.1; NC_007766.1
<i>Rhizobium etli</i> CIAT 652	NC_010994.1; NC_010996.1; NC_010997.1; NC_010998.1
<i>Rhizobium leguminosarum</i> bv trifolii WSM1325	NC_012848.1; NC_012850.1; NC_012852.1; NC_012853.1; NC_012854.1; NC_012858.1
<i>Rhizobium leguminosarum</i> bv trifolii WSM2304	NC_011366.1; NC_011368.1; NC_011369.1; NC_011370.1; NC_011371.1
<i>Rhizobium leguminosarum</i> bv viciae 3841	NC_008378.1; NC_008379.1; NC_008380.1; NC_008381.1; NC_008382.1; NC_008383.1; NC_008384.1
<i>Rhizobium</i> NGR234	NC_000914.2; NC_012586.1; NC_012587.1
<i>Rhodobacter capsulatus</i> SB 1003	NC_014034.1; NC_014035.1
<i>Rhodobacter sphaeroides</i> 2 4 1	NC_007488.1; NC_007489.1; NC_007490.1; NC_007493.1; NC_007494.1; NC_009007.1; NC_009008.1
<i>Rhodobacter sphaeroides</i> ATCC 17025	NC_009428.1; NC_009429.1; NC_009430.1; NC_009431.1; NC_009432.1; NC_009433.1
<i>Rhodobacter sphaeroides</i> ATCC 17029	NC_009040.1; NC_009049.1; NC_009050.1
<i>Rhodobacter sphaeroides</i> KD131	NC_011958.1; NC_011960.1; NC_011962.1; NC_011963.1
<i>Rhodococcus equi</i> 103S	NC_014659.1
<i>Rhodococcus erythropolis</i> PR4	NC_007486.1; NC_007487.1; NC_007491.1; NC_012490.1
<i>Rhodococcus jostii</i> RHA1	NC_008268.1; NC_008269.1; NC_008270.1; NC_008271.1
<i>Rhodococcus opacus</i> B4	NC_006969.2; NC_006970.2; NC_012520.1; NC_012521.1; NC_012522.1; NC_012523.1
<i>Rhodoferax ferrireducens</i> T118	NC_007901.1; NC_007908.1
<i>Rhodomicrobium vannielii</i> ATCC 17100	NC_014664.1
<i>Rhodopirellula baltica</i> SH 1	NC_005027.1
<i>Rhodopseudomonas palustris</i> BisA53	NC_008435.1
<i>Rhodopseudomonas palustris</i> BisB18	NC_007925.1
<i>Rhodopseudomonas palustris</i> BisB5	NC_007958.1
<i>Rhodopseudomonas palustris</i> CGA009	NC_005296.1; NC_005297.1
<i>Rhodopseudomonas palustris</i> DX 1	NC_014834.1
<i>Rhodopseudomonas palustris</i> HaA2	NC_007778.1
<i>Rhodopseudomonas palustris</i> TIE 1	NC_011004.1
<i>Rhodospirillum centenum</i> SW	NC_011420.2
<i>Rhodospirillum rubrum</i> ATCC 11170	NC_007641.1; NC_007643.1
<i>Rhodothermus marinus</i> DSM 4252	NC_013501.1; NC_013502.1
<i>Rhodothermus marinus</i> SG0 5JP17 172	NC_015966.1; NC_015967.1; NC_015970.1
<i>Rickettsia africae</i> ESF 5	NC_012633.1; NC_012634.1
<i>Rickettsia akari</i> Hartford	NC_009881.1
<i>Rickettsia bellii</i> OSU 85 389	NC_009883.1
<i>Rickettsia bellii</i> RML369 C	NC_007940.1
<i>Rickettsia canadensis</i> McKiel	NC_009879.1
<i>Rickettsia conorii</i> Malish 7	NC_003103.1
<i>Rickettsia felis</i> URRWXCal2	NC_007109.1; NC_007110.1; NC_007111.1
<i>Rickettsia heilongjiangensis</i> 054	NC_015866.1
<i>Rickettsia japonica</i> YH	NC_016050.1
<i>Rickettsia massiliae</i> MTU5	NC_009897.1; NC_009900.1
<i>Rickettsia peacockii</i> Rustic	NC_012730.1; NC_012732.1

<i>Rickettsia prowazekii</i> Madrid E	NC_000963.1
<i>Rickettsia rickettsii</i> Iowa	NC_010263.2
<i>Rickettsia rickettsii</i> Sheila Smith	NC_009882.1
<i>Rickettsia typhi</i> Wilmington	NC_006142.1
<i>Riemerella anatipestifer</i> DSM 15868	NC_014738.1
<i>Robiginitalea biformata</i> HTCC2501	NC_013222.1
<i>Roseburia hominis</i> A2 183	NC_015977.1
<i>Roseiflexus castenholzii</i> DSM 13941	NC_009767.1
<i>Roseiflexus</i> RS 1	NC_009523.1
<i>Roseobacter denitrificans</i> OCh 114	NC_008209.1; NC_008386.1; NC_008387.1; NC_008388.1; NC_008389.1
<i>Roseobacter litoralis</i> Och 149	NC_015728.1; NC_015729.1; NC_015730.1; NC_015741.1
<i>Rothia dentocariosa</i> ATCC 17931	NC_014643.1
<i>Rothia mucilaginosa</i>	NC_013715.1
<i>Rubrobacter xylanophilus</i> DSM 9941	NC_008148.1
<i>Ruegeria pomeroyi</i> DSS 3	NC_003911.11; NC_006569.1
<i>Ruegeria</i> TM1040	NC_008042.1; NC_008043.1; NC_008044.1
<i>Ruminococcus albus</i> 7	NC_014824.1; NC_014825.1; NC_014826.1; NC_014827.1; NC_014833.1
<i>Runella slithyformis</i> DSM 19594	NC_015693.1; NC_015694.1; NC_015695.1; NC_015703.1; NC_015704.1; NC_015705.1
<i>Saccharomonospora viridis</i> DSM 43017	NC_013159.1
<i>Saccharophagus degradans</i> 2 40	NC_007912.1
<i>Saccharopolyspora erythraea</i> NRRL 2338	NC_009142.1
<i>Salinibacter ruber</i> DSM 13855	NC_007677.1; NC_007678.1
<i>Salinibacter ruber</i> M8	NC_014026.1; NC_014028.1; NC_014030.1; NC_014032.1
<i>Salinispora arenicola</i> CNS 205	NC_009953.1
<i>Salinispora tropica</i> CNB 440	NC_009380.1
<i>Salmonella bongori</i> NCTC 12419	NC_015761.1
<i>Salmonella enterica</i> arizonae serovar 62 z4 z23 RSK2980	NC_010067.1
<i>Salmonella enterica</i> serovar Agona SL483	NC_011148.1; NC_011149.1
<i>Salmonella enterica</i> serovar Choleraesuis SC B67	NC_006855.1; NC_006856.1; NC_006905.1
<i>Salmonella enterica</i> serovar Dublin CT 02021853	NC_011204.1; NC_011205.1
<i>Salmonella enterica</i> serovar Enteritidis P125109	NC_011294.1
<i>Salmonella enterica</i> serovar Gallinarum 287 91	NC_011274.1
<i>Salmonella enterica</i> serovar Heidelberg SL476	NC_011081.1; NC_011082.1; NC_011083.1
<i>Salmonella enterica</i> serovar Newport SL254	NC_009140.1; NC_011079.1; NC_011080.1
<i>Salmonella enterica</i> serovar Paratyphi A AKU 12601	NC_011147.1
<i>Salmonella enterica</i> serovar Paratyphi A ATCC 9150	NC_006511.1
<i>Salmonella enterica</i> serovar Paratyphi B SPB7	NC_010102.1
<i>Salmonella enterica</i> serovar Paratyphi C RKS4594	NC_012124.1; NC_012125.1
<i>Salmonella enterica</i> serovar Schwarzengrund CVM19633	NC_011092.1; NC_011093.1; NC_011094.1
<i>Salmonella enterica</i> serovar Typhi CT18	NC_003198.1; NC_003384.1; NC_003385.1
<i>Salmonella enterica</i> serovar Typhimurium LT2	NC_003197.1; NC_003277.1
<i>Salmonella enterica</i> serovar Typhi Ty2	NC_004631.1
<i>Sanguibacter keddicii</i> DSM 10542	NC_013521.1
<i>Sealdella termitidis</i> ATCC 33386	NC_013517.1; NC_013518.1; NC_013519.1
<i>Segniliparus rotundus</i> DSM 44985	NC_014168.1
<i>Serratia</i> AS12	NC_015566.1
<i>Serratia</i> AS9	NC_015567.1
<i>Serratia proteamaculans</i> 568	NC_009829.1; NC_009832.1
<i>Shewanella amazonensis</i> SB2B	NC_008700.1
<i>Shewanella</i> ANA 3	NC_008573.1; NC_008577.1
<i>Shewanella baltica</i> OS155	NC_009035.1; NC_009036.1; NC_009037.1; NC_009038.1; NC_009052.1
<i>Shewanella baltica</i> OS185	NC_009661.1; NC_009665.1
<i>Shewanella baltica</i> OS195	NC_009997.1; NC_009998.1; NC_009999.1; NC_010000.1
<i>Shewanella baltica</i> OS223	NC_011663.1; NC_011664.1; NC_011665.1; NC_011668.1
<i>Shewanella denitrificans</i> OS217	NC_007954.1
<i>Shewanella frigidimarina</i> NCIMB 400	NC_008345.1
<i>Shewanella halifazensis</i> HAW EB4	NC_010334.1

<i>Shewanella loihica</i> PV 4	NC_009092.1
<i>Shewanella</i> MR 4	NC_008321.1
<i>Shewanella</i> MR 7	NC_008320.1; NC_008322.1
<i>Shewanella oneidensis</i> MR 1	NC_004347.1; NC_004349.1
<i>Shewanella pealeana</i> ATCC 700345	NC_009901.1
<i>Shewanella piezotolerans</i> WP3	NC_011566.1
<i>Shewanella putrefaciens</i> CN 32	NC_009438.1
<i>Shewanella sediminis</i> HAW EB3	NC_009831.1
<i>Shewanella violacea</i> DSS12	NC_014012.1
<i>Shewanella</i> W3 18 1	NC_008750.1
<i>Shewanella woodyi</i> ATCC 51908	NC_010506.1
<i>Shigella boydii</i> CDC 3083 94	NC_010656.1; NC_010657.1; NC_010658.1; NC_010659.1; NC_010660.1; NC_010672.1
<i>Shigella boydii</i> Sb227	NC_007608.1; NC_007613.1
<i>Shigella dysenteriae</i> Sd197	NC_007606.1; NC_007607.1; NC_009344.1
<i>Shigella flexneri</i> 2a 2457T	NC_004741.1
<i>Shigella flexneri</i> 2a 301	NC_004337.2; NC_004851.1
<i>Shigella flexneri</i> 5 8401	NC_008258.1
<i>Shigella sonnei</i> Ss046	NC_007384.1; NC_007385.1; NC_009345.1; NC_009346.1; NC_009347.1
<i>Sideroxydans lithotrophicus</i> ES 1	NC_013959.1
<i>Simkania negevensis</i> Z	NC_015710.1; NC_015713.1
<i>Sinorhizobium medicae</i> WSM419	NC_009620.1; NC_009621.1; NC_009622.1; NC_009636.1
<i>Sinorhizobium meliloti</i> 1021	NC_003037.1; NC_003047.1; NC_003078.1
<i>Sinorhizobium meliloti</i> AK83	NC_015590.1; NC_015591.1; NC_015592.1; NC_015596.1; NC_015597.1
<i>Slackia heliotrinireducens</i> DSM 20476	NC_013165.1
<i>Sodalis glossinidius</i> morsitans	NC_007712.1; NC_007713.1; NC_007714.1; NC_007715.1
<i>Sorangium cellulosum</i> So ce 56	NC_010162.1
<i>Sphaerobacter thermophilus</i> DSM 20745	NC_013523.1; NC_013524.1
<i>Sphingobacterium</i> 21	NC_015277.1
<i>Sphingobium chlorophenicum</i> L 1	NC_015593.1; NC_015594.1; NC_015595.1
<i>Sphingobium japonicum</i> UT26S	NC_014005.1; NC_014006.1; NC_014007.1; NC_014009.1; NC_014013.1
<i>Sphingobium</i> SYK 6	NC_015974.1; NC_015976.1
<i>Sphingomonas wittichii</i> RW1	NC_009507.1; NC_009508.1; NC_009511.1
<i>Sphingopyxis alaskensis</i> RB2256	NC_008036.1; NC_008048.1
<i>Spirochaeta</i> Buddy	NC_015152.1
<i>Spirochaeta caldaria</i> DSM 7334	NC_015732.1
<i>Spirochaeta coccoides</i> DSM 17374	NC_015436.1
<i>Spirochaeta smaragdinae</i> DSM 11293	NC_014364.1
<i>Spirochaeta thermophila</i> DSM 6192	NC_014484.1
<i>Spirosoma linguale</i> DSM 74	NC_013730.1; NC_013731.1; NC_013732.1; NC_013733.1; NC_013734.1; NC_013735.1; NC_013736.1; NC_013737.1; NC_013738.1
<i>Stackebrandtia nassauensis</i> DSM 44728	NC_013947.1
<i>Staphylococcus aureus</i> COL	NC_002951.2; NC_006629.2
<i>Staphylococcus aureus</i> ED98	NC_013450.1; NC_013451.1; NC_013452.1; NC_013453.1
<i>Staphylococcus aureus</i> JH1	NC_009619.1; NC_009632.1
<i>Staphylococcus aureus</i> JH9	NC_009477.1; NC_009487.1
<i>Staphylococcus aureus</i> MRSA252	NC_002952.2
<i>Staphylococcus aureus</i> MSSA476	NC_002953.3; NC_005951.1
<i>Staphylococcus aureus</i> Mu3	NC_009782.1
<i>Staphylococcus aureus</i> Mu50	NC_002758.2; NC_002774.1
<i>Staphylococcus aureus</i> MW2	NC_003923.1
<i>Staphylococcus aureus</i> N315	NC_002745.2; NC_003140.1
<i>Staphylococcus aureus</i> NCTC 8325	NC_007795.1
<i>Staphylococcus aureus</i> Newman	NC_009641.1
<i>Staphylococcus aureus</i> RF122	NC_007622.1
<i>Staphylococcus aureus</i> USA300 FPR3757	NC_007790.1; NC_007791.1; NC_007792.1; NC_007793.1
<i>Staphylococcus aureus</i> USA300 TCH1516	NC_010063.1; NC_010079.1; NC_012417.1
<i>Staphylococcus carnosus</i> TM300	NC_012121.1

<i>Staphylococcus epidermidis</i> ATCC 12228	NC_004461.1; NC_005003.1; NC_005004.1; NC_005005.1; NC_005006.1; NC_005007.1; NC_005008.1
<i>Staphylococcus epidermidis</i> RP62A	NC_002976.3; NC_006663.1
<i>Staphylococcus haemolyticus</i> JCSI1435	NC_007168.1; NC_007169.1; NC_007170.1; NC_007171.1
<i>Staphylococcus lugdunensis</i> HKU09 01	NC_013893.1
<i>Staphylococcus pseudintermedius</i> HKU10 03	NC_014925.1
<i>Staphylococcus saprophyticus</i> ATCC 15305	NC_007350.1; NC_007351.1; NC_007352.1
<i>Staphylothermus hellenicus</i> DSM 12710	NC_014205.1
<i>Staphylothermus marinus</i> F1	NC_009033.1
<i>Starkeya novella</i> DSM 506	NC_014217.1
<i>Stenotrophomonas maltophilia</i> K279a	NC_010943.1
<i>Stenotrophomonas maltophilia</i> R551 3	NC_011071.1
<i>Streptobacillus moniliformis</i> DSM 12112	NC_013515.1; NC_013516.1
<i>Streptococcus agalactiae</i> 2603V R	NC_004116.1
<i>Streptococcus agalactiae</i> A909	NC_007432.1
<i>Streptococcus agalactiae</i> NEM316	NC_004368.1
<i>Streptococcus dysgalactiae</i> equisimilis GGS 124	NC_012891.1
<i>Streptococcus equi</i> 4047	NC_012471.1
<i>Streptococcus equi</i> zooepidemicus MGCS10565	NC_011134.1
<i>Streptococcus equi</i> zooepidemicus	NC_012470.1
<i>Streptococcus gallolyticus</i> ATCC BAA 2069	NC_015215.1; NC_015219.1
<i>Streptococcus gallolyticus</i> UCN34	NC_013798.1
<i>Streptococcus gordonii</i> Challis substr CH1	NC_009785.1
<i>Streptococcus mitis</i> B6	NC_013853.1
<i>Streptococcus mutans</i> NN2025	NC_013928.1
<i>Streptococcus mutans</i> UA159	NC_004350.2
<i>Streptococcus oralis</i> Uo5	NC_015291.1
<i>Streptococcus parasanguinis</i> ATCC 15912	NC_015678.1
<i>Streptococcus parauberis</i> KCTC 11537	NC_015558.1
<i>Streptococcus pasteurianus</i> ATCC 43144	NC_015600.1
<i>Streptococcus pneumoniae</i> 670 6B	NC_014498.1
<i>Streptococcus pneumoniae</i> 70585	NC_012468.1
<i>Streptococcus pneumoniae</i> AP200	NC_014494.1
<i>Streptococcus pneumoniae</i> ATCC 700669	NC_011900.1
<i>Streptococcus pneumoniae</i> CGSP14	NC_010582.1
<i>Streptococcus pneumoniae</i> D39	NC_008533.1
<i>Streptococcus pneumoniae</i> G54	NC_011072.1
<i>Streptococcus pneumoniae</i> Hungary19A 6	NC_010380.1
<i>Streptococcus pneumoniae</i> JJA	NC_012466.1
<i>Streptococcus pneumoniae</i> P1031	NC_012467.1
<i>Streptococcus pneumoniae</i> R6	NC_003098.1
<i>Streptococcus pneumoniae</i> Taiwan19F 14	NC_012469.1
<i>Streptococcus pneumoniae</i> TCH8431 19A	NC_014251.1
<i>Streptococcus pneumoniae</i> TIGR4	NC_003028.3
<i>Streptococcus pseudopneumoniae</i> IS7493	NC_015875.1; NC_015876.1
<i>Streptococcus pyogenes</i> M1 GAS	NC_002737.1
<i>Streptococcus pyogenes</i> Manfredo	NC_009332.1
<i>Streptococcus pyogenes</i> MGAS10270	NC_008022.1
<i>Streptococcus pyogenes</i> MGAS10394	NC_006086.1
<i>Streptococcus pyogenes</i> MGAS10750	NC_008024.1
<i>Streptococcus pyogenes</i> MGAS2096	NC_008023.1
<i>Streptococcus pyogenes</i> MGAS315	NC_004070.1
<i>Streptococcus pyogenes</i> MGAS5005	NC_007297.1
<i>Streptococcus pyogenes</i> MGAS6180	NC_007296.1
<i>Streptococcus pyogenes</i> MGAS8232	NC_003485.1
<i>Streptococcus pyogenes</i> MGAS9429	NC_008021.1
<i>Streptococcus pyogenes</i> NZ131	NC_011375.1
<i>Streptococcus pyogenes</i> SSI 1	NC_004606.1

<i>Streptococcus salivarius CCHSS3</i>	NC_015760.1
<i>Streptococcus sanguinis SK36</i>	NC_009009.1
<i>Streptococcus suis 05ZYH33</i>	NC_009442.1
<i>Streptococcus suis 98HAH33</i>	NC_009443.1
<i>Streptococcus suis BM407</i>	NC_012923.1; NC_012926.1
<i>Streptococcus suis P1 7</i>	NC_012925.1
<i>Streptococcus suis SC84</i>	NC_012924.1
<i>Streptococcus suis ST3</i>	NC_015433.1
<i>Streptococcus thermophilus CNRZ1066</i>	NC_006449.1
<i>Streptococcus thermophilus LMD 9</i>	NC_008500.1; NC_008501.1; NC_008532.1
<i>Streptococcus thermophilus LMG 18311</i>	NC_006448.1
<i>Streptococcus uberis 0140J</i>	NC_012004.1
<i>Streptomyces avermitilis MA 4680</i>	NC_003155.4; NC_004719.1
<i>Streptomyces cattleya NRRL 8057</i>	NC_016111.1; NC_016113.1
<i>Streptomyces coelicolor A3 2</i>	NC_003888.3; NC_003903.1; NC_003904.1
<i>Streptomyces flavogriseus ATCC 33331</i>	NC_016110.1; NC_016114.1; NC_016115.1
<i>Streptomyces griseus NBRC 13350</i>	NC_010572.1
<i>Streptomyces scabiei 87 22</i>	NC_013929.1
<i>Streptomyces SirexAA E</i>	NC_015953.1
<i>Streptomyces violaceusniger Tu 4113</i>	NC_015951.1; NC_015952.1; NC_015957.1
<i>Streptosporangium roseum DSM 43021</i>	NC_013595.1; NC_013596.1
<i>Sulfobacillus acidophilus TPY</i>	NC_015757.1
<i>Sulfolobus acidocaldarius DSM 639</i>	NC_007181.1
<i>Sulfolobus islandicus L D 8 5</i>	NC_013769.1; NC_013770.1
<i>Sulfolobus islandicus L S 2 15</i>	NC_012589.1
<i>Sulfolobus islandicus M 14 25</i>	NC_012588.1
<i>Sulfolobus islandicus M 16 27</i>	NC_012632.1
<i>Sulfolobus islandicus M 16 4</i>	NC_012726.1
<i>Sulfolobus islandicus Y G 57 14</i>	NC_012622.1
<i>Sulfolobus islandicus Y N 15 51</i>	NC_012623.1; NC_012624.1
<i>Sulfolobus solfataricus P2</i>	NC_002754.1
<i>Sulfolobus tokodaii 7</i>	NC_003106.2
<i>Sulfuricurvum kujiense DSM 16994</i>	NC_014754.1; NC_014755.1; NC_014756.1; NC_014762.1; NC_014763.1
<i>Sulfurihydrogenibium azorense Az Fu1</i>	NC_012438.1
<i>Sulfurihydrogenibium YO3AOP1</i>	NC_010730.1
<i>Sulfurimonas autotrophica DSM 16294</i>	NC_014506.1
<i>Sulfurimonas denitrificans DSM 1251</i>	NC_007575.1
<i>Sulfurospirillum deleyianum DSM 6946</i>	NC_013512.1
<i>Sulfurovum NBC37 1</i>	NC_009663.1
<i>Symbiobacterium thermophilum IAM 14863</i>	NC_006177.1
<i>Synechococcus CC9311</i>	NC_008319.1
<i>Synechococcus CC9605</i>	NC_007516.1
<i>Synechococcus CC9902</i>	NC_007513.1
<i>Synechococcus elongatus PCC 6301</i>	NC_006576.1
<i>Synechococcus elongatus PCC 7942</i>	NC_007595.1; NC_007604.1
<i>Synechococcus JA 2 3B a 2 13</i>	NC_007776.1
<i>Synechococcus JA 3 3Ab</i>	NC_007775.1
<i>Synechococcus PCC 7002</i>	NC_010474.1; NC_010475.1; NC_010476.1; NC_010477.1; NC_010478.1; NC_010479.1; NC_010480.1
<i>Synechococcus RCC307</i>	NC_009482.1
<i>Synechococcus WH 7803</i>	NC_009481.1
<i>Synechococcus WH 8102</i>	NC_005070.1
<i>Synechocystis PCC 6803</i>	NC_000911.1; NC_005229.1; NC_005230.1; NC_005231.1; NC_005232.1
<i>Syntrophobacter fumaroxidans MPOB</i>	NC_008554.1
<i>Syntrophobotulus glycolicus DSM 8271</i>	NC_015172.1
<i>Syntrophomonas wolfei Goettingen</i>	NC_008346.1
<i>Syntrophothermus lipocalidus DSM 12680</i>	NC_014220.1
<i>Syntrophus aciditrophicus SB</i>	NC_007759.1

<i>Taylorella asinigenitalis</i> MCE3	NC_016043.1
<i>Taylorella equigenitalis</i> MCE9	NC_014914.1
<i>Tepidanaerobacter</i> Re1	NC_015519.1
<i>Teredinibacter turnerae</i> T7901	NC_012997.1
<i>Terriglobus saanensis</i> SP1PR4	NC_014963.1
<i>Tetragenococcus halophilus</i>	NC_016052.1
<i>Thauera</i> MZ1T	NC_011662.2; NC_011667.1
<i>Thermaerobacter marianensis</i> DSM 12885	NC_014831.1
<i>Thermanaerovibrio acidaminovorans</i> DSM 6589	NC_013522.1
<i>Thermincola potens</i> JR	NC_014152.1
<i>Thermoanaerobacter brockii</i> finnii Ako 1	NC_014964.1
<i>Thermoanaerobacter italicus</i> Ab9	NC_013921.1
<i>Thermoanaerobacterium thermosaccharolyticum</i> DSM 571	NC_014410.1
<i>Thermoanaerobacterium zylanolyticum</i> LX 11	NC_015555.1
<i>Thermoanaerobacter mathranii</i> A3	NC_014209.1
<i>Thermoanaerobacter pseudethanolicus</i> ATCC 33223	NC_010321.1
<i>Thermoanaerobacter tengcongensis</i> MB4	NC_003869.1
<i>Thermoanaerobacter wiegelsii</i> Rt8 B1	NC_015958.1
<i>Thermoanaerobacter</i> X513	NC_014538.1
<i>Thermoanaerobacter</i> X514	NC_010320.1
<i>Thermobaculum terrenum</i> ATCC BAA 798	NC_013525.1; NC_013526.1
<i>Thermobifida fusca</i> YX	NC_007333.1
<i>Thermobispora bispora</i> DSM 43833	NC_014165.1
<i>Thermococcus</i> 4557	NC_015865.1
<i>Thermococcus</i> AM4	NC_016051.1
<i>Thermococcus barophilus</i> MP	NC_014804.1; NC_015471.1
<i>Thermococcus gammatolerans</i> EJ3	NC_012804.1
<i>Thermococcus kodakarensis</i> KOD1	NC_006624.1
<i>Thermococcus onnurineus</i> NA1	NC_011529.1
<i>Thermococcus sibiricus</i> MM 739	NC_012883.1
<i>Thermocrinis albus</i> DSM 14484	NC_013894.1
<i>Thermodesulfatator indicus</i> DSM 15286	NC_015681.1
<i>Thermodesulfobacterium</i> OPB45	NC_015682.1
<i>Thermodesulfobium narugense</i> DSM 14796	NC_015499.1
<i>Thermodesulfobivibrio yellowstonii</i> DSM 11347	NC_011296.1
<i>Thermofilum pendens</i> Hrk 5	NC_008696.1; NC_008698.1
<i>Thermomicrobium roseum</i> DSM 5159	NC_011959.1; NC_011961.1
<i>Thermomonospora curvata</i> DSM 43183	NC_013510.1
<i>Thermoplasma acidophilum</i> DSM 1728	NC_002578.1
<i>Thermoplasma volcanium</i> GSS1	NC_002689.2
<i>Thermoproteus neutrophilus</i> V24Sta	NC_010525.1
<i>Thermoproteus tenax</i> Kra 1	NC_016070.1
<i>Thermoproteus uzoniensis</i> 768 20	NC_015315.1
<i>Thermosediminibacter oceani</i> DSM 16646	NC_014377.1
<i>Thermosipho africanus</i> TCF52B	NC_011653.1
<i>Thermosipho melanesiensis</i> BI429	NC_009616.1
<i>Thermosphaera aggregans</i> DSM 11486	NC_014160.1
<i>Thermosynechococcus elongatus</i> BP 1	NC_004113.1
<i>Thermotoga lettingae</i> TMO	NC_009828.1
<i>Thermotoga maritima</i> MSB8	NC_000853.1
<i>Thermotoga naphthophila</i> RKU 10	NC_013642.1
<i>Thermotoga neapolitana</i> DSM 4359	NC_011978.1
<i>Thermotoga petrophila</i> RKU 1	NC_009486.1
<i>Thermotoga</i> RQ2	NC_010483.1
<i>Thermotoga thermarum</i> DSM 5069	NC_015707.1
<i>Thermovibrio ammonificans</i> HB 1	NC_014917.1; NC_014926.1
<i>Thermovirga tienii</i> DSM 17291	NC_016148.1; NC_016149.1

<i>Thermus scotoductus</i> SA 01	NC_014974.1; NC_014975.1
<i>Thermus thermophilus</i> HB27	NC_005835.1; NC_005838.1
<i>Thermus thermophilus</i> HB8	NC_006461.1; NC_006462.1; NC_006463.1
<i>Thioalkalimicrobium cyclicum</i> ALM1	NC_015581.1
<i>Thioalkalivibrio K90mix</i>	NC_013889.1; NC_013930.1
<i>Thioalkalivibrio sulfidophilus</i> HL EbGr7	NC_011901.1
<i>Thiobacillus denitrificans</i> ATCC 25259	NC_007404.1
<i>Thiomicrospira crunogena</i> XCL 2	NC_007520.2
<i>Thiomonas intermedia</i> K12	NC_014153.1; NC_014154.1; NC_014155.1
<i>Tolumonas auensis</i> DSM 9187	NC_012691.1
<i>Treponema azotonutricium</i> ZAS 9	NC_015577.1
<i>Treponema brennaborense</i> DSM 12168	NC_015500.1
<i>Treponema denticola</i> ATCC 35405	NC_002967.9
<i>Treponema pallidum</i> Nichols	NC_000919.1
<i>Treponema pallidum</i> SS14	NC_010741.1
<i>Treponema paraluiscluniculi</i> Cuniculi A	NC_015714.1
<i>Treponema primitia</i> ZAS 2	NC_015578.1
<i>Treponema succinifaciens</i> DSM 2489	NC_015385.1; NC_015386.1
<i>Trichodesmium erythraeum</i> IMS101	NC_008312.1
<i>Tropheryma whipplei</i> TW08 27	NC_004551.1
<i>Tropheryma whipplei</i> Twist	NC_004572.3
<i>Truepera radiovictrix</i> DSM 17093	NC_014221.1
<i>Tsukamurella paurometabola</i> DSM 20162	NC_014158.1; NC_014159.1
uncultured methanogenic archaeon RC 1	NC_009464.1
uncultured Termite group 1 bacterium phylotype Rs D17	NS_000191.1; NS_000192.1; NS_000193.1; NS_000194.1
<i>Ureaplasma parvum</i> serovar 3 ATCC 27815	NC_010503.1
<i>Ureaplasma parvum</i> serovar 3 ATCC 700970	NC_002162.1
<i>Ureaplasma urealyticum</i> serovar 10 ATCC 33699	NC_011374.1
<i>Variovorax paradoxus</i> EPS	NC_014931.1
<i>Variovorax paradoxus</i> S110	NC_012791.1; NC_012792.1
<i>Veillonella parvula</i> DSM 2008	NC_013520.1
<i>Verminephrobacter eiseniae</i> EF01 2	NC_008771.1; NC_008786.1
<i>Verrucospora maris</i> AB 18 032	NC_015409.1; NC_015434.1
<i>Vibrio anguillarum</i> 775	NC_015633.1; NC_015637.1
<i>Vibrio cholerae</i> M66 2	NC_012578.1; NC_012580.1
<i>Vibrio cholerae</i> MJ 1236	NC_012667.1; NC_012668.1
<i>Vibrio cholerae</i> O1 2010EL 1786	NC_016445.1; NC_016446.1
<i>Vibrio cholerae</i> O1 biovar El Tor N16961	NC_002505.1; NC_002506.1
<i>Vibrio cholerae</i> O395	NC_009456.1; NC_009457.1
<i>Vibrio</i> Ex25	NC_013456.1; NC_013457.1
<i>Vibrio fischeri</i> ES114	NC_006840.2; NC_006841.2; NC_006842.1
<i>Vibrio fischeri</i> MJ11	NC_011184.1; NC_011185.1; NC_011186.1
<i>Vibrio harveyi</i> ATCC BAA 1116	NC_009777.1; NC_009783.1; NC_009784.1
<i>Vibrio parahaemolyticus</i> RIMD 2210633	NC_004603.1; NC_004605.1
<i>Vibrio splendidus</i> LGP32	NC_011744.2; NC_011753.2
<i>Vibrio vulnificus</i> CMCP6	NC_004459.3; NC_004460.2
<i>Vibrio vulnificus</i> MO6 24 O	NC_014965.1; NC_014966.1
<i>Vibrio vulnificus</i> YJ016	NC_005128.1; NC_005139.1; NC_005140.1
<i>Vulcanisaeta distributa</i> DSM 14429	NC_014537.1
<i>Vulcanisaeta moutnovskia</i> 768 28	NC_015151.1
<i>Waddlia chondrophila</i> WSU 86 1044	NC_014225.1; NC_014226.1
<i>Weeksella virosa</i> DSM 16922	NC_015144.1
<i>Weissella koreensis</i> KACC 15510	NC_015756.1; NC_015759.1
<i>Wigglesworthia glossinidia</i> endosymbiont of <i>Glossina brevipalpis</i>	NC_003425.1; NC_004344.2
<i>Wolbachia</i> endosymbiont of <i>Culex quinquefasciatus</i> Pel	NC_010981.1
<i>Wolbachia</i> endosymbiont of <i>Drosophila melanogaster</i>	NC_002978.6
<i>Wolbachia</i> endosymbiont TRS of <i>Brugia malayi</i>	NC_006833.1

<i>Wolbachia wRi</i>	NC_012416.1
<i>Wolinella succinogenes DSM 1740</i>	NC_005090.1
<i>Xanthobacter autotrophicus Py2</i>	NC_009717.1; NC_009720.1
<i>Xanthomonas albilineans GPE PC73</i>	NC_013722.1
<i>Xanthomonas axonopodis citri 306</i>	NC_003919.1; NC_003921.3; NC_003922.1
<i>Xanthomonas axonopodis citrumelo F1</i>	NC_016010.1
<i>Xanthomonas campestris 8004</i>	NC_007086.1
<i>Xanthomonas campestris ATCC 33913</i>	NC_003902.1
<i>Xanthomonas campestris B100</i>	NC_010688.1
<i>Xanthomonas campestris vesicatoria 85 10</i>	NC_007504.1; NC_007505.1; NC_007506.1; NC_007507.1; NC_007508.1
<i>Xanthomonas oryzae KACC10331</i>	NC_006834.1
<i>Xanthomonas oryzae MAFF 311018</i>	NC_007705.1
<i>Xanthomonas oryzae PXO99A</i>	NC_010717.1
<i>Xenorhabdus bovienii SS 2004</i>	NC_013892.1
<i>Xenorhabdus nematophila ATCC 19061</i>	NC_014170.1; NC_014228.1
<i>Xylanimonas cellulosilytica DSM 15894</i>	NC_013530.1; NC_013531.1
<i>Xylella fastidiosa 9a5c</i>	NC_002488.3; NC_002489.3; NC_002490.1
<i>Xylella fastidiosa M12</i>	NC_010513.1
<i>Xylella fastidiosa M23</i>	NC_010577.1; NC_010579.1
<i>Xylella fastidiosa Temecula1</i>	NC_004554.1; NC_004556.1
<i>Yersinia enterocolitica 8081</i>	NC_008791.1; NC_008800.1
<i>Yersinia enterocolitica paleartica 105 5R r</i>	NC_015224.1; NC_015475.1
<i>Yersinia pestis Angola</i>	NC_010157.1; NC_010158.1; NC_010159.1
<i>Yersinia pestis Antiqua</i>	NC_008120.1; NC_008121.1; NC_008122.1; NC_008150.1
<i>Yersinia pestis biovar Microtus 91001</i>	NC_005810.1; NC_005813.1; NC_005814.1; NC_005815.1; NC_005816.1
<i>Yersinia pestis CO92</i>	NC_003131.1; NC_003132.1; NC_003134.1; NC_003143.1
<i>Yersinia pestis KIM 10</i>	NC_004088.1; NC_004838.1
<i>Yersinia pestis Nepal516</i>	NC_008118.1; NC_008119.1; NC_008149.1
<i>Yersinia pestis Pestoides F</i>	NC_009377.1; NC_009378.1; NC_009381.1
<i>Yersinia pestis Z176003</i>	NC_014017.1; NC_014022.1; NC_014027.1; NC_014029.1
<i>Yersinia pseudotuberculosis IP 31758</i>	NC_009704.1; NC_009705.1; NC_009708.1
<i>Yersinia pseudotuberculosis IP 32953</i>	NC_006153.2; NC_006154.1; NC_006155.1
<i>Yersinia pseudotuberculosis PB1</i>	NC_010634.1; NC_010635.1
<i>Yersinia pseudotuberculosis YPIII</i>	NC_010465.1
<i>Zobellia galactanivorans</i>	NC_015844.1
<i>Zunongwangia profunda SM A87</i>	NC_014041.1
<i>Zymomonas mobilis NCIMB 11163</i>	NC_013355.1; NC_013356.1; NC_013357.1; NC_013358.1
<i>Zymomonas mobilis pomaceae ATCC 29192</i>	NC_015709.1; NC_015715.1; NC_015716.1
<i>Zymomonas mobilis ZM4</i>	NC_006526.2
<i>Abiotrophia defectiva ATCC 49176</i>	NZ_GG665858.1
<i>Acaryochloris CCME5 5410</i>	NZ_AFEJ01000001.1
<i>Acetivibrio cellulolyticus CD2</i>	NZ_AEDB02000001.1
<i>Acetobacteraceae bacterium AT 5844</i>	NZ_AGEZ01000001.1
<i>Acetobacter aceti NBRC 14818</i>	NZ_BABW01000001.1
<i>Acetobacter pomorum DM001</i>	NZ_AEUP01000001.1
<i>Acetobacter tropicalis NBRC 101654</i>	NZ_BABS01000001.1
<i>Acetonema longum DSM 6540</i>	NZ_AFGF01000001.1
<i>Achromobacter piechaudii ATCC 43553</i>	NZ_GG770409.1
<i>Achromobacter SY8</i>	NZ_AGUF01000001.1
<i>Acidaminococcus D21</i>	NZ_ACGB01000001.1
<i>Acidiphilium PM</i>	NZ_AFPR01000001.1
<i>Acidithiobacillus caldus ATCC 51756</i>	NZ_ACVD01000001.1
<i>Acidovorax delafieldii 2AN</i>	NZ_ACQT01000001.1
<i>Acidovorax NO 1</i>	NZ_AGTS01000001.1
<i>Acidovorax radialis N35</i>	NZ_AFBG01000001.1
<i>Aciduliprofundum boonei T469</i>	NZ_DS990515.1
<i>Acinetobacter 6013113</i>	NZ_GL891496.1

<i>Acinetobacter 6013150</i>	NZ_GL891614.1
<i>Acinetobacter 6014059</i>	NZ_GL891816.1
<i>Acinetobacter ATCC 27244</i>	NZ_GG665949.1
<i>Acinetobacter baumannii AB056</i>	NZ_ADGZ01000001.1
<i>Acinetobacter baumannii AB058</i>	NZ_ADHA01000001.1
<i>Acinetobacter baumannii AB059</i>	NZ_ADHB01000001.1
<i>Acinetobacter baumannii AB900</i>	NZ_ABXK01000001.1
<i>Acinetobacter baumannii ATCC 19606</i>	NZ_GG704572.1
<i>Acinetobacter calcoaceticus RUH2202</i>	NZ_GG704949.1
<i>Acinetobacter haemolyticus ATCC 19194</i>	NZ_GG770435.1
<i>Acinetobacter johnsonii SH046</i>	NZ_GG704964.1
<i>Acinetobacter junii SH205</i>	NZ_GG705011.1
<i>Acinetobacter lwoffii SH145</i>	NZ_GG705055.1
<i>Acinetobacter NBRC 100985</i>	NZ_BAEB01000001.1
<i>Acinetobacter P8 3 8</i>	NZ_AFIE01000001.1
<i>Acinetobacter radioresistens SH164</i>	NZ_GG705131.1
<i>Acinetobacter radioresistens SK82</i>	NZ_ACVR01000001.1
<i>Acinetobacter RUH2624</i>	NZ_GG704495.1
<i>Acinetobacter SH024</i>	NZ_GG753600.1
<i>Actinobacillus minor 202</i>	NZ_ACF01000001.1
<i>Actinobacillus minor NM305</i>	NZ_ACQL01000001.1
<i>Actinobacillus pleuropneumoniae serovar 10 D13039</i>	NZ_ADOJ01000001.1
<i>Actinobacillus pleuropneumoniae serovar 11 56153</i>	NZ_ADOK01000001.1
<i>Actinobacillus pleuropneumoniae serovar 12 1096</i>	NZ_ADOL01000001.1
<i>Actinobacillus pleuropneumoniae serovar 13 N273</i>	NZ_ADOM01000001.1
<i>Actinobacillus pleuropneumoniae serovar 1 4074</i>	NZ_ADOD01000001.1
<i>Actinobacillus pleuropneumoniae serovar 1 4074</i>	NZ_AACK01000001.1
<i>Actinobacillus pleuropneumoniae serovar 2 4226</i>	NZ_ADXN01000001.1
<i>Actinobacillus pleuropneumoniae serovar 2 S1536</i>	NZ_ADOE01000001.1
<i>Actinobacillus pleuropneumoniae serovar 4 M62</i>	NZ_ADOF01000001.1
<i>Actinobacillus pleuropneumoniae serovar 6 Femo</i>	NZ_ADOG01000001.1
<i>Actinobacillus pleuropneumoniae serovar 6 Femo</i>	NZ_ADXO01000001.1
<i>Actinobacillus pleuropneumoniae serovar 9 CVJ13261</i>	NZ_ADOI01000001.1
<i>Actinobacillus ureae ATCC 25976</i>	NZ_GL831080.1
<i>Actinomyces coleocanis DSM 15436</i>	NZ_DS999539.1
<i>Actinomyces graevenitzi C83</i>	NZ_JH470338.1
<i>Actinomyces odontolyticus ATCC 17982</i>	NZ_DS264585.1
<i>Actinomyces odontolyticus F0309</i>	NZ_GG753639.1
<i>Actinomyces oral tazon 170 F0386</i>	NZ_GL882504.1
<i>Actinomyces oral tazon 171 F0337</i>	NZ_GL637675.1
<i>Actinomyces oral tazon 175 F0384</i>	NZ_AFUR01000001.1
<i>Actinomyces oral tazon 178 F0338</i>	NZ_GL636934.1
<i>Actinomyces oral tazon 180 F0310</i>	NZ_GL622194.1
<i>Actinomyces oral tazon 448 F0400</i>	NZ_GL985606.1
<i>Actinomyces oral tazon 848 F0332</i>	NZ_GG703879.1
<i>Actinomyces oral tazon 849 F0330</i>	NZ_JH470348.1
<i>Actinomyces oris K20</i>	NZ_BABV01000001.1
<i>Actinomyces urogenitalis DSM 15434</i>	NZ_DS999574.1
<i>Actinomyces viscosus C505</i>	NZ_GL877174.1
<i>Advenella kashmirensis WT001</i>	NZ_AFAQ01000001.1
<i>Aerococcus viridans ATCC 11563</i>	NZ_ADNT01000001.1
<i>Aeromicrobium marinum DSM 15272</i>	NZ_CM001024.1
<i>Aeromonas caviae Ae398</i>	NZ_CACP01000001.1
<i>Afpia 1NLS2</i>	NZ_ADVZ01000001.1
<i>Aggregatibacter actinomycetemcomitans D7S 1</i>	NZ_CM000912.1
<i>Aggregatibacter segnis ATCC 33393</i>	NZ_GL622200.1
<i>Agrobacterium ATCC 31749</i>	NZ_AECL01000001.1

<i>Ahrensia R2A130</i>	NZ_AEEB01000001.1
<i>Alcanivorax DG881</i>	NZ_DS989915.1
<i>Algoriphagus PR1</i>	NZ_CM001023.1
<i>Alicyclobacillus acidocaldarius LA41</i>	NZ_ACCS01000001.1
<i>Alistipes HGB5</i>	NZ_AENZ01000001.1
<i>Alistipes indistinctus YIT 12060</i>	NZ_JH370371.1
<i>Alistipes putredinis DSM 17216</i>	NZ_DS499570.1
<i>alpha proteobacterium BAL199</i>	NZ_ABHC01000001.1
<i>alpha proteobacterium HIMB114</i>	NZ_GG704918.1
<i>Alteromonadales bacterium TW 7</i>	NZ_AAVS01000001.1
<i>Alteromonas macleodii ATCC 27126</i>	NZ_ABQB01000001.1
<i>Aminomonas paucivorans DSM 12260</i>	NZ_CM001022.1
<i>Anaerobaculum hydrogeniformans ATCC BAA 1850</i>	NZ_GG705294.1
<i>Anaerococcus hydrogenalis ACS 025 V Sch4</i>	NZ_AEXN01000001.1
<i>Anaerococcus hydrogenalis DSM 7454</i>	NZ_ABXA01000001.1
<i>Anaerococcus lactolyticus ATCC 51172</i>	NZ_GG666044.1
<i>Anaerococcus tetradius ATCC 35098</i>	NZ_GG666295.1
<i>Anaerococcus vaginalis ATCC 51170</i>	NZ_GG700527.1
<i>Anaerofustis stercorihominis DSM 17244</i>	NZ_DS560015.1
<i>Anaeroglobus geminatus F0357</i>	NZ_JH417560.1
<i>Anaerophaga thermohalophila DSM 12881</i>	NZ_AEWI01000001.1
<i>Anaerostipes 3 2 56FAA</i>	NZ_GL629687.1
<i>Anaerostipes caccae DSM 14662</i>	NZ_DS499719.1
<i>Anaerotruncus colihominis DSM 17241</i>	NZ_DS544167.1
<i>Anaplasma marginale Mississippi</i>	NZ_ABOP01000001.1
<i>Anaplasma marginale Puerto Rico</i>	NZ_ABOQ01000001.1
<i>Anaplasma marginale Virginia</i>	NZ_ABOR01000001.1
<i>Arcobacter butzleri JV22</i>	NZ_GL622205.1
<i>Arthrobacter globiformis NBRC 12137</i>	NZ_BAEG01000001.1
<i>Arthrospira maxima CS 328</i>	NZ_ABYK01000001.1
<i>Arthrospira platensis Paraca</i>	NZ_ACSK01000001.1
<i>Asticcacaulis biprosthecum C19</i>	NZ_GL883076.1
<i>Atopobium rimae ATCC 49626</i>	NZ_ACFE01000001.1
<i>Atopobium vaginae DSM 15829</i>	NZ_ADNA01000001.1
<i>Atopobium vaginae DSM 15829</i>	NZ_ACGK02000001.1
<i>Atopobium vaginae PB189 T1 4</i>	NZ_AEDQ01000001.1
<i>Aurantimonas manganoxydans SI85 9A1</i>	NZ_CH672387.1
<i>Azospirillum amazonense Y2</i>	NZ_AFBX01000001.1
<i>Bacillus 2 A 57 CT2</i>	NZ_GL635750.1
<i>Bacillus 7 6 55CFAA CT2</i>	NZ_JH414708.1
<i>Bacillus anthracis A0174</i>	NZ_ABLT01000001.1
<i>Bacillus anthracis A0193</i>	NZ_ABKf01000001.1
<i>Bacillus anthracis A0389</i>	NZ_ABLB01000001.1
<i>Bacillus anthracis A0442</i>	NZ_ABKG01000001.1
<i>Bacillus anthracis A0465</i>	NZ_ABLH01000001.1
<i>Bacillus anthracis A0488</i>	NZ_ABJC01000001.2
<i>Bacillus anthracis A1055</i>	NZ_AAEO01000001.3
<i>Bacillus anthracis A2012</i>	NZ_AAAC02000001.1
<i>Bacillus anthracis Australia 94</i>	NZ_AAES01000001.1
<i>Bacillus anthracis CNEVA 9066</i>	NZ_AAEN01000001.1
<i>Bacillus anthracis Kruger B</i>	NZ_AAEQ01000001.1
<i>Bacillus anthracis Tsiankovskii I</i>	NZ_ABDN02000001.1
<i>Bacillus anthracis Vollum</i>	NZ_AAEP01000001.1
<i>Bacillus anthracis Western North America USA6153</i>	NZ_AAER01000001.1
<i>Bacillus B14905</i>	NZ_AAXV01000001.1
<i>Bacillus BT1B CT2</i>	NZ_GL635726.1
<i>Bacillus cereus 03BB108</i>	NZ_ABDM02000001.1

<i>Bacillus cereus</i> 172560W	NZ_CM000717.1
<i>Bacillus cereus</i> 95 8201	NZ_CM000727.1
<i>Bacillus cereus</i> AH1134	NZ_ABDA02000001.1
<i>Bacillus cereus</i> AH1271	NZ_CM000739.1
<i>Bacillus cereus</i> AH1272	NZ_CM000740.1
<i>Bacillus cereus</i> AH1273	NZ_CM000741.1
<i>Bacillus cereus</i> AH603	NZ_CM000737.1
<i>Bacillus cereus</i> AH621	NZ_CM000719.1
<i>Bacillus cereus</i> AH676	NZ_CM000738.1
<i>Bacillus cereus</i> ATCC 10876	NZ_CM000715.1
<i>Bacillus cereus</i> ATCC 4342	NZ_CM000721.1
<i>Bacillus cereus</i> BDRD Cer4	NZ_CM000726.1
<i>Bacillus cereus</i> BDRD ST196	NZ_CM000725.1
<i>Bacillus cereus</i> BDRD ST24	NZ_CM000723.1
<i>Bacillus cereus</i> BDRD ST26	NZ_CM000724.1
<i>Bacillus cereus</i> BGSC 6E1	NZ_CM000716.1
<i>Bacillus cereus</i> F65185	NZ_CM000736.1
<i>Bacillus cereus</i> G9241	NZ_AA EK01000001.1
<i>Bacillus cereus</i> H3081 97	NZ_ABDL02000001.1
<i>Bacillus cereus</i> m1293	NZ_CM000714.1
<i>Bacillus cereus</i> m1550	NZ_CM000722.1
<i>Bacillus cereus</i> MM3	NZ_CM000718.1
<i>Bacillus cereus</i> NVH0597 99	NZ_ABDK02000001.1
<i>Bacillus cereus</i> R309803	NZ_CM000720.1
<i>Bacillus cereus</i> Rock1 15	NZ_CM000729.1
<i>Bacillus cereus</i> Rock1 3	NZ_CM000728.1
<i>Bacillus cereus</i> Rock3 28	NZ_CM000730.1
<i>Bacillus cereus</i> Rock3 29	NZ_CM000731.1
<i>Bacillus cereus</i> Rock3 42	NZ_CM000732.1
<i>Bacillus cereus</i> Rock3 44	NZ_CM000733.1
<i>Bacillus cereus</i> Rock4 18	NZ_CM000735.1
<i>Bacillus cereus</i> Rock4 2	NZ_CM000734.1
<i>Bacillus cereus</i> SJ1	NZ_ADFM01000001.1
<i>Bacillus cereus</i> W	NZ_ABCZ02000001.1
<i>Bacillus coahuilensis</i> m4 4	NZ_ABFU01000001.1
<i>Bacillus</i> m3 13	NZ_ACP C01000001.1
<i>Bacillus mycoides</i> DSM 2048	NZ_CM000742.1
<i>Bacillus mycoides</i> Rock1 4	NZ_CM000743.1
<i>Bacillus mycoides</i> Rock3 17	NZ_CM000744.1
<i>Bacillus NRRL B 14911</i>	NZ_CH672355.1
<i>Bacillus pseudomycoides</i> DSM 12442	NZ_CM000745.1
<i>Bacillus pumilus</i> ATCC 7061	NZ_ABRX01000001.1
<i>Bacillus</i> SG 1	NZ_ABCF01000001.1
<i>Bacillus smithii</i> 7 3 47FAA	NZ_JH414738.1
<i>Bacillus subtilis</i> JH642	NZ_CM000489.1
<i>Bacillus subtilis</i> NCIB 3610	NZ_CM000488.1
<i>Bacillus subtilis</i> SMY	NZ_CM000490.1
<i>Bacillus subtilis</i> spizizenii ATCC 6633	NZ_ADGS01000001.1
<i>Bacillus thuringiensis</i> Bt407	NZ_CM000747.1
<i>Bacillus thuringiensis</i> IBL 200	NZ_CM000758.1
<i>Bacillus thuringiensis</i> IBL 4222	NZ_CM000759.1
<i>Bacillus thuringiensis</i> serovar andalousiensis BGSC 4AW1	NZ_CM000754.1
<i>Bacillus thuringiensis</i> serovar berliner ATCC 10792	NZ_CM000753.1
<i>Bacillus thuringiensis</i> serovar huazhongensis BGSC 4BD1	NZ_CM000756.1
<i>Bacillus thuringiensis</i> serovar israelensis ATCC 35646	NZ_AA JM01000001.1
<i>Bacillus thuringiensis</i> serovar kurstaki T03a001	NZ_CM000751.1
<i>Bacillus thuringiensis</i> serovar monterrey BGSC 4AJ1	NZ_CM000752.1

<i>Beggiatoa SS</i>	NZ_ABBY01000001.1
<i>Bermanella marisrubri</i>	NZ_CH724113.1
<i>beta proteobacterium KB13</i>	NZ_DS995299.1
<i>Bifidobacterium 12 1 47BFAA</i>	NZ_GL622625.1
<i>Bifidobacterium adolescentis L2 32</i>	NZ_DS264420.1
<i>Bifidobacterium angulatum DSM 20098</i>	NZ_GG663535.1
<i>Bifidobacterium animalis lactis HN019</i>	NZ_ABO701000001.1
<i>Bifidobacterium bifidum NCIMB 41171</i>	NZ_DS990229.1
<i>Bifidobacterium breve DSM 20213</i>	NZ_GG729830.1
<i>Bifidobacterium catenulatum DSM 16992</i>	NZ_ABXY01000001.1
<i>Bifidobacterium dentium ATCC 27678</i>	NZ_ABIX02000001.1
<i>Bifidobacterium dentium ATCC 27679</i>	NZ_GL405225.1
<i>Bifidobacterium dentium JCVIHMP022</i>	NZ_AEHJ01000001.1
<i>Bifidobacterium gallicum DSM 20093</i>	NZ_ABXB03000001.1
<i>Bifidobacterium longum DJO10A</i>	NZ_AABM02000001.1
<i>Bifidobacterium longum infantis ATCC 55813</i>	NZ_GG666849.1
<i>Bifidobacterium longum infantis CCUG 52486</i>	NZ_DS990238.1
<i>Bifidobacterium pseudocatenulatum DSM 20438</i>	NZ_ABXX02000001.1
<i>Bilophila 4 1 30</i>	NZ_JH114231.1
<i>Bilophila wadsworthia 3 1 6</i>	NZ_GL622724.1
<i>Bizionia argentinensis JUB59</i>	NZ_AFXZ01000001.1
<i>Blastopirellula marina DSM 3645</i>	NZ_CH672376.1
<i>Blautia hansenii DSM 20583</i>	NZ_GG698588.1
<i>Blautia hydrogenotrophica DSM 10507</i>	NZ_GG657678.1
<i>Borrelia afzelii ACA 1</i>	NZ_ABCU02000001.1
<i>Borrelia burgdorferi 118a</i>	NZ_ABGI02000001.1
<i>Borrelia burgdorferi 156a</i>	NZ_ABCV02000001.1
<i>Borrelia burgdorferi 29805</i>	NZ_ABJX02000001.1
<i>Borrelia burgdorferi 64b</i>	NZ_ABKA02000001.1
<i>Borrelia burgdorferi 72a</i>	NZ_ABGJ02000001.1
<i>Borrelia burgdorferi 80a</i>	NZ_ABJU01000001.1
<i>Borrelia burgdorferi 94a</i>	NZ_ABGK02000001.1
<i>Borrelia burgdorferi Bol26</i>	NZ_ABCW02000001.1
<i>Borrelia burgdorferi CA 11 2a</i>	NZ_ABJY02000001.1
<i>Borrelia burgdorferi WI91 23</i>	NZ_ABJW02000001.1
<i>Borrelia garinii Far04</i>	NZ_ABPZ02000001.1
<i>Borrelia garinii PBr</i>	NZ_ABJV02000001.1
<i>Borrelia spielmanii A14S</i>	NZ_ABBK02000001.1
<i>Borrelia SV1</i>	NZ_ABJZ02000001.1
<i>Borrelia valaisiana VS116</i>	NZ_ABCY02000001.1
<i>Bradyrhizobiaceae bacterium SG 6C</i>	NZ_CM001195.1
<i>Bradyrhizobium ORS 285</i>	NZ_CAFH01000001.1
<i>Bradyrhizobium ORS 375</i>	NZ_CAFI01000001.1
<i>Bradyrhizobium STM 3843</i>	NZ_CAFK01000001.1
<i>Bradyrhizobium</i>	NZ_CAFJ01000001.1
<i>Brenneria EniD312</i>	NZ_CM001230.1
<i>Brevibacillus laterosporus LMG 15441</i>	NZ_AFRV01000001.1
<i>Brevibacterium linens BL2</i>	NZ_AAGP01000001.1
<i>Brevibacterium mcbrellneri ATCC 49030</i>	NZ_ADNU01000001.1
<i>Brevundimonas BAL3</i>	NZ_DS989898.1
<i>Brevundimonas diminuta ATCC 11568</i>	NZ_GL883082.1
<i>Brucella 83 13</i>	NZ_DS999649.1
<i>Brucella abortus 2308 A</i>	NZ_ACOR01000001.1
<i>Brucella abortus bv 2 86 8 59</i>	NZ_DS999896.1
<i>Brucella abortus bv 3 Tulya</i>	NZ_DS999883.1
<i>Brucella abortus bv 4 292</i>	NZ_DS999871.1
<i>Brucella abortus bv 5 B3196</i>	NZ_GG774507.1

<i>Brucella abortus</i> bv 6 870	NZ_DS999858.1
<i>Brucella abortus</i> bv 9 C68	NZ_EQ999630.1
<i>Brucella abortus</i> NCTC 8038	NZ_GG703762.1
<i>Brucella</i> BO1	NZ_ADEZ01000001.1
<i>Brucella</i> BO2	NZ_ADFA01000001.1
<i>Brucella ceti</i> B1 94	NZ_EQ999616.1
<i>Brucella ceti</i> Cudo	NZ_ACJD01000001.1
<i>Brucella ceti</i> M13 05 1	NZ_DS999686.1
<i>Brucella ceti</i> M490 95 1	NZ_EQ999599.1
<i>Brucella ceti</i> M644 93 1	NZ_DS999669.1
<i>Brucella</i> F5 99	NZ_GG663471.1
<i>Brucella mclitensis</i> bv 1 16M	NZ_GG703778.1
<i>Brucella mclitensis</i> bv 1 Rev 1	NZ_EQ999549.1
<i>Brucella mclitensis</i> bv 2 63 9	NZ_ACEM01000001.1
<i>Brucella mclitensis</i> bv 3 Ether	NZ_EQ999586.1
<i>Brucella neotomae</i> 5K33	NZ_EQ999575.1
<i>Brucella</i> NF 2653	NZ_ADFB01000001.1
<i>Brucella</i> NVSL 07 0026	NZ_GG770496.1
<i>Brucella pinnipedialis</i> B2 94	NZ_DS999839.1
<i>Brucella pinnipedialis</i> M163 99 10	NZ_DS999750.1
<i>Brucella pinnipedialis</i> M292 94 1	NZ_EQ999534.1
<i>Brucella suis</i> bv 3 686	NZ_DS999727.1
<i>Brucella suis</i> bv 4 40	NZ_GG703793.1
<i>Brucella suis</i> bv 5 513	NZ_DS999708.1
<i>Bryantella formatexigens</i> DSM 14469	NZ_ACCL02000001.1
<i>Buchnera aphidicola</i> LSR1 Acyrthosiphon pisum	NZ_ACFK01000001.1
<i>Bulleidia exstructa</i> W1219	NZ_ADFR01000001.1
<i>Burkholderia ambifaria</i> IOP40 10	NZ_ABLC01000001.1
<i>Burkholderia ambifaria</i> MEX 5	NZ_ABLK01000001.1
<i>Burkholderia cenocepacia</i> PC184	NZ_CH482377.1
<i>Burkholderia</i> Ch1 1	NZ_ADNR01000001.1
<i>Burkholderia dolosa</i> AUO158	NZ_CH482380.1
<i>Burkholderia graminis</i> C4D1M	NZ_ABLD01000001.1
<i>Burkholderia</i> H160	NZ_ABYL01000001.1
<i>Burkholderiales</i> bacterium 1 1 47	NZ_GL383992.1
<i>Burkholderia mallei</i> 2002721280	NZ_CH899687.1
<i>Burkholderia mallei</i> ATCC 10399	NZ_CH899678.1
<i>Burkholderia mallei</i> FMH	NZ_DS264094.1
<i>Burkholderia mallei</i> GB8 horse 4	NZ_AAHO01000001.1
<i>Burkholderia mallei</i> JHU	NZ_DS264106.1
<i>Burkholderia mallei</i> PRL 20	NZ_AAZP01000001.1
<i>Burkholderia multivorans</i> CGD1	NZ_ACFB01000001.1
<i>Burkholderia multivorans</i> CGD2M	NZ_ACFD01000001.1
<i>Burkholderia multivorans</i> CGD2	NZ_ACFC01000001.1
<i>Burkholderia oklahomensis</i> C6786	NZ_ABBG01000001.1
<i>Burkholderia oklahomensis</i> EO147	NZ_ABBF01000001.1
<i>Burkholderia pseudomallei</i> 1106b	NZ_CM000774.1
<i>Burkholderia pseudomallei</i> 112	NZ_ABBP01000001.1
<i>Burkholderia pseudomallei</i> 14	NZ_ABBJ01000001.1
<i>Burkholderia pseudomallei</i> 1655	NZ_CH899711.1
<i>Burkholderia pseudomallei</i> 1710a	NZ_CM000832.1
<i>Burkholderia pseudomallei</i> 305	NZ_AAYX01000001.1
<i>Burkholderia pseudomallei</i> 406e	NZ_CH899724.1
<i>Burkholderia pseudomallei</i> 576	NZ_ACCE01000001.1
<i>Burkholderia pseudomallei</i> 7894	NZ_ABBO01000001.1
<i>Burkholderia pseudomallei</i> 91	NZ_ABBK01000001.1
<i>Burkholderia pseudomallei</i> 9	NZ_ABBL01000001.1

<i>Burkholderia pseudomallei</i> B7210	NZ_ABBN01000001.1
<i>Burkholderia pseudomallei</i> BCC215	NZ_ABBR01000001.1
<i>Burkholderia pseudomallei</i> DM98	NZ_ABBI01000001.1
<i>Burkholderia pseudomallei</i> MSHR346	NZ_ACOJ01000001.1
<i>Burkholderia pseudomallei</i> NCTC 13177	NZ_ABBQ01000001.1
<i>Burkholderia pseudomallei</i> Pakistan 9	NZ_ACKA01000001.1
<i>Burkholderia pseudomallei</i> Pasteur 52237	NZ_CH899740.1
<i>Burkholderia pseudomallei</i> S13	NZ_CH899756.1
<i>Burkholderia thailandensis</i> Bt4	NZ_ABBH01000001.1
<i>Burkholderia thailandensis</i> E264	NZ_CM000438.1
<i>Burkholderia thailandensis</i> MSMB43	NZ_ABBM01000001.1
<i>Burkholderia thailandensis</i> TXDOH	NZ_ABBD01000001.1
<i>Burkholderia ubonensis</i> Bu	NZ_ABBE01000001.1
<i>Butyrivibrio crossotus</i> DSM 2876	NZ_GG663504.1
<i>Caldalkalibacillus thermarum</i> TA2 A1	NZ_AFCF01000001.1
<i>Caminibacter mediatlanticus</i> TB 2	NZ_ABCJ01000001.1
<i>Campylobacter</i> 10 1 50	NZ_JH414887.1
<i>Campylobacteriales bacterium</i> GD 1	NZ_DS995286.1
<i>Campylobacter coli</i> JV20	NZ_GL405235.1
<i>Campylobacter coli</i> RM2228	NZ_AAFLO1000001.1
<i>Campylobacter fetus</i> venerealis Azul 94	NZ_ACLG01000001.1
<i>Campylobacter gracilis</i> RM3268	NZ_ACYG01000001.1
<i>Campylobacter jejuni</i> 1336	NZ_CM000854.1
<i>Campylobacter jejuni</i> 260 94	NZ_AANK01000001.1
<i>Campylobacter jejuni</i> 414	NZ_CM000855.1
<i>Campylobacter jejuni</i> 81 176	NZ_AASL01000001.1
<i>Campylobacter jejuni</i> 84 25	NZ_AANT02000001.1
<i>Campylobacter jejuni</i> BH 01 0142	NZ_ABKD01000001.1
<i>Campylobacter jejuni</i> CF93 6	NZ_AANJ01000001.1
<i>Campylobacter jejuni</i> CG8421	NZ_ABGQ01000001.1
<i>Campylobacter jejuni</i> CG8486	NZ_AASY01000001.2
<i>Campylobacter jejuni</i> HB93 13	NZ_AANQ01000001.1
<i>Campylobacter rectus</i> RM3267	NZ_ACFU01000001.1
<i>Campylobacter showae</i> RM3277	NZ_ACVQ01000001.1
<i>Campylobacter upsaliensis</i> JV21	NZ_GL622227.1
<i>Campylobacter upsaliensis</i> RM3195	NZ_AAFJ01000001.1
candidate division TM7 genomosp GTL1	NZ_AAXS01000001.1
candidate division TM7 single cell isolate TM7a	
candidate division TM7 single cell isolate TM7b	NZ_ABBW01000001.1
candidate division TM7 single cell isolate TM7c	NZ_ABBX01000001.1
<i>Candidatus Burkholderia kirkii</i> UZHbot1	NZ_HE603793.1
<i>Candidatus Glomeribacter gigasporarum</i>	NZ_CAFB01000001.1
<i>Candidatus Haloredivivus</i> G17	NZ_AGNT01000001.1
<i>Candidatus Nitrosoarchaeum limnia</i> SFB1	NZ_CM001158.1
<i>Candidatus Odysella thessalonicensis</i> L13	NZ_AEWF01000001.1
<i>Candidatus Pelagibacter HTCC7211</i>	NZ_DS995298.1
<i>Candidatus Pelagibacter ubique</i> HTCC1002	NZ_CH724130.1
<i>Candidatus Poribacteria</i> WGA A3	NZ_ADFK01000001.1
<i>Candidatus Regiella insecticola</i> LSR1	NZ_CM000957.1
<i>Candidatus Sulcia muelleri</i> Hc Homalodisca coagulata	NZ_AANL01000001.1
<i>Capnocytophaga gingivalis</i> ATCC 33624	NZ_ACLQ01000001.1
<i>Capnocytophaga ochracea</i> F0287	NZ_GL573160.1
<i>Capnocytophaga oral</i> taxon 329 F0087	NZ_GL891383.1
<i>Capnocytophaga oral</i> taxon 338 F0234	NZ_GL872413.1
<i>Capnocytophaga sputigena</i> ATCC 33612	NZ_ABZV01000001.1
<i>Carbozydibrachium pacificum</i> DSM 12653	NZ_DS999065.1
<i>Cardiobacterium hominis</i> ATCC 15826	NZ_GG694025.1

<i>Cardiobacterium valvarum</i> F0432	NZ_JH417875.1
<i>Carnobacterium</i> AT7	NZ_ABHH01000001.1
<i>Catenibacterium mitsuokai</i> DSM 15897	NZ_ACCK01000001.1
<i>Catonella morbi</i> ATCC 51271	NZ_GG665854.1
<i>Centipeda periodontii</i> DSM 2778	NZ_GL892076.1
<i>Chlamydia muridarum</i> MopnTet14	NZ_ACUJ01000001.3
<i>Chlamydia muridarum</i> Nigg	NZ_ACOV01000001.1
<i>Chlamydia muridarum</i> Weiss	NZ_ACOW01000001.1
<i>Chlamydia trachomatis</i> 6276s	NZ_ABYE01000001.1
<i>Chlamydia trachomatis</i> 6276	NZ_ABYD01000001.1
<i>Chlamydia trachomatis</i> 70s	NZ_ABYG01000001.1
<i>Chlamydia trachomatis</i> 70	NZ_ABYF01000001.1
<i>Chlamydia trachomatis</i> D s 2923	NZ_ACFJ01000001.1
<i>Chlamydia trachomatis</i> L2tet1	NZ_ACUI01000001.1
<i>Chlamydomphila psittaci</i> Cal10	NZ_AEZD01000001.1
<i>Chlorobium ferrooxidans</i> DSM 13031	NZ_AASE01000001.1
<i>Chryseobacterium gleum</i> ATCC 35910	NZ_GL379781.1
<i>Chthoniobacter flavus</i> Ellin428	NZ_ABVL01000001.1
<i>Citreicella</i> SE45	NZ_GG704597.1
<i>Citrobacter</i> 30 2	NZ_GG657366.1
<i>Citrobacter freundii</i> 4 7 47CFAA	NZ_JH414876.1
<i>Citrobacter youngae</i> ATCC 29220	NZ_GG730299.1
<i>Citromicrobium bathyomarinum</i> JL354	NZ_ADAE01000001.1
<i>Citromicrobium</i> JLT1363	NZ_AEUE01000001.1
<i>Clostridiales bacterium</i> 1 7 47FAA	NZ_DS990260.1
<i>Clostridium</i> 7 2 43FAA	NZ_EQ999773.1
<i>Clostridium</i> 7 3 54FAA	NZ_JH376512.1
<i>Clostridium asparagiforme</i> DSM 15981	NZ_GG657586.1
<i>Clostridium bartlettii</i> DSM 16795	NZ_DS499552.1
<i>Clostridium bolteae</i> ATCC BAA 613	NZ_DS480659.1
<i>Clostridium botulinum</i> Bf	NZ_ABDP01000001.1
<i>Clostridium botulinum</i> C Eklund	NZ_ABDQ01000001.1
<i>Clostridium botulinum</i> D 1873	NZ_ACSJ01000001.1
<i>Clostridium botulinum</i> E1 BoNT E Beluga	NZ_ACSC01000001.1
<i>Clostridium botulinum</i> NCTC 2916	NZ_ABDO02000001.1
<i>Clostridium butyricum</i> 5521	NZ_ABDT01000001.2
<i>Clostridium butyricum</i> E4 BoNT E BL5262	NZ_ACOM01000001.1
<i>Clostridium carbozidivorans</i> P7	NZ_GG770677.1
<i>Clostridium carbozidivorans</i> P7	NZ_ACVI01000001.1
<i>Clostridium cellulovorans</i> 743B	NZ_BABR01000001.1
<i>Clostridium citroniae</i> WAL 17108	NZ_JH376420.1
<i>Clostridium clostridioforme</i> 2 1 49FAA	NZ_JH376870.1
<i>Clostridium</i> D5	NZ_GL870809.1
<i>Clostridium difficile</i> ATCC 43255	NZ_CM000604.1
<i>Clostridium difficile</i> CIP 107932	NZ_CM000659.1
<i>Clostridium difficile</i> NAP07	NZ_GG770744.1
<i>Clostridium difficile</i> NAP08	NZ_GG770710.1
<i>Clostridium difficile</i> QCD 23m63	NZ_CM000660.1
<i>Clostridium difficile</i> QCD 32g58	NZ_CM000287.1
<i>Clostridium difficile</i> QCD 37x79	NZ_CM000658.1
<i>Clostridium difficile</i> QCD 63q42	NZ_CM000637.1
<i>Clostridium difficile</i> QCD 66c26	NZ_CM000441.1
<i>Clostridium difficile</i> QCD 76w55	NZ_CM000661.1
<i>Clostridium difficile</i> QCD 97b34	NZ_CM000657.1
<i>Clostridium</i> DL VIII	NZ_CM001240.1
<i>Clostridium hathewayi</i> DSM 13479	NZ_GG667607.1
<i>Clostridium hathewayi</i> WAL 18680	NZ_JH379027.1

<i>Clostridium HGF2</i>	NZ_AENW01000001.1
<i>Clostridium hiranonis</i> DSM 13275	NZ_DS995354.1
<i>Clostridium hylemonae</i> DSM 15053	NZ_GG657759.1
<i>Clostridium</i> L2 50	NZ_DS480311.1
<i>Clostridium leptum</i> DSM 753	NZ_DS480331.1
<i>Clostridium</i> M62 1	NZ_GG730309.1
<i>Clostridium methylpentosum</i> DSM 5476	NZ_EQ973338.1
<i>Clostridium nexile</i> DSM 1787	NZ_DS995337.1
<i>Clostridium papyrosolvens</i> DSM 2782	NZ_ACXX02000001.1
<i>Clostridium perfringens</i> B ATCC 3626	NZ_ABDV01000001.1
<i>Clostridium perfringens</i> C JGS1495	NZ_ABDU01000001.2
<i>Clostridium perfringens</i> CPE F4969	NZ_ABDX01000001.1
<i>Clostridium perfringens</i> D JGS1721	NZ_ABOO01000001.1
<i>Clostridium perfringens</i> E JGS1987	NZ_ABDW01000001.1
<i>Clostridium perfringens</i> NCTC 8239	NZ_ABDY01000001.1
<i>Clostridium ramosum</i> DSM 1402	NZ_DS499649.1
<i>Clostridium scindens</i> ATCC 35704	NZ_DS499678.1
<i>Clostridium spiroforme</i> DSM 1552	NZ_DS562843.1
<i>Clostridium sporogenes</i> ATCC 15579	NZ_DS981517.1
<i>Clostridium</i> SS2 1	NZ_DS546996.1
<i>Clostridium symbiosum</i> WAL 14163	NZ_GL834305.1
<i>Clostridium symbiosum</i> WAL 14673	NZ_GL834357.1
<i>Clostridium thermocellum</i> DSM 2360	NZ_ACVX01000001.1
<i>Clostridium thermocellum</i> JW20	NZ_ABVG02000001.1
<i>Collinsella aerofaciens</i> ATCC 25986	NZ_AAVN02000001.1
<i>Collinsella intestinalis</i> DSM 13280	NZ_GG692710.1
<i>Collinsella stercoris</i> DSM 13279	NZ_DS995473.1
<i>Collinsella tanakaei</i> YIT 12063	NZ_JH126467.1
<i>Comamonas testosteroni</i> KF 1	NZ_AAUIJ02000001.1
<i>Comamonas testosteroni</i> S44	NZ_ADVQ01000001.1
<i>Commensalibacter intestini</i> A911	NZ_AGFR01000001.1
<i>Congregibacter litoralis</i> KT71	NZ_CH672401.1
<i>Coprobacillus</i> 29 1	NZ_GL636577.1
<i>Coprobacillus</i> 3 3 56FAA	NZ_JH470424.1
<i>Coprobacillus</i> D7	NZ_EQ999878.1
<i>Coprococcus comes</i> ATCC 27758	NZ_GG662005.1
<i>Coprococcus eutactus</i> ATCC 27759	NZ_DS483520.1
<i>Corynebacterium accolens</i> ATCC 49725	NZ_GG666993.1
<i>Corynebacterium accolens</i> ATCC 49726	NZ_GL397138.1
<i>Corynebacterium ammoniagenes</i> DSM 20306	NZ_GG771285.1
<i>Corynebacterium amycolatum</i> SK46	NZ_ABZU01000001.1
<i>Corynebacterium aurimucosum</i> ATCC 700975	NZ_ACLH01000001.1
<i>Corynebacterium bovis</i> DSM 20582	NZ_AENJ01000001.1
<i>Corynebacterium casei</i>	NZ_CAFW01000001.1
<i>Corynebacterium efficiens</i> YS 314	NZ_GG700683.1
<i>Corynebacterium genitalium</i> ATCC 33030	NZ_CM000961.1
<i>Corynebacterium glucuronolyticum</i> ATCC 51866	NZ_GG667031.1
<i>Corynebacterium glucuronolyticum</i> ATCC 51867	NZ_GG667127.1
<i>Corynebacterium jeikeium</i> ATCC 43734	NZ_GG700813.1
<i>Corynebacterium lipophiloflavum</i> DSM 44291	NZ_GG667191.1
<i>Corynebacterium matruchotii</i> ATCC 14266	NZ_ACSH02000001.1
<i>Corynebacterium matruchotii</i> ATCC 33806	NZ_EQ973328.1
<i>Corynebacterium nuruki</i> S6 4	NZ_AFIZ01000001.1
<i>Corynebacterium pseudogenitalium</i> ATCC 33035	NZ_GL542874.1
<i>Corynebacterium striatum</i> ATCC 6940	NZ_GG667519.1
<i>Corynebacterium tuberculostearicum</i> SK141	NZ_ACVF01000001.1
<i>Coziella burnetii</i> MSU Goat Q177	NZ_AAUP02000001.2

<i>Coziella burnetii</i> RSA 334	NZ_AAYJ01000001.1
<i>Crocospaera watsonii</i> WH 8501	NZ_AADV02000001.1
<i>Cyanobium</i> PCC 7001	NZ_DS990556.1
<i>Cyanothece</i> ATCC 51472	NZ_AGJC01000001.1
<i>Cyanothece</i> CCY0110	NZ_AAXW01000001.1
<i>Cylindrospermopsis raciborskii</i> CS 505	NZ_ACYA01000001.1
<i>delta proteobacterium</i> MLMS 1	NZ_AAQF01000001.1
<i>delta proteobacterium</i> NaphS2	NZ_ADZZ01000001.1
<i>Dermacoccus</i> Ellin185	NZ_AEIQ01000001.1
<i>Desmospora</i> 8437	NZ_GL892032.1
<i>Desulfotobacterium metallireducens</i> DSM 15288	NZ_AGJB01000001.1
<i>Desulfobacter postgatei</i> 2ac9	NZ_AGJR01000001.1
<i>Desulfonatronospira thiodismutans</i> ASO3 1	NZ_ACJN02000001.1
<i>Desulfosporosinus meridei</i> DSM 13257	NZ_AGJA01000001.1
<i>Desulfosporosinus</i> OT	NZ_AGAF01000001.1
<i>Desulfotomaculum gibsoniae</i> DSM 7213	NZ_AGJQ01000001.1
<i>Desulfotomaculum nigrificans</i> DSM 574	NZ_AEVP01000001.1
<i>Desulfovibrio</i> 3 1 syn3	NZ_GL384287.1
<i>Desulfovibrio</i> 6 1 46AFAA	NZ_JH114300.1
<i>Desulfovibrio</i> A2	NZ_AGFG01000001.1
<i>Desulfovibrio fructosovorans</i> JJ	NZ_AECZ01000001.1
<i>Desulfovibrio</i> FW1012B	NZ_CM001368.1
<i>Desulfovibrio piger</i> ATCC 29098	NZ_DS996351.1
<i>Desulfurococcus fermentans</i> DSM 16532	NZ_AGIW01000001.1
<i>Desulfuromonas acetoxidans</i> DSM 684	NZ_AA EW02000001.1
<i>Dethiobacter alkaliphilus</i> AHT 1	NZ_ACJM01000001.1
<i>Dethiosulfovibrio peptidovorans</i> DSM 11002	NZ_ABTR02000001.1
<i>Dialister invisus</i> DSM 15470	NZ_GG698602.1
<i>Dialister microaerophilus</i> DSM 19965	NZ_GL878519.1
<i>Dialister microaerophilus</i> UPII 345 E	NZ_AENT01000001.1
<i>Dietzia cinnamnea</i> P4	NZ_AEKG01000001.1
<i>Dokdonia donghaensis</i> MED134	NZ_CH672388.1
<i>Dorea formicigenerans</i> 4 6 53AFAA	NZ_JH126487.1
<i>Dorea formicigenerans</i> ATCC 27755	NZ_AAXA02000001.1
<i>Dorea longicatena</i> DSM 13814	NZ_DS264384.1
<i>Dysgonomonas gadei</i> ATCC BAA 286	NZ_GL891979.1
<i>Dysgonomonas mossii</i> DSM 22836	NZ_GL892004.1
<i>Edwardsiella tarda</i> ATCC 23685	NZ_GG739629.1
<i>Eggerthella</i> 1 3 56FAA	NZ_GL622579.1
<i>Eggerthella</i> HGA1	NZ_AEXR01000001.1
<i>Ehrlichia chaffeensis</i> Sapulpa	NZ_AAIF01000001.1
<i>Eikenella corrodens</i> ATCC 23834	NZ_EQ973316.1
<i>Elizabethkingia anophelis</i> Ag1	NZ_AHHG01000001.1
<i>Endoriftia persephone</i> Hot96 1 Hot96 2	NZ_AASF01000001.1
<i>endosymbiont of Riftia pachyptila</i> vent Ph05	NZ_AFOC01000001.1
<i>endosymbiont of Tevnia jerichonana</i> vent Tica	NZ_AFZB01000001.1
<i>Enhydrobacter aerosaccus</i> SK60	NZ_ACYI01000001.1
<i>Enterobacter cancerogenus</i> ATCC 35316	NZ_GG704863.1
<i>Enterobacter hormaechei</i> ATCC 49162	NZ_GL892086.1
<i>Enterobacteriaceae bacterium</i> 9 2 54FAA	NZ_GL622686.1
<i>Enterobacter mori</i> LMG 25706	NZ_GL890773.1
<i>Enterococcus casseliflavus</i> ATCC 12755	NZ_GL872323.1
<i>Enterococcus casseliflavus</i> EC10	NZ_GG692815.1
<i>Enterococcus casseliflavus</i> EC20	NZ_GG670300.1
<i>Enterococcus casseliflavus</i> EC30	NZ_GG670385.1
<i>Enterococcus faecalis</i> ARO1 DG	NZ_GG692898.1
<i>Enterococcus faecalis</i> ATCC 29200	NZ_GG668755.1

<i>Enterococcus faecalis</i> ATCC 4200	NZ_GG670371.1
<i>Enterococcus faecalis</i> CH188	NZ_GG688650.1
<i>Enterococcus faecalis</i> D6	NZ_GG688626.1
<i>Enterococcus faecalis</i> DAPTO 512	NZ_GL455784.1
<i>Enterococcus faecalis</i> DAPTO 516	NZ_GL455705.1
<i>Enterococcus faecalis</i> DS5	NZ_GG692855.1
<i>Enterococcus faecalis</i> E1Sol	NZ_GG692672.1
<i>Enterococcus faecalis</i> Fly1	NZ_GG692660.1
<i>Enterococcus faecalis</i> HH22	NZ_GG668819.1
<i>Enterococcus faecalis</i> HIP11704	NZ_GG692622.1
<i>Enterococcus faecalis</i> JH1	NZ_GG692686.1
<i>Enterococcus faecalis</i> Merz96	NZ_GG692911.1
<i>Enterococcus faecalis</i> PC1 1	NZ_ADM01000001.1
<i>Enterococcus faecalis</i> R712	NZ_GG739821.1
<i>Enterococcus faecalis</i> S613	NZ_GG739716.1
<i>Enterococcus faecalis</i> T11	NZ_GG688637.1
<i>Enterococcus faecalis</i> T1	NZ_GG670345.1
<i>Enterococcus faecalis</i> T2	NZ_GG692833.1
<i>Enterococcus faecalis</i> T3	NZ_GG670361.1
<i>Enterococcus faecalis</i> T8	NZ_GG698872.1
<i>Enterococcus faecalis</i> TUSoD Efl1	NZ_ACOX02000001.1
<i>Enterococcus faecalis</i> TX0102	NZ_GL455093.1
<i>Enterococcus faecalis</i> TX0104	NZ_GG668922.1
<i>Enterococcus faecalis</i> TX0109	NZ_GL455412.1
<i>Enterococcus faecalis</i> TX0411	NZ_GL456398.1
<i>Enterococcus faecalis</i> TX0470	NZ_GL456509.1
<i>Enterococcus faecalis</i> TX0635	NZ_GL455326.1
<i>Enterococcus faecalis</i> TX0855	NZ_GL455640.1
<i>Enterococcus faecalis</i> TX0860	NZ_GL455490.1
<i>Enterococcus faecalis</i> TX1322	NZ_GG669017.1
<i>Enterococcus faecalis</i> TX2134	NZ_GL455562.1
<i>Enterococcus faecalis</i> TX4248	NZ_GL454407.1
<i>Enterococcus faecalis</i> X98	NZ_GG688423.1
<i>Enterococcus faecium</i> 1 141 733	NZ_GG688461.1
<i>Enterococcus faecium</i> 1 230 933	NZ_GG692537.1
<i>Enterococcus faecium</i> 1 231 408	NZ_GG688547.1
<i>Enterococcus faecium</i> 1 231 410	NZ_GG692468.1
<i>Enterococcus faecium</i> 1 231 501	NZ_GG688436.1
<i>Enterococcus faecium</i> 1 231 502	NZ_GG688486.1
<i>Enterococcus faecium</i> C68	NZ_GG703698.1
<i>Enterococcus faecium</i> Com12	NZ_GG670306.1
<i>Enterococcus faecium</i> Com15	NZ_GG670325.1
<i>Enterococcus faecium</i> D344SRF	NZ_ACZZ01000001.1
<i>Enterococcus faecium</i> DO	NZ_AAAK03000001.1
<i>Enterococcus faecium</i> DO	NZ_ACIY01000001.1
<i>Enterococcus faecium</i> E1039	NZ_ACOS01000001.1
<i>Enterococcus faecium</i> E1071	NZ_ABQI01000001.1
<i>Enterococcus faecium</i> E1162	NZ_ABQJ01000001.1
<i>Enterococcus faecium</i> E1636	NZ_ABRY01000001.1
<i>Enterococcus faecium</i> E1679	NZ_ABSC01000001.1
<i>Enterococcus faecium</i> E980	NZ_ABQA01000001.1
<i>Enterococcus faecium</i> TC 6	NZ_GG703573.1
<i>Enterococcus faecium</i> TX0082	NZ_GL455858.1
<i>Enterococcus faecium</i> TX0133a01	NZ_GL476015.1
<i>Enterococcus faecium</i> TX0133a04	NZ_GL454903.1
<i>Enterococcus faecium</i> TX0133A	NZ_GL456551.1
<i>Enterococcus faecium</i> TX0133B	NZ_GL456794.1

<i>Enterococcus faecium</i> TX0133C	NZ_GL455133.1
<i>Enterococcus faecium</i> TX1330	NZ_GG669057.1
<i>Enterococcus faecium</i> U0317	NZ_ABSW01000001.1
<i>Enterococcus gallinarum</i> EG2	NZ_GG670286.1
<i>Enterococcus italicus</i> DSM 15952	NZ_GL622241.1
<i>Enterococcus saccharolyticus</i> 30 1	NZ_JH376939.1
<i>Epulopiscium</i> N t morphotype B	NZ_ABEQ01000001.3
<i>Eremococcus coleocola</i> ACS 139 V Col8	NZ_AENN01000001.1
<i>Erysipelothrix rhusiopathiae</i> ATCC 19414	NZ_ACLK02000001.1
<i>Erysipelotrichaceae bacterium</i> 2 2 44A	NZ_JH126431.1
<i>Erysipelotrichaceae bacterium</i> 3 1 53	NZ_GL520132.1
<i>Erysipelotrichaceae bacterium</i> 5 2 54FAA	NZ_GG749077.1
<i>Erythrobacter</i> NAP1	NZ_CH672390.1
<i>Erythrobacter</i> SD 21	NZ_ABCG01000001.1
<i>Escherichia</i> 1 1 43	NZ_GG665811.1
<i>Escherichia</i> 3 2 53FAA	NZ_DS999459.1
<i>Escherichia</i> 4 1 40B	NZ_GG657415.1
<i>Escherichia albertii</i> TW07627	NZ_CH991859.1
<i>Escherichia coli</i> 101 1	NZ_AAMK02000001.1
<i>Escherichia coli</i> 1827 70	NZ_ADUK01000001.1
<i>Escherichia coli</i> 2362 75	NZ_ADUL01000001.1
<i>Escherichia coli</i> 53638	NZ_AAKB02000001.1
<i>Escherichia coli</i> 83972	NZ_GG669095.1
<i>Escherichia coli</i> B088	NZ_GG749125.1
<i>Escherichia coli</i> B171	NZ_AA_JX02000001.1
<i>Escherichia coli</i> B185	NZ_GG749162.1
<i>Escherichia coli</i> B354	NZ_GG749326.1
<i>Escherichia coli</i> B7A	NZ_AA_JT02000001.1
<i>Escherichia coli</i> E110019	NZ_AA_JW02000001.1
<i>Escherichia coli</i> E22	NZ_AA_JV02000001.1
<i>Escherichia coli</i> F11	NZ_AA_JU02000001.1
<i>Escherichia coli</i> FVEC1302	NZ_GG774899.1
<i>Escherichia coli</i> FVEC1412	NZ_GG749206.1
<i>Escherichia coli</i> H299	NZ_GL884490.1
<i>Escherichia coli</i> H591	NZ_GL884408.1
<i>Escherichia coli</i> H736	NZ_GL883767.1
<i>Escherichia coli</i> M605	NZ_GL883892.1
<i>Escherichia coli</i> M718	NZ_GL884101.1
<i>Escherichia coli</i> MS 107 1	NZ_ADWV01000001.1
<i>Escherichia coli</i> MS 115 1	NZ_GG771708.1
<i>Escherichia coli</i> MS 116 1	NZ_GG773342.1
<i>Escherichia coli</i> MS 119 7	NZ_ADWU01000001.1
<i>Escherichia coli</i> MS 124 1	NZ_ADWT01000001.1
<i>Escherichia coli</i> MS 145 7	NZ_ADWS01000001.1
<i>Escherichia coli</i> MS 146 1	NZ_GG772040.1
<i>Escherichia coli</i> MS 175 1	NZ_GG773588.1
<i>Escherichia coli</i> MS 182 1	NZ_GG771869.1
<i>Escherichia coli</i> MS 185 1	NZ_GG774191.1
<i>Escherichia coli</i> MS 187 1	NZ_GG772477.1
<i>Escherichia coli</i> MS 196 1	NZ_GG773880.1
<i>Escherichia coli</i> MS 198 1	NZ_GG771311.1
<i>Escherichia coli</i> MS 200 1	NZ_GG773727.1
<i>Escherichia coli</i> MS 21 1	NZ_GG772584.1
<i>Escherichia coli</i> MS 45 1	NZ_GG772175.1
<i>Escherichia coli</i> MS 69 1	NZ_GG772327.1
<i>Escherichia coli</i> MS 78 1	NZ_GG773215.1
<i>Escherichia coli</i> MS 84 1	NZ_GG771526.1

<i>Escherichia coli</i> NC101	NZ_AEFA01000001.1
<i>Escherichia coli</i> O157 H7 EC4024	NZ_DS571061.1
<i>Escherichia coli</i> O157 H7 EC4042	NZ_ABHM02000001.1
<i>Escherichia coli</i> O157 H7 EC4045	NZ_ABHL02000001.1
<i>Escherichia coli</i> O157 H7 EC4076	NZ_ABHQ01000001.1
<i>Escherichia coli</i> O157 H7 EC4113	NZ_ABHP01000001.1
<i>Escherichia coli</i> O157 H7 EC4196	NZ_ABHO01000001.1
<i>Escherichia coli</i> O157 H7 EC4206	NZ_ABHK02000001.1
<i>Escherichia coli</i> O157 H7 EC4401	NZ_ABHR01000001.1
<i>Escherichia coli</i> O157 H7 EC4486	NZ_ABHS01000001.1
<i>Escherichia coli</i> O157 H7 EC4501	NZ_ABHT01000001.1
<i>Escherichia coli</i> O157 H7 EC508	NZ_ABHW01000001.1
<i>Escherichia coli</i> O157 H7 EC869	NZ_ABHU01000001.1
<i>Escherichia coli</i> O157 H7 FR1K2000	NZ_ACXO01000001.1
<i>Escherichia coli</i> O157 H7 FR1K966	NZ_ACXN01000001.1
<i>Escherichia coli</i> O157 H7 TW14588	NZ_CM000662.1
<i>Escherichia coli</i> OP50	NZ_ADBT01000001.1
<i>Escherichia coli</i> TA143	NZ_GL884206.1
<i>Escherichia coli</i> TA206	NZ_GL884168.1
<i>Escherichia coli</i> TA271	NZ_GL884249.1
<i>Escherichia coli</i> TA280	NZ_GL884332.1
<i>Escherichia coli</i> W	NZ_AEDF01000001.1
<i>Escherichia</i> TW09308	NZ_AEME01000001.1
<i>Eubacteriaceae bacterium</i> ACC19a	NZ_JH414546.1
<i>Eubacteriaceae bacterium</i> CM2	NZ_JH414513.1
<i>Eubacteriaceae bacterium</i> CM5	NZ_JH414596.1
<i>Eubacterium bifforme</i> DSM 3989	NZ_DS996836.1
<i>Eubacterium cellulosolvens</i> 6	NZ_AEOA01000001.1
<i>Eubacterium dolichum</i> DSM 3991	NZ_DS483460.1
<i>Eubacterium hallii</i> DSM 3353	NZ_ACEP01000001.1
<i>Eubacterium saburreum</i> DSM 3986	NZ_GL622296.1
<i>Eubacterium saphenum</i> ATCC 49989	NZ_GG688422.1
<i>Eubacterium siraeum</i> DSM 15702	NZ_DS499508.1
<i>Eubacterium ventriosum</i> ATCC 27560	NZ_DS264262.1
<i>Eubacterium yurii margaretae</i> ATCC 43715	NZ_GL405246.1
<i>Faecalibacterium cf prausnitzii</i> KLE1255	NZ_GL538213.1
<i>Faecalibacterium prausnitzii</i> A2 165	NZ_GG697149.2
<i>Faecalibacterium prausnitzii</i> M21 2	NZ_DS483479.1
<i>Ferroplasma acidarmanus</i> fer1	NZ_CM000428.1
<i>Fervidobacterium pennivorans</i> DSM 9078	NZ_AGJO01000001.1
<i>Finegoldia magna</i> ACS 171 V Col3	NZ_AECM01000001.1
<i>Finegoldia magna</i> ATCC 53516	NZ_CM000955.1
<i>Finegoldia magna</i> BVS033A4	NZ_AEDP01000001.1
<i>Fischerella</i> JSC 11	NZ_AGIZ01000001.1
<i>Flavobacteria bacterium</i> BAL38	NZ_AAXX01000001.1
<i>Flavobacteria bacterium</i> BBFL7	NZ_CH672374.1
<i>Flavobacteria bacterium</i> MS024 2A	NZ_ABVV01000001.1
<i>Flavobacteria bacterium</i> MS024 3C	NZ_ABVW01000001.1
<i>Flavobacteriaceae bacterium</i> HQM9	NZ_AFPB01000001.1
<i>Flavobacteriales bacterium</i> ALC 1	NZ_ABHI01000001.1
<i>Flavonifractor plautii</i> ATCC 29863	NZ_JH417617.1
<i>Francisella novicida</i> FTE	NZ_DS989818.1
<i>Francisella novicida</i> FTG	NZ_DS995363.1
<i>Francisella novicida</i> GA99 3548	NZ_DS264587.1
<i>Francisella novicida</i> GA99 3549	NZ_DS264124.1
<i>Francisella philomiragia</i> ATCC 25015	NZ_DS999308.1
<i>Francisella tularensis</i> FSC033	NZ_DS264116.1

<i>Francisella tularensis holarctica</i> 257	NZ_DS229038.1
<i>Francisella tularensis holarctica</i> FSC022	NZ_DS264133.1
<i>Francisella tularensis holarctica</i> FSC200	NZ_AASP01000001.1
<i>Francisella tularensis holarctica</i> URFT1	NZ_ABAZ01000001.1
<i>Francisella tularensis</i> MA00 2987	NZ_DS990210.1
<i>Frankia</i> CN3	NZ_AGJN01000001.1
<i>Frankia</i> EUN1f	NZ_ADGX01000001.1
<i>Fructobacillus fructosus</i> KCTC 3544	NZ_AEOP01000001.1
<i>Fulvimarina pelagi</i> HTCC2506	NZ_DS022272.1
<i>Fusobacterium</i> 11 3 2	NZ_GL945391.1
<i>Fusobacterium</i> 1 1 41FAA	NZ_GG770374.1
<i>Fusobacterium</i> 21 1A	NZ_GL945387.1
<i>Fusobacterium</i> 2 1 31	NZ_GL988006.1
<i>Fusobacterium</i> 3 1 27	NZ_GG770328.1
<i>Fusobacterium</i> 3 1 33	NZ_GG704455.1
<i>Fusobacterium</i> 3 1 36A2	NZ_GG698790.1
<i>Fusobacterium</i> 3 1 5R	NZ_GG657971.1
<i>Fusobacterium</i> 4 1 13	NZ_GG657999.1
<i>Fusobacterium</i> 7 1	NZ_GG658011.1
<i>Fusobacterium</i> D11	NZ_EQ999802.1
<i>Fusobacterium</i> D12	NZ_GL988012.1
<i>Fusobacterium gonidiaformans</i> ATCC 25563	NZ_GG658179.1
<i>Fusobacterium mortiferum</i> ATCC 9817	NZ_GL987987.1
<i>Fusobacterium nucleatum</i> ATCC 23726	NZ_ADVK01000001.1
<i>Fusobacterium nucleatum polymorphum</i> ATCC 10953	NZ_CM000440.1
<i>Fusobacterium nucleatum vincentii</i> ATCC 49256	NZ_AABF02000001.1
<i>Fusobacterium oral</i> taxon 370 F0437	NZ_JH378894.1
<i>Fusobacterium periodonticum</i> ATCC 33693	NZ_GG665876.1
<i>Fusobacterium ulcerans</i> ATCC 49185	NZ_GG658104.1
<i>Fusobacterium varium</i> ATCC 27725	NZ_GL987995.1
<i>gamma proteobacterium</i> HTCC2207	NZ_CH672396.1
<i>gamma proteobacterium</i> HTCC5015	NZ_DS990598.1
<i>gamma proteobacterium</i> IMCC1989	NZ_AEVK01000001.1
<i>gamma proteobacterium</i> IMCC2047	NZ_AEGL01000001.1
<i>gamma proteobacterium</i> IMCC3088	NZ_AEIG01000001.1
<i>gamma proteobacterium</i> NOR51 B	NZ_DS999411.1
<i>gamma proteobacterium</i> NOR5 3	NZ_DS999405.1
<i>gamma proteobacterium</i> SCGC AAA001 B15	NZ_AFHZ01000001.1
<i>Gardnerella vaginalis</i> 5 1	NZ_ADAN01000001.1
<i>Gardnerella vaginalis</i> AMD	NZ_ADAM01000001.1
<i>Gardnerella vaginalis</i> ATCC 14018	NZ_ADNB01000001.1
<i>Gemella haemolysans</i> ATCC 10379	NZ_ACDZ02000001.1
<i>Gemella haemolysans</i> M341	NZ_GL883582.1
<i>Gemella moribillum</i> M424	NZ_GL622607.1
<i>Gemella sanguinis</i> M325	NZ_GL883552.1
<i>Gemmata obscuriglobus</i> UQM 2246	NZ_ABGO01000001.1
<i>Geobacillus</i> G11MC16	NZ_ABVH01000001.1
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<i>Glaciecola</i> HTCC2999	NZ_DS989810.1
<i>Gluconacetobacter europaeus</i> LMG 18494	NZ_CADR01000001.1
<i>Gluconacetobacter hansenii</i> ATCC 23769	NZ_CM000920.1
<i>Gluconacetobacter oboediens</i> 174Bp2	NZ_CADT01000001.1
<i>Gluconacetobacter</i> SXCC 1	NZ_AFCH01000001.1
<i>Gluconobacter morbifer</i> G707	NZ_AGQV01000001.1
<i>Gordonia alkanivorans</i> NBRC 16433	NZ_BACI01000001.1
<i>Gordonia amarae</i> NBRC 15530	NZ_BAED01000001.1
<i>Gordonia arii</i> NBRC 100433	NZ_BAEE01000001.1

<i>Gordonia effusa</i> NBRC 100432	NZ_BAEH01000001.1
<i>Gordonia neofelifaecis</i> NRRL B 59395	NZ_AEUD01000001.1
<i>Gordonia polyisoprenivorans</i> NBRC 16320	NZ_BAEI01000001.1
<i>Granulicatella adiacens</i> ATCC 49175	NZ_GG694015.1
<i>Granulicatella elegans</i> ATCC 700633	NZ_GG703805.1
<i>Grimontia hollisae</i> CIP 101886	NZ_ADAQ01000001.1
<i>Haemophilus aegyptius</i> ATCC 11116	NZ_GL878526.1
<i>Haemophilus haemolyticus</i> M21621	NZ_AFQQ01000001.1
<i>Haemophilus influenzae</i> 22 1 21	NZ_AAAD01000001.1
<i>Haemophilus influenzae</i> 3655	NZ_AAZF01000001.1
<i>Haemophilus influenzae</i> 6P18H1	NZ_ABWW01000001.1
<i>Haemophilus influenzae</i> 7P49H1	NZ_ABWV01000001.1
<i>Haemophilus influenzae</i> NT127	NZ_ACSL01000001.1
<i>Haemophilus influenzae</i> PittAA	NZ_AAZG01000001.1
<i>Haemophilus influenzae</i> PittHH	NZ_AAZH01000001.1
<i>Haemophilus influenzae</i> PittII	NZ_AAZI01000001.1
<i>Haemophilus influenzae</i> R3021	NZ_AAZJ01000001.1
<i>Haemophilus influenzae</i> R3021	NZ_AAZE01000001.1
<i>Haemophilus influenzae</i> RdAW	NZ_ACSM01000001.1
<i>Haemophilus parainfluenzae</i> ATCC 33392	NZ_GL872339.1
<i>Haemophilus parainfluenzae</i> CCUG 13788	NZ_AFNK01000001.1
<i>Haemophilus parasuis</i> 29755	NZ_ABM010000001.1
<i>Haemophilus pittmaniae</i> HK 85	NZ_AFUV01000001.1
<i>Hafnia alvei</i> ATCC 51873	NZ_JH417481.1
<i>Haladaptatus paucihalophilus</i> DX253	NZ_AEMG01000001.1
<i>Halobacterium</i> DL1	NZ_AGIR01000001.1
<i>Halomonas boliviensis</i> LC1	NZ_JH393257.1
<i>Halomonas</i> GFAJ 1	NZ_AHBC01000001.1
<i>Halomonas</i> HAL1	NZ_AGIB01000001.1
<i>Halomonas</i> TD01	NZ_GL949754.1
<i>Haloplasma contractile</i> SSD 17B	NZ_AFNU01000001.1
<i>Halorhabdus tiamatea</i> SARL4B	NZ_AFNT01000001.1
<i>Helicobacter bilis</i> ATCC 43879	NZ_GG661874.1
<i>Helicobacter canadensis</i> MIT 98 5491	NZ_DS990368.1
<i>Helicobacter canadensis</i> MIT 98 5491	NZ_CM000776.2
<i>Helicobacter cinaedi</i> CCUG 18818	NZ_DS990391.1
<i>Helicobacter pullorum</i> MIT 98 5489	NZ_DS990441.1
<i>Helicobacter pylori</i> 98 10	NZ_ABSX01000001.1
<i>Helicobacter pylori</i> B128	NZ_ABSY01000001.1
<i>Helicobacter pylori</i> HPKX 438 AG0C1	NZ_ABJO01000001.1
<i>Helicobacter pylori</i> HPKX 438 CA4C1	NZ_ABJP01000001.1
<i>Helicobacter suis</i> HS1	NZ_ADGY01000001.1
<i>Helicobacter suis</i> HS5	NZ_ADHO01000001.1
<i>Helicobacter winghamensis</i> ATCC BAA 430	NZ_GG661973.1
<i>Hoeflea phototrophica</i> DFL 43	NZ_DS544889.1
<i>Holdemania filiformis</i> DSM 12042	NZ_GG657551.1
<i>Hydrogenivirga</i> 128 5 R1 1	NZ_ABHJ01000001.1
<i>Hylemonella gracilis</i> ATCC 19624	NZ_AEGR01000001.1
<i>Idiomarina</i> A28L	NZ_AFPO01000001.1
<i>Idiomarina baltica</i> OS145	NZ_CH672403.1
<i>Janibacter</i> HTCC2649	NZ_CH672413.1
<i>Johnsonella ignava</i> ATCC 51276	NZ_JH378829.1
<i>Jonquetella anthropi</i> E3 33 E1	NZ_GG697147.2
<i>Kingella denitrificans</i> ATCC 33394	NZ_GL870929.1
<i>Kingella kingae</i> ATCC 23330	NZ_GL891959.1
<i>Kingella oralis</i> ATCC 51147	NZ_GG665871.1
<i>Klebsiella</i> 1 1 55	NZ_GG745508.1

<i>Klebsiella 4 1 44FAA</i>	NZ_JH414798.1
<i>Klebsiella MS 92 3</i>	NZ_GL882699.1
<i>Klebsiella pneumoniae rhinoscleromatis ATCC 13884</i>	NZ_GG703522.1
<i>Kordia algicida OT 1</i>	NZ_DS544873.1
<i>Ktedonobacter racemifer DSM 44963</i>	NZ_ADVG01000001.1
<i>Labrenzia aggregata IAM 12614</i>	NZ_AAUW01000001.1
<i>Labrenzia alexandrii DFL 11</i>	NZ_EQ973119.1
<i>Lachnospiraceae bacterium 1 1 57FAA</i>	NZ_GL945294.1
<i>Lachnospiraceae bacterium 1 4 56FAA</i>	NZ_GL945163.1
<i>Lachnospiraceae bacterium 2 1 46FAA</i>	NZ_GL890503.1
<i>Lachnospiraceae bacterium 2 1 58FAA</i>	NZ_GL945333.1
<i>Lachnospiraceae bacterium 3 1 46FAA</i>	NZ_GL890520.1
<i>Lachnospiraceae bacterium 3 1 57FAA CT1</i>	NZ_GL945195.1
<i>Lachnospiraceae bacterium 4 1 37FAA</i>	NZ_GL872349.1
<i>Lachnospiraceae bacterium 5 1 57FAA</i>	NZ_GL945243.1
<i>Lachnospiraceae bacterium 5 1 63FAA</i>	NZ_GL622401.1
<i>Lachnospiraceae bacterium 6 1 63FAA</i>	NZ_GL890548.1
<i>Lachnospiraceae bacterium 8 1 57FAA</i>	NZ_GL622449.1
<i>Lachnospiraceae bacterium 9 1 43BFAA</i>	NZ_GL890571.1
<i>Lachnospiraceae oral taxon 107 F0167</i>	NZ_GL890583.1
<i>Lactobacillus 7 1 47FAA</i>	NZ_JH164952.1
<i>Lactobacillus acidipiscis KCTC 13900</i>	NZ_BACS01000001.1
<i>Lactobacillus acidophilus ATCC 4796</i>	NZ_GG669566.1
<i>Lactobacillus amylolyticus DSM 11664</i>	NZ_ADNY01000001.1
<i>Lactobacillus animalis KCTC 3501</i>	NZ_GL573153.1
<i>Lactobacillus antri DSM 16041</i>	NZ_GG700732.1
<i>Lactobacillus brevis gravesensis ATCC 27305</i>	NZ_GG669604.1
<i>Lactobacillus buchneri ATCC 11577</i>	NZ_GG669710.1
<i>Lactobacillus coleohominis 101 4 CHN</i>	NZ_GG698802.1
<i>Lactobacillus coryniformis KCTC 3167</i>	NZ_GL544587.1
<i>Lactobacillus coryniformis torquens KCTC 3535</i>	NZ_AEOS01000001.1
<i>Lactobacillus crispatus 125 2 CHN</i>	NZ_GG698760.1
<i>Lactobacillus crispatus 214 1</i>	NZ_ADGR01000001.1
<i>Lactobacillus crispatus CTV 05</i>	NZ_GL531736.1
<i>Lactobacillus crispatus JV V01</i>	NZ_GG669814.1
<i>Lactobacillus crispatus MV 1A US</i>	NZ_GG698827.1
<i>Lactobacillus crispatus MV 3A US</i>	NZ_GG704606.1
<i>Lactobacillus curvatus CRL 705</i>	NZ_AGBU01000001.1
<i>Lactobacillus delbrueckii bulgaricus PB2003 044 T3 4</i>	NZ_AEAT01000001.1
<i>Lactobacillus farciminis KCTC 3681</i>	NZ_GL575016.1
<i>Lactobacillus fermentum 28 3 CHN</i>	NZ_GG704699.1
<i>Lactobacillus fermentum ATCC 14931</i>	NZ_GG669900.1
<i>Lactobacillus fructivorans KCTC 3543</i>	NZ_GL622178.1
<i>Lactobacillus gasseri 202 4</i>	NZ_ACOZ01000001.1
<i>Lactobacillus gasseri 224 1</i>	NZ_ADFT01000001.1
<i>Lactobacillus gasseri JV V03</i>	NZ_GL379580.1
<i>Lactobacillus gasseri MV 22</i>	NZ_GL531761.1
<i>Lactobacillus helveticus DSM 20075</i>	NZ_GG700752.1
<i>Lactobacillus hilgardii ATCC 8290</i>	NZ_GG669992.1
<i>Lactobacillus iners AB 1</i>	NZ_ADHG01000001.1
<i>Lactobacillus iners ATCC 55195</i>	NZ_GL622333.1
<i>Lactobacillus iners DSM 13335</i>	NZ_GG700801.1
<i>Lactobacillus iners LactinV 01V1 a</i>	NZ_AEHQ01000001.1
<i>Lactobacillus iners LactinV 03V1 b</i>	NZ_AEHP01000001.1
<i>Lactobacillus iners LactinV 09V1 c</i>	NZ_AEHO01000001.1
<i>Lactobacillus iners LactinV 11V1 d</i>	NZ_AEHN01000001.1
<i>Lactobacillus iners LEAF 2052A d</i>	NZ_AEKI01000001.1

<i>Lactobacillus iners</i> LEAF 2053A b	NZ_AEKH01000001.1
<i>Lactobacillus iners</i> LEAF 2062A h1	NZ_AEKJ01000001.1
<i>Lactobacillus iners</i> LEAF 3008A a	NZ_AEKK01000001.1
<i>Lactobacillus iners</i> SPIN 1401G	NZ_AEXP01000001.1
<i>Lactobacillus iners</i> SPIN 2503V10 D	NZ_AEHR01000001.1
<i>Lactobacillus iners</i> UPII 143 D	NZ_AEXJ01000001.1
<i>Lactobacillus iners</i> UPII 60 B	NZ_AEXK01000001.1
<i>Lactobacillus jensenii</i> 115 3 CHN	NZ_GG704741.1
<i>Lactobacillus jensenii</i> 1153	NZ_GL545251.1
<i>Lactobacillus jensenii</i> 208 1	NZ_ADEX01000001.1
<i>Lactobacillus jensenii</i> 269 3	NZ_ACOY01000001.1
<i>Lactobacillus jensenii</i> 27 2 CHN	NZ_GG698814.1
<i>Lactobacillus jensenii</i> JV V16	NZ_CM000953.1
<i>Lactobacillus jensenii</i> SJ 7A US	NZ_GG704682.1
<i>Lactobacillus johnsonii</i> ATCC 33200	NZ_GG670120.1
<i>Lactobacillus malefermentans</i> KCTC 3548	NZ_BACN01000001.1
<i>Lactobacillus mali</i> KCTC 3596	NZ_BACP01000001.1
<i>Lactobacillus oris</i> PB013 T2 3	NZ_AEKL01000001.1
<i>Lactobacillus paracasei</i> 8700 2	NZ_DS990485.1
<i>Lactobacillus paracasei</i> ATCC 25302	NZ_GG670152.1
<i>Lactobacillus parafarraginis</i> F0439	NZ_JH414900.1
<i>Lactobacillus plantarum</i> ATCC 14917	NZ_GL379761.1
<i>Lactobacillus reuteri</i> 100 23	NZ_AAPZ02000001.1
<i>Lactobacillus reuteri</i> CF48 3A	NZ_GG693664.1
<i>Lactobacillus reuteri</i> MM2 3	NZ_GG693756.1
<i>Lactobacillus reuteri</i> MM4 1A	NZ_ACGX02000001.1
<i>Lactobacillus rhamnosus</i> HN001	NZ_ABWJ01000001.1
<i>Lactobacillus rhamnosus</i> LMS2 1	NZ_GG692960.1
<i>Lactobacillus ruminis</i> ATCC 25644	NZ_GL833109.1
<i>Lactobacillus ruminis</i> SPM0211	NZ_AFOJ01000001.1
<i>Lactobacillus salivarius</i> ACS 116 V Col5a	NZ_AEBA01000001.1
<i>Lactobacillus salivarius</i> ATCC 11741	NZ_GG693221.1
<i>Lactobacillus suebicus</i> KCTC 3549	NZ_BACO01000001.1
<i>Lactobacillus ultunensis</i> DSM 16047	NZ_GG693253.1
<i>Lactobacillus vaginalis</i> ATCC 49540	NZ_GG693412.1
<i>Lactobacillus versmoldensis</i> KCTC 3814	NZ_BACR01000001.1
<i>Lactobacillus zeae</i> KCTC 3804	NZ_BACQ01000001.1
<i>Lautropia mirabilis</i> ATCC 51599	NZ_GL636062.1
<i>Leeuwenhoekiella blandensis</i> MED217	NZ_CH672395.1
<i>Legionella drancourtii</i> LLAP12	JH413793.1
<i>Legionella longbeachae</i> D 4968	NZ_ACZG01000001.1
<i>Lentisphaera araneosa</i> HTCC2155	NZ_ABCK01000001.1
<i>Leptolyngbya valderiana</i> BDU 20041	NZ_AAZV01000001.1
<i>Leptospira licerasiae</i> serovar Varillal MMD0835	NZ_AFLO01000001.1
<i>Leptospira noguchii</i> 2006001870	NZ_AFLY01000001.1
<i>Leptospira santarosai</i> 2000030832	NZ_AFJN01000001.1
<i>Leptospira weilii</i> 2006001855	NZ_AFJM01000001.1
<i>Leptotrichia goodfellowii</i> F0264	NZ_ADAD01000001.1
<i>Leptotrichia hofstadii</i> F0254	NZ_GG700632.1
<i>Leuconostoc argentinum</i> KCTC 3773	NZ_AEGQ01000001.1
<i>Leuconostoc fallax</i> KCTC 3537	NZ_AEIZ01000001.1
<i>Leuconostoc gelidum</i> KCTC 3527	NZ_AEMI01000001.1
<i>Leuconostoc inhae</i> KCTC 3774	NZ_AEMJ01000001.1
<i>Leuconostoc lactis</i> KCTC 3528	NZ_AEOR01000001.1
<i>Leuconostoc mesenteroides</i> cremoris ATCC 19254	NZ_GG693383.1
<i>Leuconostoc pseudomesenteroides</i> KCTC 3652	NZ_AEOQ01000001.1
<i>Limnobacter</i> MED105	NZ_ABCT01000001.1

<i>Listeria grayi</i> DSM 20601	NZ_GL538352.1
<i>Listeria ivanovii</i> FSL F6 596	NZ_CM001050.1
<i>Listeria marthii</i> FSL S4 120	NZ_CM001047.1
<i>Listeria monocytogenes</i> F6900	NZ_AARU02000001.1
<i>Listeria monocytogenes</i> FSL F2 515	NZ_AARI02000001.1
<i>Listeria monocytogenes</i> FSL J1 175	NZ_AARK02000001.1
<i>Listeria monocytogenes</i> FSL J1 194	NZ_AARJ02000001.1
<i>Listeria monocytogenes</i> FSL J1 208	NZ_AARL02000001.1
<i>Listeria monocytogenes</i> FSL J2 003	NZ_AARM02000001.1
<i>Listeria monocytogenes</i> FSL J2 064	NZ_AARO02000001.1
<i>Listeria monocytogenes</i> FSL J2 071	NZ_AARN04000001.1
<i>Listeria monocytogenes</i> FSL N1 017	NZ_AARF04000001.1
<i>Listeria monocytogenes</i> FSL N3 165	NZ_AARQ02000001.1
<i>Listeria monocytogenes</i> FSL R2 503	NZ_AARR02000001.1
<i>Listeria monocytogenes</i> HPB2262	NZ_AATL02000001.1
<i>Listeria monocytogenes</i> J2818	NZ_AARX02000001.1
<i>Listeria monocytogenes</i> LO28	NZ_AARY02000001.1
<i>Listeria monocytogenes</i> serotype 1 2a F6854	NZ_AADQ01000001.1
<i>Listeria monocytogenes</i> serotype 4b H7858	NZ_AADR01000001.1
<i>Loktanella vestfoldensis</i> SKA53	NZ_CH672414.1
<i>Lutiella nitroferrum</i> 2002	NZ_ACIS01000001.1
<i>Lyngbya majuscula</i> 3L	NZ_GL890815.1
<i>Lyngbya</i> PCC 8106	NZ_AAVU01000001.1
<i>Lysinibacillus fusiformis</i> ZC1	NZ_ADJR01000001.1
<i>Magnetospirillum magnetotacticum</i> MS 1	
<i>Mannheimia haemolytica</i> PHL213	NZ_DS264608.1
<i>Mannheimia haemolytica</i> serotype A2 BOVINE	NZ_ACZY01000001.1
<i>Mannheimia haemolytica</i> serotype A2 OVINE	NZ_ACZX01000001.1
<i>Marichromatium purpuratum</i> 984	NZ_AFWU01000001.1
<i>marine actinobacterium</i> PHSC20C1	NZ_CH672415.1
<i>marine gamma proteobacterium</i> HTCC2080	NZ_AAVV01000001.1
<i>marine gamma proteobacterium</i> HTCC2143	NZ_AAVT01000001.1
<i>marine gamma proteobacterium</i> HTCC2148	NZ_DS999222.1
<i>Marinobacter algicola</i> DG893	NZ_ABCP01000001.1
<i>Marinobacter</i> ELB17	NZ_AAXY01000001.1
<i>Marinobacter</i> MnI7 9	NZ_AGTR01000001.1
<i>Marinomonas</i> MED121	NZ_CH672429.1
<i>Mariprofundus ferrooxydans</i> PV 1	NZ_DS022294.1
<i>Maritimibacter alkaliphilus</i> HTCC2654	NZ_CH902578.1
<i>Megasphaera genomosp type 1 28L</i>	NZ_ADGP01000001.1
<i>Megasphaera micronuciformis</i> F0359	NZ_GL538175.1
<i>Megasphaera</i> UP11 135 E	NZ_AFUG01000001.1
<i>Megasphaera</i> UP11 199 6	NZ_AFIJ01000001.1
<i>Mesorhizobium alhagi</i> CCNWXJ12 2	NZ_AHAM01000001.1
<i>Mesorhizobium amorphae</i> CCNWGS0123	NZ_AGSN01000001.1
<i>Mesorhizobium australicum</i> WSM2073	NZ_AGIX01000001.1
<i>Methanobrevibacter smithii</i> DSM 2374	NZ_GG704759.1
<i>Methanobrevibacter smithii</i> DSM 2375	NZ_DS996911.1
<i>Methanolinea tarda</i> NOBI 1	NZ_AGIY01000001.1
<i>Methylobacter tundripaludum</i> SV96	NZ_JH109152.1
<i>Methylocystis</i> ATCC 49242	NZ_AEVM01000001.1
<i>Methylobacterium album</i> BG8	NZ_AFJF01000001.1
<i>Methylophaga aminisulfidivorans</i> MP	NZ_AFIG01000001.1
<i>Methylophaga thiooxidans</i> DMS010	NZ_GG657882.1
<i>Methylophilales bacterium</i> HTCC2181	NZ_AAUX01000001.1
<i>Methylosinus trichosporium</i> OB3b	NZ_ADVE01000001.1
<i>Methyloversatilis universalis</i> FAM5	NZ_AFHG01000001.1

<i>Micrococcus luteus</i> NCTC 2665	NZ_CABC01000001.1
<i>Micrococcus luteus</i> SK58	NZ_ADCD01000001.1
<i>Microcoleus chthonoplastes</i> PCC 7420	NZ_DS989841.1
<i>Microcoleus vaginatus</i> FGP 2	NZ_AFJC01000001.1
<i>Micromonospora</i> ATCC 39149	NZ_GG657738.1
<i>Microscilla marina</i> ATCC 23134	NZ_AAWS01000001.1
<i>Mitsuokella multacida</i> DSM 20544	NZ_GG697141.2
<i>Mobiluncus curtisii</i> ATCC 35241	NZ_GL385912.1
<i>Mobiluncus curtisii</i> ATCC 51333	NZ_GL622340.1
<i>Mobiluncus curtisii holmesii</i> ATCC 35242	NZ_GL622346.1
<i>Mobiluncus mulieris</i> 28 1	NZ_ADBR01000001.1
<i>Mobiluncus mulieris</i> ATCC 35239	NZ_GL405260.1
<i>Mobiluncus mulieris</i> ATCC 35243	NZ_GG668518.1
<i>Mobiluncus mulieris</i> FB024 16	NZ_AEGV01000001.1
<i>Moritella</i> PE36	NZ_ABCQ01000001.1
<i>Mucilagibacter paludis</i> DSM 18603	NZ_AEIH01000001.1
<i>Mycobacterium avium</i> ATCC 25291	NZ_ACFI01000001.1
<i>Mycobacterium colombiense</i> CECT 3035	NZ_AFWV01000001.1
<i>Mycobacterium intracellulare</i> ATCC 13950	NZ_ABIN01000001.1
<i>Mycobacterium kansasii</i> ATCC 12478	NZ_CM000636.3
<i>Mycobacterium massiliense</i> CCUG 48898	NZ_AHAR01000001.1
<i>Mycobacterium parascrofulaceum</i> ATCC BAA 614	NZ_GG770553.1
<i>Mycobacterium thermoresistibile</i> ATCC 19527	NZ_AGVE01000001.1
<i>Mycobacterium tuberculosis</i> 02 1987	NZ_DS985180.1
<i>Mycobacterium tuberculosis</i> 210	NZ_ADAB01000001.1
<i>Mycobacterium tuberculosis</i> 94 M4241A	NZ_DS985170.1
<i>Mycobacterium tuberculosis</i> 98 R604 INH RIF EM	NZ_DS999515.1
<i>Mycobacterium tuberculosis</i> CPHL A	NZ_GG663497.1
<i>Mycobacterium tuberculosis</i> C	NZ_CH482373.1
<i>Mycobacterium tuberculosis</i> EAS054	NZ_DS985164.1
<i>Mycobacterium tuberculosis</i> GM 1503	NZ_DS986655.1
<i>Mycobacterium tuberculosis</i> H37Ra	NZ_AAYK01000001.1
<i>Mycobacterium tuberculosis</i> Haarlem	NZ_DS016976.1
<i>Mycobacterium tuberculosis</i> K85	NZ_GG663503.1
<i>Mycobacterium tuberculosis</i> KZN 4207	NZ_CM000787.2
<i>Mycobacterium tuberculosis</i> KZN 605	NZ_GG745507.1
<i>Mycobacterium tuberculosis</i> KZN R506	NZ_CM000789.2
<i>Mycobacterium tuberculosis</i> KZN V2475	NZ_CM000788.2
<i>Mycobacterium tuberculosis</i> SUMu001	NZ_GL503107.1
<i>Mycobacterium tuberculosis</i> SUMu002	NZ_GL544642.1
<i>Mycobacterium tuberculosis</i> SUMu003	NZ_GL544682.1
<i>Mycobacterium tuberculosis</i> SUMu004	NZ_GL544745.1
<i>Mycobacterium tuberculosis</i> SUMu005	NZ_GL544809.1
<i>Mycobacterium tuberculosis</i> SUMu006	NZ_GL544864.1
<i>Mycobacterium tuberculosis</i> SUMu007	NZ_GL544922.1
<i>Mycobacterium tuberculosis</i> SUMu008	NZ_GL544963.1
<i>Mycobacterium tuberculosis</i> SUMu009	NZ_GL545004.1
<i>Mycobacterium tuberculosis</i> SUMu010	NZ_GL545050.1
<i>Mycobacterium tuberculosis</i> SUMu011	NZ_GL545102.1
<i>Mycobacterium tuberculosis</i> SUMu012	NZ_GL545158.1
<i>Mycobacterium tuberculosis</i> T17	NZ_DS986672.1
<i>Mycobacterium tuberculosis</i> T46	NZ_GG663489.1
<i>Mycobacterium tuberculosis</i> T85	NZ_DS985147.1
<i>Mycobacterium tuberculosis</i> T92	NZ_DS985116.1
<i>Mycoplasma alligatoris</i> A21JP2	NZ_ADNC01000001.1
<i>Mycoplasma anatis</i> 1340	NZ_AFVJ01000001.1
<i>Mycoplasma columbinum</i> SF7	NZ_AFXA01000001.1

<i>Mycoplasma genitalium</i> G37	NZ_AAGX01000001.1
<i>Mycoplasma iowae</i> 695	NZ_AGFP01000001.1
<i>Mycoplasma ovipneumoniae</i> SC01	NZ_AFHO01000001.1
<i>Natrinema pellirubrum</i> DSM 15624	NZ_AGIN01000001.1
<i>Natronobacterium gregoryi</i> SP2	NZ_AGIM01000001.1
<i>Neisseria bacilliformis</i> ATCC BAA 1200	NZ_GL878494.1
<i>Neisseria cinerea</i> ATCC 14685	NZ_AC DY02000001.1
<i>Neisseria elongata glycolytica</i> ATCC 29315	NZ_ADBF01000001.1
<i>Neisseria flavescens</i> NRL30031 H210	NZ_ACEN01000001.1
<i>Neisseria flavescens</i> SK114	NZ_ACQV01000001.1
<i>Neisseria gonorrhoeae</i> 1291	NZ_DS999917.1
<i>Neisseria gonorrhoeae</i> 35 02	NZ_DS999959.1
<i>Neisseria gonorrhoeae</i> DGI18	NZ_EQ972648.1
<i>Neisseria gonorrhoeae</i> DGI2	NZ_GG749016.1
<i>Neisseria gonorrhoeae</i> F62	NZ_GG749348.1
<i>Neisseria gonorrhoeae</i> FA19	NZ_EQ972745.1
<i>Neisseria gonorrhoeae</i> FA6140	NZ_EQ972690.1
<i>Neisseria gonorrhoeae</i> MS11	NZ_EQ972789.1
<i>Neisseria gonorrhoeae</i> PID18	NZ_EQ972834.1
<i>Neisseria gonorrhoeae</i> PID1	NZ_EQ972883.1
<i>Neisseria gonorrhoeae</i> PID24 1	NZ_EQ972931.1
<i>Neisseria gonorrhoeae</i> PID332	NZ_EQ972985.1
<i>Neisseria gonorrhoeae</i> SK 92 679	NZ_EQ973032.1
<i>Neisseria gonorrhoeae</i> SK 93 1035	NZ_EQ973079.1
<i>Neisseria</i> GT4A CT1	NZ_JH164964.1
<i>Neisseria lactamica</i> ATCC 23970	NZ_ACEQ02000001.1
<i>Neisseria macacae</i> ATCC 33926	NZ_GL985618.1
<i>Neisseria meningitidis</i> ATCC 13091	NZ_GL397187.1
<i>Neisseria mucosa</i> ATCC 25996	NZ_ACDX02000001.1
<i>Neisseria mucosa</i> C102	NZ_GL635793.1
<i>Neisseria oral taxon</i> 014 F0314	NZ_GL349411.1
<i>Neisseria polysacchara</i> ATCC 43768	NZ_AD BE01000001.1
<i>Neisseria shayegani</i> 871	NZ_JH164926.1
<i>Neisseria sicca</i> ATCC 29256	NZ_ACKO02000001.1
<i>Neisseria subflava</i> NJ9703	NZ_ACEO02000001.1
<i>Neisseria wadsworthii</i> 9715	NZ_JH165159.1
<i>Neisseria weaveri</i> LMG 5135	NZ_AFWQ01000001.1
<i>Neptuniibacter caesariensis</i>	NZ.CH724125.1
<i>Nitrobacter</i> Nb 311A	NZ.CH672416.1
<i>Nitrococcus mobilis</i> Nb 231	NZ.CH672427.1
<i>Nitrosococcus oceani</i> AFC27	NZ_DS995300.1
<i>Nitrosopumilus</i> MY1	NZ_AFPU01000001.1
<i>Nocardiodaceae bacterium</i> Broad 1	NZ_GL873260.1
<i>Nodularia spumigena</i> CCY9414	NZ_AAVW01000001.1
<i>Novosphingobium nitrogenifigens</i> DSM 19370	NZ_GL876925.1
<i>Novosphingobium pentaromativorans</i> US6 1	NZ_AGM01000001.1
<i>Oceanibulbus indolifex</i> HEL 45	NZ_ABID01000001.1
<i>Oceanicaulis alexandrii</i> HTCC2633	NZ.CH672428.1
<i>Oceanicola batsensis</i> HTCC2597	NZ.CH724131.1
<i>Oceanicola granulosus</i> HTCC2516	NZ.CH724107.1
<i>Ochrobactrum intermedium</i> LMG 3301	NZ.ACQA01000001.1
<i>Octadecabacter antarcticus</i> 238	NZ_DS990628.1
<i>Octadecabacter antarcticus</i> 307	NZ_DS990574.1
<i>Oenococcus oeni</i> ATCC BAA 1163	NZ_AAUV01000001.1
<i>Oenococcus oeni</i> AWRIB429	NZ.ACSE01000001.1
<i>Olsenella oral taxon</i> 809 F0356	NZ_JH376563.1
<i>Opitutaceae bacterium</i> TAV2	NZ_ABEA02000001.1

<i>Oribacterium ACB1</i>	NZ_JH414495.1
<i>Oribacterium ACB7</i>	NZ_JH414504.1
<i>Oribacterium oral taxon 078 F0262</i>	NZ_GG729933.1
<i>Oribacterium oral taxon 108 F0425</i>	NZ_AFIH01000001.1
<i>Oribacterium sinus F0268</i>	NZ_GG668533.1
<i>Ornithinibacillus TW25</i>	NZ_AEWH01000001.1
<i>Oscillatoria PCC 6506</i>	NZ_CACA01000001.1
<i>Oscillochloris trichoides DG6</i>	NZ_GL501400.1
<i>Oxalobacteraceae bacterium IMCC9480</i>	NZ_AEPR01000001.1
<i>Oxalobacter formigenes HOzBLS</i>	NZ_GG658151.1
<i>Oxalobacter formigenes OXCC13</i>	NZ_GG658170.1
<i>Paenibacillus curdlanolyticus YK9</i>	NZ_AEDD01000001.1
<i>Paenibacillus elgii B69</i>	NZ_AFWH01000001.1
<i>Paenibacillus HGF5</i>	NZ_AEXS01000001.1
<i>Paenibacillus HGF7</i>	NZ_AFDH01000001.1
<i>Paenibacillus lactis 154</i>	NZ_AGIP01000001.1
<i>Paenibacillus larvae B 3650</i>	NZ_ADZY02000001.1
<i>Paenibacillus larvae BRL 230010</i>	NZ_CH981372.1
<i>Paenibacillus oral taxon 786 D14</i>	NZ_GG695970.1
<i>Paenibacillus vortex V453</i>	NZ_ADHJ01000001.1
<i>Pantoea aB</i>	NZ_AEDL01000001.1
<i>Parabacteroides D13</i>	NZ_GG698738.1
<i>Parabacteroides johnsonii DSM 18315</i>	NZ_DS996440.1
<i>Parabacteroides merdae ATCC 43184</i>	NZ_DS264460.1
<i>Parachlamydia acanthamoebae Hall s coccus</i>	NZ_ACZE01000001.1
<i>Paracoccus TRP</i>	NZ_AEPN01000001.1
<i>Paraprevotella clara YIT 11840</i>	NZ_JH376577.1
<i>Paraprevotella zylaniphila YIT 11841</i>	NZ_GL883805.1
<i>Parascardovia denticolens DSM 10105</i>	NZ_CM001148.1
<i>Parascardovia denticolens F0305</i>	NZ_GG770319.1
<i>Parasutterella excrementihominis YIT 11859</i>	NZ_GL883674.1
<i>Parvimonas micra ATCC 33270</i>	NZ_DS483504.1
<i>Parvimonas oral taxon 110 F0139</i>	NZ_AFIH01000001.1
<i>Parvimonas oral taxon 393 F0440</i>	NZ_AFUS01000001.1
<i>Pasteurella dagmatis ATCC 43325</i>	NZ_GG704810.1
<i>Patulibacter I11</i>	NZ_AGUD01000001.1
<i>Pectobacterium carotovorum brasiliensis PBR1692</i>	NZ_ABVX01000001.1
<i>Pectobacterium carotovorum WPP14</i>	NZ_ABVY01000001.1
<i>Pediococcus acidilactici 7 4</i>	NZ_GG730083.1
<i>Pediococcus acidilactici DSM 20284</i>	NZ_GL397067.1
<i>Pedobacter BAL39</i>	NZ_ABCM01000001.1
<i>Pelagibaca bermudensis HTCC2601</i>	NZ_DS022276.1
<i>Peptoniphilus duerdenii ATCC BAA 1640</i>	NZ_GL397071.1
<i>Peptoniphilus harei ACS 146 V Sch2b</i>	NZ_AENP01000001.1
<i>Peptoniphilus indolicus ATCC 29427</i>	NZ_JH165061.1
<i>Peptoniphilus lacrimalis 315 B</i>	NZ_ADDO01000001.1
<i>Peptoniphilus oral taxon 375 F0436</i>	NZ_AFUH01000001.1
<i>Peptoniphilus oral taxon 386 F0131</i>	NZ_GL349422.1
<i>Peptoniphilus oral taxon 836 F0141</i>	NZ_AEAA01000001.1
<i>Peptostreptococcus anaerobius 653 L</i>	NZ_ADJN01000001.1
<i>Peptostreptococcus stomatis DSM 17678</i>	NZ_ADGQ01000001.1
<i>Phaeobacter gallaeciensis 2 10</i>	NZ_DS544874.1
<i>Phaeobacter gallaeciensis BS107</i>	NZ_DS544878.1
<i>Phascolarctobacterium YIT 12067</i>	NZ_GL830843.1
<i>Photobacterium angustum S14</i>	NZ_CH902599.1
<i>Photobacterium damsela CIP 102761</i>	NZ_ADBS01000001.1
<i>Photobacterium leiognathi mandapamensis svers 1 1</i>	NZ_DF093593.1

<i>Photobacterium profundum 3TCK</i>	NZ_CH724134.1
<i>Photobacterium SKA34</i>	NZ_CH724141.1
<i>Planctomyces maris DSM 8797</i>	NZ_ABCE01000001.1
<i>Planococcus donghaensis MPA1U2</i>	NZ_AEPB01000001.1
<i>Plautia stali symbiont</i>	NZ_BABY01000001.1
<i>Plesiocystis pacifica SIR 1</i>	NZ_ABCS01000001.1
<i>Polaribacter irgensii 23 P</i>	NZ_CH724148.1
<i>Polaribacter MED152</i>	NZ_CH902588.1
<i>Porphyromonas asaccharolytica PR426713P I</i>	NZ_AENO01000001.1
<i>Porphyromonas endodontalis ATCC 35406</i>	NZ_ACNN01000001.1
<i>Porphyromonas uenonis 60 3</i>	NZ_ACLR01000001.1
<i>Prevotella amnii CRIS 21A A</i>	NZ_ADFQ01000001.1
<i>Prevotella bergensis DSM 17361</i>	NZ_GG704780.1
<i>Prevotella bivia JCVIHP010</i>	NZ_ADFO01000001.1
<i>Prevotella bryantii B14</i>	NZ_ADWO01000001.1
<i>Prevotella bucae ATCC 33574</i>	NZ_GL586311.1
<i>Prevotella bucae D17</i>	NZ_GG739926.1
<i>Prevotella buccalis ATCC 35310</i>	NZ_ADEG01000001.1
<i>Prevotella C561</i>	NZ_JH114139.1
<i>Prevotella copri DSM 18205</i>	NZ_GG703852.1
<i>Prevotella dentalis DSM 3688</i>	NZ_GL982488.1
<i>Prevotella denticola CRIS 18C A</i>	NZ_AEXO01000001.1
<i>Prevotella disiens FB035 09AN</i>	NZ_AEDO01000001.1
<i>Prevotella histicola F0411</i>	NZ_JH376762.1
<i>Prevotella marshii DSM 16973</i>	NZ_GL397214.1
<i>Prevotella melaninogenica D18</i>	NZ_GG740010.1
<i>Prevotella multiformis DSM 16608</i>	NZ_GL872282.1
<i>Prevotella multisaccharivorax DSM 17128</i>	NZ_GL945015.1
<i>Prevotella nigrescens ATCC 33563</i>	NZ_GL982464.1
<i>Prevotella oralis ATCC 33269</i>	NZ_GL833116.1
<i>Prevotella oral taxon 299 F0039</i>	NZ_GG740056.1
<i>Prevotella oral taxon 302 F0323</i>	NZ_JH376827.1
<i>Prevotella oral taxon 317 F0108</i>	NZ_GG740072.1
<i>Prevotella oral taxon 472 F0295</i>	NZ_GG704824.1
<i>Prevotella oris C735</i>	NZ_GL349564.1
<i>Prevotella oris F0302</i>	NZ_GG703883.1
<i>Prevotella oulorum F0390</i>	NZ_JH114215.1
<i>Prevotella pallens ATCC 700821</i>	NZ_GL982513.1
<i>Prevotella salivae DSM 15606</i>	NZ_GL629647.1
<i>Prevotella stercora DSM 18206</i>	NZ_JH379330.1
<i>Prevotella tanneriae ATCC 51259</i>	NZ_GG700642.1
<i>Prevotella timonensis CRIS 5C B1</i>	NZ_ADEF01000001.1
<i>Prevotella veroralis F0319</i>	NZ_GG698712.1
<i>Prochlorococcus marinus MIT 9202</i>	NZ_DS999537.1
<i>Propionibacterium 409 HC1</i>	NZ_AFIK01000001.1
<i>Propionibacterium 434 HC2</i>	NZ_AFIL01000001.1
<i>Propionibacterium 5 U 42AFAA</i>	NZ_JH376566.1
<i>Propionibacterium acnes J139</i>	NZ_ADFS01000001.1
<i>Propionibacterium acnes J165</i>	NZ_ADJL01000001.1
<i>Propionibacterium acnes SK187</i>	NZ_ADJM01000001.1
<i>Propionibacterium avidum ATCC 25577</i>	NZ_JH165054.1
<i>Propionibacterium CC003 HC2</i>	NZ_AFUK01000001.1
<i>Proteus mirabilis ATCC 29906</i>	NZ_GG668576.1
<i>Proteus penneri ATCC 35198</i>	NZ_GG661994.1
<i>Providencia alcalifaciens DSM 30120</i>	NZ_ABXW01000001.1
<i>Providencia rettgeri DSM 1131</i>	NZ_GG705262.1
<i>Providencia rustigianii DSM 4541</i>	NZ_GG703817.1

<i>Providencia stuartii</i> ATCC 25827	NZ_DS607633.1
<i>Pseudoalteromonas</i> BSi20311	NZ_BADU01000001.1
<i>Pseudoalteromonas</i> BSi20429	NZ_BADV01000001.1
<i>Pseudoalteromonas</i> BSi20439	NZ_BADW01000001.1
<i>Pseudoalteromonas</i> BSi20480	NZ_BADX01000001.1
<i>Pseudoalteromonas</i> BSi20495	NZ_BADY01000001.1
<i>Pseudoalteromonas</i> BSi20652	NZ_BADT01000001.1
<i>Pseudoalteromonas haloplanktis</i> ANT 505	NZ_ADOP01000001.1
<i>Pseudoalteromonas tunicata</i> D2	NZ_CH959301.1
<i>Pseudomonas</i> 2 1 26	NZ_JH376461.1
<i>Pseudomonas aeruginosa</i> 2192	NZ_CH482384.1
<i>Pseudomonas aeruginosa</i> 39016	NZ_CM001020.1
<i>Pseudomonas aeruginosa</i> C3719	NZ_CH482383.1
<i>Pseudomonas aeruginosa</i> PAb1	NZ_ABKZ01000001.1
<i>Pseudomonas aeruginosa</i> PACS2	NZ_AAQW01000001.1
<i>Pseudomonas fluorescens</i> WH6	NZ_CM001025.1
<i>Pseudomonas psychrotolerans</i> L19	NZ_AHBD01000001.1
<i>Pseudomonas savastanoi</i> NCPPB 3335	NZ_GG774590.1
<i>Pseudomonas syringae</i> 642	NZ_ADGB01000001.1
<i>Pseudomonas syringae</i> aesculi 2250	NZ_GG700072.1
<i>Pseudomonas syringae</i> aesculi NCPPB3681	NZ_GG699515.1
<i>Pseudomonas syringae</i> FF5	NZ_GG700436.1
<i>Pseudomonas syringae</i> oryzae 1 6	NZ_DS996945.1
<i>Pseudomonas syringae</i> tabaci ATCC 11528	NZ_GG699444.1
<i>Pseudomonas syringae</i> tomato K40	NZ_ADFY01000001.1
<i>Pseudomonas syringae</i> tomato Maz13	NZ_ADFZ01000001.1
<i>Pseudomonas syringae</i> tomato NCPPB 1108	NZ_ADGA01000001.1
<i>Pseudomonas syringae</i> tomato T1	NZ_ABSM01000001.1
<i>Pseudomonas</i> TJI 51	NZ_AEWE01000001.1
<i>Pseudomonas</i> UK4	NZ_ACOQ01000001.1
<i>Pseudonocardia</i> P1	NZ_ADUJ01000001.1
<i>Pseudoramibacter alactolyticus</i> ATCC 23263	NZ_GL622359.1
<i>Pseudovibrio</i> JE062	NZ_DS996805.1
<i>Psychrobacter</i> 1501 2011	NZ_GL892048.1
<i>Psychroflexus torquis</i> ATCC 700755	NZ_CH959305.1
<i>Psychromonas</i> CNPT3	NZ_CH902574.1
<i>Pyramidobacter piscolens</i> W5455	NZ_ADFP01000001.1
<i>Ralstonia</i> 5 2 56FAA	NZ_JH165001.1
<i>Ralstonia</i> 5 7 47FAA	NZ_GL520217.1
<i>Ralstonia solanacearum</i> UW551	NZ_AAKL01000001.1
<i>Raphidiopsis brookii</i> D9	NZ_ACYB01000001.1
<i>Reinekea blandensis</i> MED297	NZ_CH724149.1
<i>Rheinheimera</i> A13L	NZ_AFHI01000001.1
<i>Rhizobium etli</i> 8C 3	NZ_ABRA01000001.1
<i>Rhizobium etli</i> Brasil 5	NZ_ABQZ01000001.1
<i>Rhizobium etli</i> CIAT 894	NZ_ABRD01000001.1
<i>Rhizobium etli</i> GR56	NZ_ABRB01000001.1
<i>Rhizobium etli</i> IE4771	NZ_ABRC01000001.1
<i>Rhizobium etli</i> Kim 5	NZ_ABQY01000001.1
<i>Rhodanobacter</i> 2APBS1	NZ_AGIL01000001.1
<i>Rhodobacteraceae</i> bacterium KLH11	NZ_DS999531.1
<i>Rhodobacterales</i> bacterium HTCC2083	NZ_DS995276.1
<i>Rhodobacterales</i> bacterium HTCC2150	NZ_AAXZ01000001.1
<i>Rhodobacterales</i> bacterium HTCC2255	NZ_DS022282.1
<i>Rhodobacterales</i> bacterium Y4I	NZ_DS995281.1
<i>Rhodobacter sphaeroides</i> WS8N	NZ_CM001161.1
<i>Rhodobacter</i> SW2	NZ_ACYY01000001.1

<i>Rhodococcus equi</i> ATCC 33707	NZ_CM001149.1
<i>Rhodococcus erythropolis</i> SK121	NZ_ACNO01000001.1
<i>Rhodococcus pyridinivorans</i> AK37	NZ_AHBW01000001.1
<i>Rickettsia endosymbiont of Izodes scapularis</i>	NZ_CM000770.1
<i>Rickettsia sibirica</i> 246	NZ_AABW01000001.1
<i>Rickettsiella grylli</i>	NZ_AAQJ02000001.1
<i>Roseburia intestinalis</i> L1 82	NZ_GG692713.1
<i>Roseburia inulinivorans</i> DSM 16841	NZ_ACFY01000001.1
<i>Roseibium</i> TrichSKD4	NZ_GL476300.1
<i>Roseobacter</i> AzwK 3b	NZ_ABCR01000001.1
<i>Roseobacter</i> CCS2	NZ_AAYB01000001.1
<i>Roseobacter</i> GAI101	NZ_DS999213.1
<i>Roseobacter</i> MED193	NZ_CH902583.1
<i>Roseobacter</i> SK209 2 6	NZ_AAYC01000001.1
<i>Roseomonas cervicalis</i> ATCC 49957	NZ_GG770777.1
<i>Roseovarius</i> 217	NZ_CH902584.1
<i>Roseovarius nubinhibens</i> ISM	NZ_CH724156.1
<i>Roseovarius</i> TM1035	NZ_ABCL01000001.1
<i>Rothia dentocariosa</i> M567	NZ_GL379574.1
<i>Rothia mucilaginosa</i> ATCC 25296	NZ_ACVO01000001.1
<i>Rubrivivax benzoatilyticus</i> JA2	NZ_AEWG01000001.1
<i>Ruegeria</i> R11	NZ_DS999054.1
<i>Ruegeria</i> TW15	NZ_AEYW01000001.1
<i>Ruminococcaceae bacterium</i> D16	NZ_GL890784.1
<i>Ruminococcus</i> 5 1 39BFAA	NZ_GG696045.1
<i>Ruminococcus albus</i> 8	NZ_ADKM02000001.1
<i>Ruminococcus flavefaciens</i> FD 1	NZ_ACOK01000001.1
<i>Ruminococcus gnavus</i> ATCC 29149	NZ_AAYG02000001.1
<i>Ruminococcus lactaris</i> ATCC 29176	NZ_DS990163.1
<i>Ruminococcus obeum</i> ATCC 29174	NZ_DS264289.1
<i>Ruminococcus torques</i> ATCC 27756	NZ_DS264343.1
<i>Saccharomonospora azurea</i> NA 128	NZ_AGIU01000001.1
<i>Saccharomonospora paurometabolica</i> YIM 90007	NZ_AGIT01000001.1
<i>Saccharopolyspora erythraea</i> NRRL 2338	NZ_ABFV01000001.1
<i>Saccharopolyspora spinosa</i> NRRL 18395	NZ_GL877878.1
<i>Sagittula stellata</i> E 37	NZ_AAYA01000001.1
<i>Salinisphaera shabanensis</i> E1L3A	NZ_AFNV01000001.1
<i>Salmonella enterica</i> serovar 4 5 12 i CVM23701	NZ_ABAO01000001.3
<i>Salmonella enterica</i> serovar Hadar RI 05P066	NZ_ABFG01000001.1
<i>Salmonella enterica</i> serovar Heidelberg SL486	NZ_ABEL01000001.1
<i>Salmonella enterica</i> serovar Javiana GA MM04042433	NZ_ABEH02000001.1
<i>Salmonella enterica</i> serovar Kentucky CDC 191	NZ_ABEI01000001.1
<i>Salmonella enterica</i> serovar Kentucky CVM29188	NZ_ABAK02000001.1
<i>Salmonella enterica</i> serovar Newport SL317	NZ_ABEW01000001.1
<i>Salmonella enterica</i> serovar Saintpaul SARA23	NZ_ABAM02000001.1
<i>Salmonella enterica</i> serovar Saintpaul SARA29	NZ_ABAN01000001.3
<i>Salmonella enterica</i> serovar Schwarzengrund SL480	NZ_ABEJ01000001.1
<i>Salmonella enterica</i> serovar Tennessee CDC07 0191	NZ_ACBF01000001.1
<i>Salmonella enterica</i> serovar Virchow SL491	NZ_ABFH02000001.1
<i>Salmonella enterica</i> serovar Weltevreden HI N05 537	NZ_ABFF01000001.1
<i>SAR 116 cluster alpha proteobacterium</i> HIMB100	NZ_AFXB01000001.1
<i>Scardovia inopinata</i> F0304	NZ_GG770225.1
<i>Segniliparus rugosus</i> ATCC BAA 974	NZ_GL622754.1
<i>Selenomonas artemidis</i> F0399	NZ_GL638127.1
<i>Selenomonas flueggei</i> ATCC 43531	NZ_GG694006.1
<i>Selenomonas infelix</i> ATCC 43532	NZ_JH376797.1
<i>Selenomonas nozia</i> ATCC 43541	NZ_GG749278.1

<i>Selenomonas oral</i> taxon 137 F0430	NZ_AENV01000001.1
<i>Selenomonas oral</i> taxon 149 67H29BP	NZ_GL397087.1
<i>Selenomonas sputigena</i> ATCC 35185	NZ_GG698596.1
<i>Serratia odorifera</i> 4Rx13	NZ_ADBX01000001.1
<i>Serratia odorifera</i> DSM 4582	NZ_GG753567.1
<i>Serratia symbiotica</i> Tucson	NZ_GL636097.1
<i>Shewanella baltica</i> OS183	NZ_AECY01000001.1
<i>Shewanella benthica</i> KT99	NZ_ABIC01000001.1
<i>Shewanella</i> HN 41	NZ_AFOZ01000001.1
<i>Shigella</i> D9	NZ_GG657384.1
<i>Shigella dysenteriae</i> 1012	NZ_AAMJ02000001.1
<i>Shigella dysenteriae</i> 1617	NZ_ADUT01000001.1
<i>Shuttleworthia satellites</i> DSM 14600	NZ_GG665866.1
<i>Silicibacter lacuscaerulensis</i> ITI 1157	NZ_GG704595.1
<i>Silicibacter</i> TrichCH4B	NZ_GG703514.1
<i>Simonsiella muelleri</i> ATCC 29453	NZ_GG770234.1
<i>Slackia exigua</i> ATCC 700122	NZ_GG700630.1
<i>Solobacterium moorei</i> F0204	NZ_GL637642.1
<i>Sphingobacterium spiritivorum</i> ATCC 33300	NZ_GG668630.1
<i>Sphingobacterium spiritivorum</i> ATCC 33861	NZ_GL379770.1
<i>Sphingomonas</i> KC8	NZ_AFMF01000001.1
<i>Sphingomonas</i> S17	NZ_AFGG01000001.1
<i>Sphingomonas</i> SKA58	NZ_CH959306.1
<i>Spiroplasma melliferum</i> KC3	NZ_AGBZ01000001.1
<i>Sporosarcina newyorkensis</i>	NZ_GL982997.1
<i>Staphylococcus aureus</i> 132	NZ_ACOT01000001.1
<i>Staphylococcus aureus</i> 55 2053	NZ_GG700533.1
<i>Staphylococcus aureus</i> 58 424	NZ_GG749054.1
<i>Staphylococcus aureus</i> 65 1322	NZ_GG700559.1
<i>Staphylococcus aureus</i> 68 397	NZ_GG700574.1
<i>Staphylococcus aureus</i> 930918 3	NZ_ABFA01000001.1
<i>Staphylococcus aureus</i> A017934 97	NZ_GG731495.1
<i>Staphylococcus aureus</i> A10102	NZ_ACSO01000001.1
<i>Staphylococcus aureus</i> A5937	NZ_ACKC01000001.1
<i>Staphylococcus aureus</i> A5948	NZ_ACKD01000001.1
<i>Staphylococcus aureus</i> A6224	NZ_ACKE01000001.1
<i>Staphylococcus aureus</i> A6300	NZ_ACKF01000001.1
<i>Staphylococcus aureus</i> A8115	NZ_ACKG01000001.1
<i>Staphylococcus aureus</i> A8117	NZ_ACYO01000001.1
<i>Staphylococcus aureus</i> A8796	NZ_ADJJ01000001.1
<i>Staphylococcus aureus</i> A8819	NZ_ADJK01000001.1
<i>Staphylococcus aureus</i> A9299	NZ_ACKH01000001.1
<i>Staphylococcus aureus</i> A9635	NZ_ACKI01000001.1
<i>Staphylococcus aureus</i> A9719	NZ_ACKJ01000001.1
<i>Staphylococcus aureus</i> A9754	NZ_ADJI01000001.1
<i>Staphylococcus aureus</i> A9763	NZ_ACKK01000001.1
<i>Staphylococcus aureus</i> A9765	NZ_ACSN01000001.1
<i>Staphylococcus aureus</i> A9781	NZ_ACKL01000001.1
<i>Staphylococcus aureus</i> ATCC 51811	NZ_GG774480.1
<i>Staphylococcus aureus</i> ATCC BAA 39	NZ_GL397103.1
<i>Staphylococcus aureus</i> Btn1260	NZ_GG730256.1
<i>Staphylococcus aureus</i> C101	NZ_GG730120.1
<i>Staphylococcus aureus</i> C160	NZ_GG730273.1
<i>Staphylococcus aureus</i> C427	NZ_GG730141.1
<i>Staphylococcus aureus</i> CF Marseille	NZ_CABA01000001.1
<i>Staphylococcus aureus</i> D139	NZ_GG730159.1
<i>Staphylococcus aureus</i> D30	NZ_ABF01000001.1

<i>Staphylococcus aureus E1410</i>	NZ_GG700597.1
<i>Staphylococcus aureus EMRSA16</i>	NZ_GG770513.1
<i>Staphylococcus aureus H19</i>	NZ_GG730335.1
<i>Staphylococcus aureus JKD6009</i>	NZ_ABSA01000001.1
<i>Staphylococcus aureus M1015</i>	NZ_GG748996.1
<i>Staphylococcus aureus M809</i>	NZ_GG749299.1
<i>Staphylococcus aureus M876</i>	NZ_GG700614.1
<i>Staphylococcus aureus M899</i>	NZ_GG730190.1
<i>Staphylococcus aureus MN8</i>	NZ_CM000952.1
<i>Staphylococcus aureus MR1</i>	NZ_ACZQ01000001.1
<i>Staphylococcus aureus Mu50 omega</i>	NZ_BABM01000001.1
<i>Staphylococcus aureus TCH130</i>	NZ_GG698158.1
<i>Staphylococcus aureus TCH70</i>	NZ_GL538356.1
<i>Staphylococcus aureus USA300 TCH959</i>	NZ_GG697985.1
<i>Staphylococcus aureus WBG10049</i>	NZ_GG730208.1
<i>Staphylococcus aureus WW2703 97</i>	NZ_GG730220.1
<i>Staphylococcus capitis SK14</i>	NZ_ACFR01000001.1
<i>Staphylococcus caprae C87</i>	NZ_GL545267.1
<i>Staphylococcus epidermidis BCM HMP0060</i>	NZ_GG696727.1
<i>Staphylococcus epidermidis M23864 W1</i>	NZ_GG696773.1
<i>Staphylococcus epidermidis M23864 W2 grey</i>	NZ_GG749255.1
<i>Staphylococcus epidermidis SK135</i>	NZ_ADEY01000001.1
<i>Staphylococcus epidermidis W23144</i>	NZ_GG696799.1
<i>Staphylococcus hominis C80</i>	NZ_GL545252.1
<i>Staphylococcus hominis SK119</i>	NZ_ACLP01000001.1
<i>Staphylococcus lugdunensis M23590</i>	NZ_GL622351.1
<i>Staphylococcus simiae CCM 7213</i>	NZ_AEUN01000001.1
<i>Staphylococcus warneri L37603</i>	NZ_ACPZ01000001.1
<i>Stenotrophomonas SKA14</i>	NZ_DS999412.1
<i>Stigmatella aurantiaca DW4 3 1</i>	NZ_AAMD01000001.1
<i>Streptococcus 2 1 36FAA</i>	NZ_GG704939.1
<i>Streptococcus agalactiae 18RS21</i>	NZ_AAJO01000001.1
<i>Streptococcus agalactiae 515</i>	NZ_AAJP01000001.1
<i>Streptococcus agalactiae ATCC 13813</i>	NZ_AEQQ01000001.1
<i>Streptococcus agalactiae CJB111</i>	NZ_AAJQ01000001.1
<i>Streptococcus agalactiae COH1</i>	NZ_AAJR01000001.1
<i>Streptococcus agalactiae H36B</i>	NZ_AAJS01000001.1
<i>Streptococcus anginosus 1 2 62CV</i>	NZ_GL636615.1
<i>Streptococcus anginosus F0211</i>	NZ_AECT01000001.1
<i>Streptococcus anginosus SK52</i>	NZ_AFIM01000001.1
<i>Streptococcus australis ATCC 700641</i>	NZ_GL636091.1
<i>Streptococcus bovis ATCC 700338</i>	NZ_GL397128.1
<i>Streptococcus C150</i>	NZ_GL698449.1
<i>Streptococcus C300</i>	NZ_GL732466.1
<i>Streptococcus constellatus pharyngis SK1060</i>	NZ_AFUP01000001.1
<i>Streptococcus criceti</i>	NZ_AEUV02000001.1
<i>Streptococcus cristatus ATCC 51100</i>	NZ_GL732518.1
<i>Streptococcus downei F0415</i>	NZ_AEKN01000001.1
<i>Streptococcus equinus ATCC 9812</i>	NZ_GL698429.1
<i>Streptococcus gallolyticus TX20005</i>	NZ_GL397173.1
<i>Streptococcus ictaluri 707 05</i>	NZ_AEUX02000001.1
<i>Streptococcus infantarius ATCC BAA 102</i>	NZ_DS572674.1
<i>Streptococcus infantis ATCC 700779</i>	NZ_GL732439.1
<i>Streptococcus infantis SK1076</i>	NZ_AFNN01000001.1
<i>Streptococcus infantis SK1302</i>	NZ_AEDY01000001.1
<i>Streptococcus M143</i>	NZ_GG730092.1
<i>Streptococcus M334</i>	NZ_GL732486.1

<i>Streptococcus macacae</i> NCTC 11558	NZ_AEUW02000001.1
<i>Streptococcus mitis</i> ATCC 6249	NZ_GL397179.1
<i>Streptococcus mitis</i> NCTC 12261	NZ_AEDX01000001.1
<i>Streptococcus mitis</i> SK321	NZ_AEDT01000001.1
<i>Streptococcus mitis</i> SK564	NZ_AEDU01000001.1
<i>Streptococcus mitis</i> SK597	NZ_AEDV01000001.1
<i>Streptococcus oralis</i> ATCC 35037	NZ_AEDW01000001.1
<i>Streptococcus oralis</i>	NZ_GG749268.1
<i>Streptococcus oral</i> taxon 056 F0418	NZ_AFQU01000001.1
<i>Streptococcus oral</i> taxon 058 F0407	NZ_JH378872.1
<i>Streptococcus oral</i> taxon 071 73H25AP	NZ_GL397254.1
<i>Streptococcus parasanguinis</i> ATCC 903	NZ_GL732449.1
<i>Streptococcus parasanguinis</i> F0405	NZ_AEKM01000001.1
<i>Streptococcus parauberis</i> NCFD 2020	NZ_AEUT02000001.1
<i>Streptococcus peroris</i> ATCC 700780	NZ_GL732463.1
<i>Streptococcus pneumoniae</i> BS397	NZ_ABWC01000001.1
<i>Streptococcus pneumoniae</i> BS455	NZ_ADHN01000001.1
<i>Streptococcus pneumoniae</i> BS457	NZ_ABWB01000001.1
<i>Streptococcus pneumoniae</i> BS458	NZ_ABWA01000001.1
<i>Streptococcus pneumoniae</i> Canada MDR 19A	NZ_ACNU01000001.1
<i>Streptococcus pneumoniae</i> Canada MDR 19F	NZ_ACNV01000001.1
<i>Streptococcus pneumoniae</i> CCRI 1974M2	NZ_ABZT01000001.1
<i>Streptococcus pneumoniae</i> CCRI 1974	NZ_ABZC01000001.1
<i>Streptococcus pneumoniae</i> CDC0288 04	NZ_ABGF01000001.1
<i>Streptococcus pneumoniae</i> CDC1087 00	NZ_ABFT01000001.1
<i>Streptococcus pneumoniae</i> CDC1873 00	NZ_ABFS01000001.1
<i>Streptococcus pneumoniae</i> CDC3059 06	NZ_ABGG01000001.1
<i>Streptococcus pneumoniae</i> MLV 016	NZ_ABGH01000001.1
<i>Streptococcus pneumoniae</i> SP11 BS70	NZ_ABAC01000001.1
<i>Streptococcus pneumoniae</i> SP14 BS292	NZ_ABWQ01000001.1
<i>Streptococcus pneumoniae</i> SP14 BS69	NZ_ABAD01000001.1
<i>Streptococcus pneumoniae</i> SP18 BS74	NZ_ABAE01000001.1
<i>Streptococcus pneumoniae</i> SP195	NZ_ABGE01000001.1
<i>Streptococcus pneumoniae</i> SP19 BS75	NZ_ABAF01000001.1
<i>Streptococcus pneumoniae</i> SP23 BS72	NZ_ABAG01000001.1
<i>Streptococcus pneumoniae</i> SP3 BS71	NZ_AAZZ01000001.1
<i>Streptococcus pneumoniae</i> SP6 BS73	NZ_ABAA01000001.1
<i>Streptococcus pneumoniae</i> SP9 BS68	NZ_ABAB01000001.1
<i>Streptococcus pneumoniae</i> SP9v BS293	NZ_ABWU01000001.1
<i>Streptococcus pneumoniae</i> TIGR4	NZ_AAGY02000001.1
<i>Streptococcus porcinus</i> Jelinkova 176	NZ_AEUU02000001.1
<i>Streptococcus pseudoporcinus</i> SPIN 20026	NZ_AENS01000001.1
<i>Streptococcus pyogenes</i> ATCC 10782	NZ_GL397225.1
<i>Streptococcus pyogenes</i> M49 591	NZ_AAFV01000001.1
<i>Streptococcus salivarius</i> SK126	NZ_ACLO01000001.1
<i>Streptococcus sanguinis</i> ATCC 49296	NZ_GL622183.1
<i>Streptococcus sanguinis</i> VMC66	NZ_GL831107.1
<i>Streptococcus suis</i> 05HAH33	NZ_AARD01000001.1
<i>Streptococcus suis</i> 89 1591	NZ_AAFA03000001.1
<i>Streptococcus urinalis</i> 2285 97	NZ_AEUZ02000001.1
<i>Streptococcus vestibularis</i> ATCC 49124	NZ_GL831112.1
<i>Streptococcus vestibularis</i> F0396	NZ_AEKO01000001.1
<i>Streptomyces</i> AA4	NZ_GG657746.1
<i>Streptomyces</i> ACT 1	NZ_GL877172.1
<i>Streptomyces albus</i> J1074	NZ_DS999645.1
<i>Streptomyces clavuligerus</i> ATCC 27064	NZ_CM000913.1
<i>Streptomyces clavuligerus</i> ATCC 27064	NZ_DS570624.1

<i>Streptomyces clavuligerus</i> ATCC 27064	NZ_CM001015.1
<i>Streptomyces C</i>	NZ_GG657750.1
<i>Streptomyces c14</i>	NZ_GG753626.1
<i>Streptomyces ghanaensis</i> ATCC 14672	NZ_DS999641.1
<i>Streptomyces griseoaurantiacus</i> M045	NZ_AEYX01000001.1
<i>Streptomyces griseoflavus</i> Tu4000	NZ_GG657758.1
<i>Streptomyces hygroscopicus</i> ATCC 53653	NZ_GG657754.1
<i>Streptomyces lividans</i> TK24	NZ_GG657756.1
<i>Streptomyces Mg1</i>	NZ_DS570384.1
<i>Streptomyces pristinaespiralis</i> ATCC 25486	NZ_CM000950.1
<i>Streptomyces roseosporus</i> NRRL 11379	NZ_DS999647.1
<i>Streptomyces roseosporus</i> NRRL 15998	NZ_DS999644.1
<i>Streptomyces S4</i>	NZ_FR873693.1
<i>Streptomyces SA3 actF</i>	NZ_ADXB01000001.1
<i>Streptomyces SA3 actG</i>	NZ_ADXA01000001.1
<i>Streptomyces SPB74</i>	NZ_GG770539.1
<i>Streptomyces SPB78</i>	NZ_GG657742.1
<i>Streptomyces sviveus</i> ATCC 29083	NZ_CM000951.1
<i>Streptomyces Tu6071</i>	NZ_CM001165.1
<i>Streptomyces viridochromogenes</i> DSM 40736	NZ_GG657757.1
<i>Streptomyces W007</i>	NZ_AGSW01000001.1
<i>Streptomyces zinciresistens</i> K42	NZ_AGBF01000001.1
<i>Subdoligranulum 4 3 54A2FAA</i>	NZ_JH414698.1
<i>Subdoligranulum variabile</i> DSM 15176	NZ_GG704769.1
<i>Succinatimonas hippei</i> YIT 12066	NZ_GL830939.1
<i>Sulfitobacter EE 36</i>	NZ_CH959310.1
<i>Sulfitobacter NAS 14 1</i>	NZ_CH959312.1
<i>Sulfolobus solfataricus</i> 98 2	NZ_ACUK01000001.1
<i>Sulfurihydrogenibium yellowstonense</i> SS 5	NZ_ABZS01000001.1
<i>Sutterella wadsworthensis</i> 3 1 45B	NZ_GL636540.1
<i>Synechococcus BL107</i>	NZ_DS022298.1
<i>Synechococcus CB0101</i>	NZ_ADXL01000001.1
<i>Synechococcus CB0205</i>	NZ_ADXM01000001.1
<i>Synechococcus PCC 7335</i>	NZ_DS989904.1
<i>Synechococcus RS9916</i>	NZ_DS022299.1
<i>Synechococcus RS9917</i>	NZ_CH724158.1
<i>Synechococcus WH 5701</i>	NZ_CH724159.1
<i>Synechococcus WH 7805</i>	NZ_CH724168.1
<i>Synechococcus WH 8016</i>	NZ_AGIK01000001.1
<i>Synechococcus WH 8109</i>	NZ_GG704594.1
<i>Synergistes 3 1 syn1</i>	NZ_JH414690.1
<i>Tannerella 6 1 58FAA CT1</i>	NZ_JH414766.1
<i>Thalassibium R2A62</i>	NZ_GG697169.2
<i>Thermaerobacter subterraneus</i> DSM 13965	NZ_AENY01000001.1
<i>Thermaerovibrio velox</i> DSM 12556	NZ_CM001377.1
<i>Thermoanaerobacter ethanolicus</i> CCSD1	NZ_ACXY01000001.1
<i>Thermoanaerobacter ethanolicus</i> JW 200	NZ_AEYS01000001.1
<i>Thermoanaerobacter X561</i>	NZ_ACXP02000001.1
<i>Thermobacillus composti</i> KWC4	NZ_AGFE01000001.1
<i>Thermosinus carboxydivorans</i> Nor1	NZ_AAWL01000001.1
<i>Thermotogales bacterium mesG1 Ag 4 2</i>	NZ_AEDC01000001.1
<i>Thermus aquaticus</i> Y51MC23	NZ_ABVK02000001.1
<i>Thioalkalimicrobium aerophilum</i> AL3	NZ_AGFA01000001.1
<i>Thioalkalivibrio thiocyanoxidans</i> ARh 4	NZ_AGFB01000001.1
<i>Thiocapsa marina</i> 5811	NZ_AFWV01000001.1
<i>Thiocystis violascens</i> DSM 198	NZ_AGFC01000001.1
<i>Thiorhodococcus drewsii</i> AZ1	NZ_AFWT01000001.1

<i>Thiorhodospira sibirica</i> ATCC 700588	NZ_AGFD01000001.1
<i>Thiorhodovibrio</i> 970	NZ_AFWS01000001.1
<i>Treponema phagedenis</i> F0421	NZ_GL637955.1
<i>Treponema vincentii</i> ATCC 35580	NZ_ACYH01000001.1
<i>Turicibacter</i> HGF1	NZ_AEXQ01000001.1
<i>Turicibacter</i> PC909	NZ_ADMN01000001.1
unidentified eubacterium SCB49	NZ_ABCO01000001.1
<i>Ureaplasma parvum</i> serovar 14 ATCC 33697	NZ_ABER01000001.1
<i>Ureaplasma parvum</i> serovar 1 ATCC 27813	NZ_ABES01000001.1
<i>Ureaplasma parvum</i> serovar 6 ATCC 27818	NZ_AAQZ01000001.1
<i>Ureaplasma urealyticum</i> serovar 11 ATCC 33695	NZ_AAZS01000001.1
<i>Ureaplasma urealyticum</i> serovar 12 ATCC 33696	NZ_AAZT01000001.1
<i>Ureaplasma urealyticum</i> serovar 13 ATCC 33698	NZ_ABEV01000001.1
<i>Ureaplasma urealyticum</i> serovar 2 ATCC 27814	NZ_ABFL02000001.1
<i>Ureaplasma urealyticum</i> serovar 4 ATCC 27816	NZ_AAYO02000001.1
<i>Ureaplasma urealyticum</i> serovar 5 ATCC 27817	NZ_AAZR01000001.1
<i>Ureaplasma urealyticum</i> serovar 7 ATCC 27819	NZ_AAYP01000001.1
<i>Ureaplasma urealyticum</i> serovar 8 ATCC 27618	NZ_AAYN02000001.1
<i>Ureaplasma urealyticum</i> serovar 9 ATCC 33175	NZ_AAYQ02000001.1
<i>Veillonella</i> 3 1 44	NZ_GG770199.1
<i>Veillonella</i> 6 1 27	NZ_GG770215.1
<i>Veillonella atypica</i> ACS 049 V Sch6	NZ_AEDR01000001.1
<i>Veillonella atypica</i> ACS 134 V Col7a	NZ_AEDS01000001.1
<i>Veillonella dispar</i> ATCC 17748	NZ_GG667604.1
<i>Veillonella oral</i> taxon 158 F0412	NZ_AENU01000001.1
<i>Veillonella oral</i> taxon 780 F0422	NZ_AFUJ01000001.1
<i>Veillonella parvula</i> ATCC 17745	NZ_ADFU01000001.1
<i>Verminephrobacter</i> At4	NZ_AFAL01000001.1
<i>Verrucomicrobiae</i> bacterium DG1235	NZ_DS990592.1
<i>Verrucomicrobium spinosum</i> DSM 4136	NZ_ABIZ01000001.1
<i>Vibrio alginolyticus</i> 12G01	NZ_CH902589.1
<i>Vibrio alginolyticus</i> 40B	NZ_ACZB01000001.1
<i>Vibrio</i> AND4	NZ_ABGR01000001.1
<i>Vibrio brasiliensis</i> LMG 20546	NZ_AEVS01000001.1
<i>Vibrio caribbenthicus</i> ATCC BAA 2122	NZ_AEIU01000001.1
<i>Vibrio cholerae</i> 12129 1	NZ_ACFQ01000001.1
<i>Vibrio cholerae</i> 1587	NZ_AAUR01000001.1
<i>Vibrio cholerae</i> 2740 80	NZ_AAUT01000001.1
<i>Vibrio cholerae</i> 623 39	NZ_DS178239.1
<i>Vibrio cholerae</i> AM 19226	NZ_DS265224.1
<i>Vibrio cholerae</i> B33	NZ_DS178044.1
<i>Vibrio cholerae</i> B33	NZ_ACHZ01000001.1
<i>Vibrio cholerae</i> bv albensis VL426	NZ_ACHV01000001.1
<i>Vibrio cholerae</i> BX 330286	NZ_ACIA01000001.1
<i>Vibrio cholerae</i> CIRS101	NZ_ACVW01000001.1
<i>Vibrio cholerae</i> CT 5369 93	NZ_ADAL01000001.1
<i>Vibrio cholerae</i> INDRE 91 1	NZ_ADAK01000001.1
<i>Vibrio cholerae</i> MAK 757	NZ_GG774578.1
<i>Vibrio cholerae</i> MO10	NZ_DS990136.1
<i>Vibrio cholerae</i> MZO 2	NZ_DS178165.1
<i>Vibrio cholerae</i> MZO 3	NZ_AAUU01000001.1
<i>Vibrio cholerae</i> NCTC 8457	NZ_DS177946.1
<i>Vibrio cholerae</i> RC27	NZ_ADAI01000001.1
<i>Vibrio cholerae</i> RC385	NZ_GG774555.1
<i>Vibrio cholerae</i> RC9	NZ_ACHX01000001.1
<i>Vibrio cholerae</i> TM 11079 80	NZ_ACHW01000001.1
<i>Vibrio cholerae</i> TMA 21	NZ_ACHY01000001.1

<i>Vibrio cholerae</i> V51	NZ_DS179714.1
<i>Vibrio cholerae</i> V52	NZ_AAKJ02000001.1
<i>Vibrio coralliilyticus</i> ATCC BAA 450	NZ_ACZN01000001.1
<i>Vibrio</i> Ex25	NZ_DS267808.1
<i>Vibrio furnissii</i> CIP 102972	NZ_ACZP01000001.1
<i>Vibrio harveyi</i> 1DA3	NZ_ACZC01000001.1
<i>Vibrio harveyi</i> HY01	NZ_DS179404.1
<i>Vibrio ichthyenteri</i> ATCC 700023	NZ_AFWF01000001.1
<i>Vibrio</i> MED222	NZ_CH902606.1
<i>Vibrio metschnikovii</i> CIP 69 14	NZ_ACZO01000001.1
<i>Vibrio mimicus</i> MB 451	NZ_ADAF01000001.1
<i>Vibrio mimicus</i> VM223	NZ_ADAJ01000001.1
<i>Vibrio mimicus</i> VM573	NZ_ACYV01000001.1
<i>Vibrio mimicus</i> VM603	NZ_ACYU01000001.1
<i>Vibrio</i> N418	NZ_AFWD01000001.1
<i>Vibrionales bacterium</i> SWAT 3	NZ_AAZW01000001.1
<i>Vibrio nigripulchritudo</i> ATCC 27043	NZ_AFWJ01000001.1
<i>Vibrio ordalii</i> ATCC 33509	NZ_AEZX01000001.1
<i>Vibrio orientalis</i> CIP 102891	NZ_ACZV01000001.1
<i>Vibrio parahaemolyticus</i> 16	NZ_DS999325.1
<i>Vibrio parahaemolyticus</i> AN 5034	NZ_ACF001000001.1
<i>Vibrio parahaemolyticus</i> AQ3810	NZ_DS179898.1
<i>Vibrio parahaemolyticus</i> AQ4037	NZ_ACFN01000001.1
<i>Vibrio parahaemolyticus</i> K5030	NZ_ACKB01000001.1
<i>Vibrio parahaemolyticus</i> Peru 466	NZ_ACFM01000001.1
<i>Vibrio</i> RC341	NZ_ACZT01000001.1
<i>Vibrio</i> RC586	NZ_ADBD01000001.1
<i>Vibrio rotiferianus</i> DAT722	NZ_AFAJ01000001.1
<i>Vibrio scophthalmi</i> LMG 19158	NZ_AFWE01000001.1
<i>Vibrio shilonii</i> AK1	NZ_ABCH01000001.1
<i>Vibrio sinaloensis</i> DSM 21326	NZ_AEVT01000001.1
<i>Vibrio splendidus</i> 12B01	NZ_CH724170.1
<i>Vibrio tubiashii</i> ATCC 19109	NZ_AFWI01000001.1
<i>Victivallis vadensis</i> ATCC BAA 548	NZ_ABDE02000001.1
<i>Weissella cibaria</i> KACC 11862	NZ_AEKT01000001.1
<i>Weissella paramesenteroides</i> ATCC 33313	NZ_GG697128.1
<i>Wolbachia endosymbiont of Culex quinquefasciatus</i> JHB	NZ_DS996929.1
<i>Wolbachia endosymbiont of Drosophila ananassae</i>	NZ_AAGB01000001.1
<i>Wolbachia endosymbiont of Drosophila simulans</i>	NZ_AAGC01000001.1
<i>Wolbachia endosymbiont of Drosophila willistoni</i> TSC 14030 0811 24	NZ_CH899776.1
<i>Wolbachia endosymbiont of Muscidifurax uniraptor</i>	NZ_ACFP01000001.1
<i>Wolbachia endosymbiont wVitB of Nasonia vitripennis</i>	NZ_GL883616.1
<i>Xanthomonas campestris musacearum</i> NCPPB4381	NZ_GG699329.1
<i>Xanthomonas campestris vasculorum</i> NCPPB702	NZ_GG699232.1
<i>Xanthomonas fuscans aurantifolii</i> ICPB 10535	NZ_ACPY01000001.1
<i>Xanthomonas fuscans aurantifolii</i> ICPB 11122	NZ_ACPX01000001.1
<i>Xanthomonas gardneri</i> ATCC 19865	NZ_AEQX01000001.1
<i>Xanthomonas perforans</i> 91 118	NZ_AEQW01000001.1
<i>Xanthomonas vesicatoria</i> ATCC 35937	NZ_AEQV01000001.1
<i>Xylella fastidiosa</i> Dixon	NZ_AAAL02000001.1
<i>Xylella fastidiosa sandyi</i> Ann 1	NZ_AAAM03000001.1
<i>Yersinia aldovae</i> ATCC 35236	NZ_ACCB01000001.1
<i>Yersinia bercovieri</i> ATCC 43970	NZ_AALC02000001.1
<i>Yersinia frederiksenii</i> ATCC 33641	NZ_AALE02000001.1
<i>Yersinia intermedia</i> ATCC 29909	NZ_AALF02000001.1
<i>Yersinia kristensenii</i> ATCC 33638	NZ_ACCA01000001.1
<i>Yersinia mollaretii</i> ATCC 43969	NZ_AALD02000001.1

<i>Yersinia pestis</i> biovar Antiqua B42003004	NZ_AAYU01000001.1
<i>Yersinia pestis</i> biovar Antiqua E1979001	NZ_AAYV01000001.1
<i>Yersinia pestis</i> biovar Antiqua UG05 0454	NZ_AAYR01000001.1
<i>Yersinia pestis</i> biovar Mediaevalis K1973002	NZ_AAYT01000001.1
<i>Yersinia pestis</i> biovar Orientalis F1991016	NZ_ABAT01000001.1
<i>Yersinia pestis</i> biovar Orientalis India 195	NZ_ACNR01000001.1
<i>Yersinia pestis</i> biovar Orientalis IP275	NZ_AAOS02000001.1
<i>Yersinia pestis</i> biovar Orientalis MG05 1020	NZ_AAYS01000001.1
<i>Yersinia pestis</i> biovar Orientalis PEXU2	NZ_ACNS01000001.1
<i>Yersinia pestis</i> CA88 4125	NZ_ABCD01000001.1
<i>Yersinia pestis</i> FV 1	NZ_AAUB01000001.1
<i>Yersinia pestis</i> KIM D27	NZ_ADDC01000001.1
<i>Yersinia pestis</i> Nepal516	NZ_ACNQ01000001.1
<i>Yersinia pestis</i> Pestoides A	NZ_ACNT01000001.1
<i>Yersinia rohdei</i> ATCC 43380	NZ_ACCD01000001.1
<i>Yersinia ruckeri</i> ATCC 29473	NZ_ACCC01000001.1
<i>Yokenella regensburgei</i> ATCC 43003	NZ_JH417859.1
