

**Table A.1** GenBank accession numbers of all components of the 312 genomes examined in this study, including the date when the data was stored in GenBank. The FASTA abbreviation field is the species identifier that precedes each sequence identifier in multiple sequence alignments. Genomes are listed in alphabetical order with phylogenetic group indicated in parentheses. Abbreviations: WGS, Whole Genome Shotgun.

### Euryarchaeota

#### *Archaeoglobus fulgidus*

Status: Complete

NBCI TaxID: 224325

FASTA Abbreviation: arAful\_

Accession	Date
NC_000917	1997-12-17

#### *Ferroplasma acidarmanus*

Status: Draft

NBCI TaxID: 333146

FASTA Abbreviation: arFaci\_

Accession	Date	Description
NZ_AABC00000000	2005-07-06	WGS

#### *Haloarcula marismortui ATCC 43049*

Status: Complete

NBCI TaxID: 272569

FASTA Abbreviation: arHmarA

Accession	Date	Description
NC_006389	2004-11-04	plasmid pNG100
NC_006390	2004-11-04	plasmid pNG200
NC_006391	2004-11-04	plasmid pNG300
NC_006392	2004-11-04	plasmid pNG400
NC_006393	2004-11-04	plasmid pNG500
NC_006394	2004-11-04	plasmid pNG600
NC_006395	2004-11-04	plasmid pNG700
NC_006396	2004-11-04	chromosome I
NC_006397	2004-11-04	chromosome II

#### *Halobacterium sp*

Status: Complete

NBCI TaxID: 64091

FASTA Abbreviation: arHNRC\_

Accession	Date	Description
NC_001869	1997-08-09	plasmid pNRC100
NC_002607	2001-09-27	
NC_002608	2000-07-14	plasmid pNRC200

#### *Methanobacterium thermoautotrophicum*

Status: Complete

NBCI TaxID: 187420

FASTA Abbreviation: arMthe\_

Accession	Date
NC_000916	2001-09-19

#### *Methanococcoides burtonii DSM 6242*

Status: Draft

NBCI TaxID: 259564

FASTA Abbreviation: arMburD

Accession	Date	Description
NZ_AADH00000000	2005-06-24	WGS

*Euryarchaeota (continued)*

*Methanococcus jannaschii*

Status: Complete  
NCBI TaxID: 243232  
FASTA Abbreviation: arMjan\_

Accession	Date
NC_000909	2001-09-10
NC_001732	1996-08-21
NC_001733	1996-08-21

*Methanococcus maripaludis S2*

Status: Complete  
NCBI TaxID: 267377  
FASTA Abbreviation: arMmarS

Accession	Date
NC_005791	2004-03-11

*Methanopyrus kandleri*

Status: Complete  
NCBI TaxID: 190192  
FASTA Abbreviation: arMkan\_

Accession	Date
NC_003551	2002-02-04

*Methanosarcina acetivorans*

Status: Complete  
NCBI TaxID: 188937  
FASTA Abbreviation: arMace\_

Accession	Date
NC_003552	2002-03-20

*Methanosarcina barkeri str. fusaro*

Status: Draft  
NCBI TaxID: 269797  
FASTA Abbreviation: arMbars

Accession	Date	Description
NZ_AAAR00000000	2005-06-22	WGS

*Methanosarcina mazei*

Status: Complete  
NCBI TaxID: 192952  
FASTA Abbreviation: arMmaz\_

Accession	Date
NC_003901	2001-08-23

*Picrophilus torridus DSM 9790*

Status: Complete  
NCBI TaxID: 263820  
FASTA Abbreviation: arPtorD

Accession	Date
NC_005877	2004-06-09

*Pyrococcus abyssi*

Status: Complete  
NCBI TaxID: 272844  
FASTA Abbreviation: arPaby\_

Accession	Date	Description
NC_000868	2001-06-21	
NC_001773	1996-07-27	plasmid pGT5

*Pyrococcus furiosus*

Status: Complete  
NCBI TaxID: 186497  
FASTA Abbreviation: arPfur\_

Accession	Date
NC_003413	2002-02-12

*Euryarchaeota (continued)*

*Pyrococcus horikoshii*

Status: Complete  
NCBI TaxID: 70601  
FASTA Abbreviation: arPhor\_

Accession	Date
NC_000961	2001-07-03

*Thermococcus kodakaraensis KOD1*

Status: Complete  
NCBI TaxID: 69014  
FASTA Abbreviation: arTkodK

Accession	Date
NC_006624	2005-01-13

*Thermoplasma acidophilum*

Status: Complete  
NCBI TaxID: 273075  
FASTA Abbreviation: arTaci\_

Accession	Date
NC_002578	2001-10-12

*Thermoplasma volcanium*

Status: Complete  
NCBI TaxID: 273116  
FASTA Abbreviation: arTvol\_

Accession	Date
NC_002689	2001-03-22

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**Firmicutes**

*Bacillus anthracis Ames*

Status: Complete  
NCBI TaxID: 198094  
FASTA Abbreviation: grBantA

Accession	Date
NC_003997	2002-05-16

*Bacillus anthracis Ames 0581*

Status: Complete  
NCBI TaxID: 261594  
FASTA Abbreviation: grBant0

Accession	Date	Description
NC_007322	2004-05-20	plasmid pXO1
NC_007323	2004-05-20	plasmid pXO2
NC_007530	2004-05-20	

*Bacillus anthracis str Sterne*

Status: Complete  
NCBI TaxID: 260799  
FASTA Abbreviation: grBantS

Accession	Date
NC_005945	2004-06-24

*Bacillus cereus ATCC 10987*

Status: Complete  
NCBI TaxID: 222523  
FASTA Abbreviation: grBcer0

Accession	Date	Description
NC_003909	2002-04-10	
NC_005707	2004-02-27	plasmid pBc10987

*Firmicutes (continued)*

*Bacillus cereus ATCC14579*

Status: Complete  
NCBI TaxID: 226900  
FASTA Abbreviation: grBcer4

Accession	Date	Description
NC_004721	2003-04-16	plasmid pBClin15
NC_004722	2003-04-17	

*Bacillus cereus G9241*

Status: Draft  
NCBI TaxID: 269801  
FASTA Abbreviation: grBcerG

Accession	Date	Description
NZ_AAEK00000000	2004-05-24	WGS

*Bacillus cereus ZK*

Status: Complete  
NCBI TaxID: 288681  
FASTA Abbreviation: grBcerZ

Accession	Date	Description
NC_006274	2004-09-16	
NC_007103	2005-06-09	plasmid pE33L466
NC_007104	2005-06-09	plasmid pE33L5
NC_007105	2005-06-09	plasmid pE33L54
NC_007106	2005-06-09	plasmid pE33L8
NC_007107	2005-06-09	plasmid pE33L9

*Bacillus clausii KSM-K16*

Status: Complete  
NCBI TaxID: 66692  
FASTA Abbreviation: grBclaK

Accession	Date
NC_006582	2005-01-03

*Bacillus halodurans*

Status: Complete  
NCBI TaxID: 272558  
FASTA Abbreviation: grBhal\_

Accession	Date
NC_002570	2001-09-10

*Bacillus licheniformis ATCC 14580*

Status: Complete  
NCBI TaxID: 279010  
FASTA Abbreviation: grBlicA

Accession	Date
NC_006270	2004-09-15

*Bacillus licheniformis DSM 13*

Status: Complete  
NCBI TaxID: 279010  
FASTA Abbreviation: grBlicD

Accession	Date
NC_006322	2004-09-28

*Bacillus subtilis*

Status: Complete  
NCBI TaxID: 224308  
FASTA Abbreviation: grBsub\_

Accession	Date
NC_000964	1997-11-20

*Bacillus thuringiensis konkukian*

Status: Complete  
NCBI TaxID: 281309  
FASTA Abbreviation: grBthuK

Accession	Date	Description
NC_005957	2004-06-30	
NC_006578	2004-12-30	plasmid pBT9727

*Firmicutes (continued)*

*Clostridium acetobutylicum*

Status: Complete  
NCBI TaxID: 272562  
FASTA Abbreviation: grCace\_

Accession	Date	Description
NC_001988	1998-12-16	plasmid pSOL1
NC_003030	2001-10-03	

*Clostridium perfringens*

Status: Complete  
NCBI TaxID: 195102  
FASTA Abbreviation: grCper\_

Accession	Date	Description
NC_003042	2001-08-02	plasmid pCP13
NC_003366	2001-12-27	

*Clostridium tetani E88*

Status: Complete  
NCBI TaxID: 212717  
FASTA Abbreviation: grCtete

Accession	Date	Description
NC_004557	2003-02-05	
NC_004565	2003-02-13	plasmid pE88

*Clostridium thermocellum ATCC 27405*

Status: Draft  
NCBI TaxID: 203119  
FASTA Abbreviation: grCtheA

Accession	Date	Description
NZ_AABG00000000	2005-06-17	WGS

*Desulfitobacterium hafniense DCB-2*

Status: Draft  
NCBI TaxID: 272564  
FASTA Abbreviation: grDhafD

Accession	Date	Description
NZ_AAAW00000000	2005-06-24	WGS

*Enterococcus faecalis V583*

Status: Complete  
NCBI TaxID: 226185  
FASTA Abbreviation: grEfaeV

Accession	Date	Description
NC_004668	2003-03-31	
NC_004669	2003-03-31	plasmid pTEF1
NC_004670	2003-03-31	plasmid pTEF3
NC_004671	2003-03-31	plasmid pTEF2

*Enterococcus faecium*

Status: Draft  
NCBI TaxID: 333849  
FASTA Abbreviation: grEfae\_

Accession	Date	Description
NC_005000	2003-07-08	plasmid pRUM
NC_006427	2004-11-13	plasmid pJB01
NZ_AAAK00000000	2005-07-06	WGS

*Exiguobacterium sp. 255-15*

Status: Draft  
NCBI TaxID: 262543  
FASTA Abbreviation: grE255\_

Accession	Date	Description
NZ_AADW00000000	2005-06-21	WGS

*Firmicutes (continued)*

*Geobacillus kaustophilus HTA426*

Status: Complete  
NCBI TaxID: 235909  
FASTA Abbreviation: grGkauH

Accession	Date	Description
NC_006509	2004-12-08	plasmid pHTA426
NC_006510	2004-12-08	

*Lactobacillus acidophilus NCFM*

Status: Complete  
NCBI TaxID: 272621  
FASTA Abbreviation: grLaciN

Accession	Date
NC_006814	2005-01-31

*Lactobacillus casei ATCC 334*

Status: Draft  
NCBI TaxID: 321967  
FASTA Abbreviation: grLcasa

Accession	Date	Description
NZ_AAGR000000000	2005-04-12	WGS

*Lactobacillus delbrueckii subsp. bulgaricus ATCC BAA-365*

Status: Draft  
NCBI TaxID: 321956  
FASTA Abbreviation: grLdelS

Accession	Date	Description
NZ_AAGQ000000000	2005-04-12	WGS

*Lactobacillus gasseri*

Status: Draft  
NCBI TaxID: 1596  
FASTA Abbreviation: grLgas\_

Accession	Date	Description
NZ_AAAO000000000	2003-03-07	WGS

*Lactobacillus johnsonii NCC 533*

Status: Complete  
NCBI TaxID: 257314  
FASTA Abbreviation: grLjohN

Accession	Date
NC_005362	2004-02-11

*Lactobacillus plantarum*

Status: Complete  
NCBI TaxID: 220668  
FASTA Abbreviation: grLpla\_

Accession	Date	Description
NC_004567	2003-02-14	
NC_006375	2004-10-20	plasmid pWCFS101
NC_006376	2004-10-20	plasmid pWCFS102
NC_006377	2004-10-20	plasmid pWCFS103

*Lactococcus lactis*

Status: Complete  
NCBI TaxID: 272623  
FASTA Abbreviation: grLlac\_

Accession	Date
NC_002662	2001-09-19

*Lactococcus lactis subsp. cremoris SK11*

Status: Draft  
NCBI TaxID: 272622  
FASTA Abbreviation: grLlacS

Accession	Date	Description
NZ_AAGO000000000	2005-04-11	WGS

*Firmicutes (continued)*

*Leuconostoc mesenteroides subsp. mesenteroides ATCC 8293*

Status: Draft  
NCBI TaxID: 203120  
FASTA Abbreviation: grLmesS

Accession	Date	Description
NZ_AABH00000000	2003-03-07	WGS

*Listeria innocua*

Status: Complete  
NCBI TaxID: 272626  
FASTA Abbreviation: grLinn\_

Accession	Date	Description
NC_003212	2001-11-08	
NC_003383	2001-10-21	plasmid pLI100

*Listeria monocytogenes*

Status: Complete  
NCBI TaxID: 169963  
FASTA Abbreviation: grLmon\_

Accession	Date
NC_003210	2001-11-08

*Listeria monocytogenes 4b F2365*

Status: Complete  
NCBI TaxID: 265669  
FASTA Abbreviation: grLmonF

Accession	Date
NC_002973	2001-08-28

*Listeria monocytogenes str. 1.2a F6854*

Status: Draft  
NCBI TaxID: 267409  
FASTA Abbreviation: grLmon1

Accession	Date	Description
NZ_AADQ00000000	2004-05-10	WGS

*Listeria monocytogenes str. 4b H7858*

Status: Draft  
NCBI TaxID: 267410  
FASTA Abbreviation: grLmonH

Accession	Date	Description
NZ_AADR00000000	2004-05-10	WGS

*Mesoplasma florum L1*

Status: Complete  
NCBI TaxID: 265311  
FASTA Abbreviation: grMfloL

Accession	Date
NC_006055	2004-07-19

*Moorella thermoacetica ATCC 39073*

Status: Draft  
NCBI TaxID: 264732  
FASTA Abbreviation: grMtheA

Accession	Date	Description
NZ_AADT00000000	2005-06-28	WGS

*Mycoplasma gallisepticum*

Status: Complete  
NCBI TaxID: 233150  
FASTA Abbreviation: grMgal\_

Accession	Date
NC_004829	2003-06-09

*Mycoplasma genitalium*

Status: Complete  
NCBI TaxID: 243273  
FASTA Abbreviation: grMgen\_

Accession	Date
NC_000908	2001-01-08

*Firmicutes (continued)*

*Mycoplasma hyopneumoniae 232*

Status: Complete  
NCBI TaxID: 295358  
FASTA Abbreviation: grMhyo2

Accession	Date
NC_006360	2004-10-10

*Mycoplasma mobile 163K*

Status: Complete  
NCBI TaxID: 267748  
FASTA Abbreviation: grMmob1

Accession	Date
NC_006908	2004-05-18

*Mycoplasma mycoides*

Status: Complete  
NCBI TaxID: 272632  
FASTA Abbreviation: grMmyc\_

Accession	Date
NC_005364	2004-02-17

*Mycoplasma penetrans*

Status: Complete  
NCBI TaxID: 272633  
FASTA Abbreviation: grMpen\_

Accession	Date
NC_004432	2002-12-12

*Mycoplasma pneumoniae*

Status: Complete  
NCBI TaxID: 272634  
FASTA Abbreviation: grMpne\_

Accession	Date
NC_000912	2001-04-02

*Mycoplasma pulmonis*

Status: Complete  
NCBI TaxID: 272635  
FASTA Abbreviation: grMpul\_

Accession	Date
NC_002771	2001-10-02

*Oceanobacillus iheyensis*

Status: Complete  
NCBI TaxID: 221109  
FASTA Abbreviation: grOihe\_

Accession	Date
NC_004193	2002-09-18

*Oenococcus oeni PSU-1*

Status: Draft  
NCBI TaxID: 203123  
FASTA Abbreviation: grOoenP

Accession	Date	Description
NZ_AABJ00000000	2004-06-17	WGS

*Onion yellows phytoplasma*

Status: Complete  
NCBI TaxID: 262768  
FASTA Abbreviation: grOyelP

Accession	Date
NC_005303	2003-12-16

*Pasteuria nishizawae str. North American*

Status: Draft  
NCBI TaxID: 238030  
FASTA Abbreviation: grPnisS

Accession	Date	Description
NZ_AACR00000000	2003-08-05	WGS



*Firmicutes (continued)*

*Pediococcus pentosaceus ATCC 25745*

Status: Draft  
NCBI TaxID: 278197  
FASTA Abbreviation: grPpenA

Accession	Date	Description
NZ_AAEV000000000	2004-06-17	WGS

*Staphylococcus aureus COL*

Status: Complete  
NCBI TaxID: 93062  
FASTA Abbreviation: grSaurC

Accession	Date	Description
NC_002951	2001-09-14	
NC_006629	2005-01-13	plasmid pT181

*Staphylococcus aureus MW2*

Status: Complete  
NCBI TaxID: 196620  
FASTA Abbreviation: grSaurM

Accession	Date
NC_003923	2002-05-31

*Staphylococcus aureus Mu50*

Status: Complete  
NCBI TaxID: 158878  
FASTA Abbreviation: grSaur5

Accession	Date	Description
NC_002758	2001-10-04	
NC_002774	2001-05-11	plasmid VRSap

*Staphylococcus aureus N315*

Status: Complete  
NCBI TaxID: 158879  
FASTA Abbreviation: grSaurN

Accession	Date	Description
NC_002745	2001-04-21	
NC_003140	2001-04-24	plasmid pN315

*Staphylococcus aureus aureus MRSA252*

Status: Complete  
NCBI TaxID: 282458  
FASTA Abbreviation: grSaur2

Accession	Date
NC_002952	2001-11-06

*Staphylococcus aureus aureus MSSA476*

Status: Complete  
NCBI TaxID: 282459  
FASTA Abbreviation: grSaur4

Accession	Date	Description
NC_002953	2001-11-06	
NC_005951	2004-06-29	plasmid pSAS

*Staphylococcus epidermidis ATCC 12228*

Status: Complete  
NCBI TaxID: 176280  
FASTA Abbreviation: grSepiA

Accession	Date	Description
NC_004461	2003-01-02	
NC_005003	2003-07-08	plasmid pSE-12228-06
NC_005004	2003-07-08	plasmid pSE-12228-05
NC_005005	2003-07-08	plasmid pSE-12228-04
NC_005006	2003-07-08	plasmid pSE-12228-03
NC_005007	2003-07-08	plasmid pSE-12228-02
NC_005008	2003-07-08	plasmid pSE-12228-01

*Firmicutes (continued)*

*Staphylococcus epidermidis RP62A*

Status: Complete  
NCBI TaxID: 176279  
FASTA Abbreviation: grSepiR

Accession	Date	Description
NC_002976	2002-01-09	
NC_006663	2005-01-15	plasmid pSERP

*Staphylococcus haemolyticus*

Status: Complete  
NCBI TaxID: 279808  
FASTA Abbreviation: grShae\_

Accession	Date
NC_007168	2005-07-12

*Streptococcus agalactiae 2603*

Status: Complete  
NCBI TaxID: 208435  
FASTA Abbreviation: grSaga2

Accession	Date
NC_004116	2002-08-28

*Streptococcus agalactiae NEM316*

Status: Complete  
NCBI TaxID: 211110  
FASTA Abbreviation: grSagaN

Accession	Date
NC_004368	2002-11-15

*Streptococcus mutans*

Status: Complete  
NCBI TaxID: 210007  
FASTA Abbreviation: grSmut\_

Accession	Date
NC_004350	2002-10-25

*Streptococcus pneumoniae R6*

Status: Complete  
NCBI TaxID: 171101  
FASTA Abbreviation: grSpneR

Accession	Date
NC_003098	2001-10-03

*Streptococcus pneumoniae TIGR4*

Status: Complete  
NCBI TaxID: 170187  
FASTA Abbreviation: grSpneT

Accession	Date
NC_003028	2001-10-03

*Streptococcus pyogenes M1 GAS*

Status: Complete  
NCBI TaxID: 160490  
FASTA Abbreviation: grSpyoF

Accession	Date
NC_002737	2001-09-19

*Streptococcus pyogenes M49 591*

Status: Draft  
NCBI TaxID: 294934  
FASTA Abbreviation: grSpyoM

Accession	Date	Description
NZ_AAFV00000000	2004-12-28	WGS

*Streptococcus pyogenes MGAS10394*

Status: Complete  
NCBI TaxID: 286636  
FASTA Abbreviation: grSpyo1

Accession	Date
NC_006086	2004-08-03

*Firmicutes (continued)*

*Streptococcus pyogenes MGAS315*

Status: Complete  
NCBI TaxID: 198466  
FASTA Abbreviation: grSpyo3

Accession	Date
NC_004070	2002-07-18

*Streptococcus pyogenes MGAS8232*

Status: Complete  
NCBI TaxID: 186103  
FASTA Abbreviation: grSpyo8

Accession	Date
NC_003485	2002-01-31

*Streptococcus pyogenes SSI-1*

Status: Complete  
NCBI TaxID: 193567  
FASTA Abbreviation: grSpyoS

Accession	Date
NC_004606	2003-03-10

*Streptococcus suis 89.1591*

Status: Draft  
NCBI TaxID: 286604  
FASTA Abbreviation: grSsui8

Accession	Date	Description
NZ_AAFA00000000	2004-07-26	WGS

*Streptococcus thermophilus CNRZ1066*

Status: Complete  
NCBI TaxID: 299768  
FASTA Abbreviation: grStheC

Accession	Date
NC_006449	2004-11-18

*Streptococcus thermophilus LMD-9*

Status: Draft  
NCBI TaxID: 322159  
FASTA Abbreviation: grStheD

Accession	Date	Description
NZ_AAGS00000000	2005-04-13	WGS

*Streptococcus thermophilus LMG 18311*

Status: Complete  
NCBI TaxID: 264199  
FASTA Abbreviation: grStheG

Accession	Date
NC_006448	2004-11-18

*Thermoanaerobacter tengcongensis*

Status: Complete  
NCBI TaxID: 273068  
FASTA Abbreviation: grTten\_

Accession	Date
NC_003869	2001-10-07

*Ureaplasma urealyticum*

Status: Complete  
NCBI TaxID: 273119  
FASTA Abbreviation: grUure\_

Accession	Date
NC_002162	2000-01-10

*Actinobacteria*

**Actinobacteria**

*Bifidobacterium longum*

Status: Complete  
NCBI TaxID: 206672  
FASTA Abbreviation: grBlon\_

Accession	Date
NC_004307	2002-09-27

*Bifidobacterium longum* DJO10A

Status: Draft  
NCBI TaxID: 205913  
FASTA Abbreviation: grBlonD

Accession	Date	Description
NZ_AABM00000000	2003-03-26	WGS

*Brevibacterium linens* BL2

Status: Draft  
NCBI TaxID: 321955  
FASTA Abbreviation: grBlinB

Accession	Date	Description
NZ_AAGP00000000	2005-04-08	WGS

*Corynebacterium diphtheriae*

Status: Complete  
NCBI TaxID: 257309  
FASTA Abbreviation: grCdip\_

Accession	Date
NC_002935	2001-11-06

*Corynebacterium efficiens* YS-314

Status: Complete  
NCBI TaxID: 196164  
FASTA Abbreviation: grCeffY

Accession	Date
NC_004369	2002-11-15

*Corynebacterium glutamicum* ATCC 13032 Bielefeld

Status: Complete  
NCBI TaxID: 196627  
FASTA Abbreviation: grCgluB

Accession	Date
NC_006958	2005-04-07

*Corynebacterium glutamicum* ATCC 13032 Kitasato

Status: Complete  
NCBI TaxID: 196627  
FASTA Abbreviation: grCgluK

Accession	Date
NC_003450	2001-03-12

*Corynebacterium jeikeium* K411

Status: Complete  
NCBI TaxID: 306537  
FASTA Abbreviation: grCjeiK

Accession	Date
NC_007164	2005-07-04

*Kineococcus radiotolerans* SRS30216

Status: Draft  
NCBI TaxID: 266940  
FASTA Abbreviation: grKradS

Accession	Date	Description
NZ_AAEF00000000	2005-07-06	WGS

*Leifsonia xyli xyli* CTCB0

Status: Complete  
NCBI TaxID: 281090  
FASTA Abbreviation: grLxylX

Accession	Date
NC_006087	2004-08-04

*Actinobacteria (continued)*

*Mycobacterium avium paratuberculosis*

Status: Complete  
NCBI TaxID: 262316  
FASTA Abbreviation: grMaviP

Accession	Date
NC_002944	2001-12-27

*Mycobacterium bovis*

Status: Complete  
NCBI TaxID: 233413  
FASTA Abbreviation: grMbov\_

Accession	Date
NC_002945	2001-01-25

*Mycobacterium leprae*

Status: Complete  
NCBI TaxID: 272631  
FASTA Abbreviation: grMlep\_

Accession	Date
NC_002677	2001-10-02

*Mycobacterium tuberculosis CDC1551*

Status: Complete  
NCBI TaxID: 83331  
FASTA Abbreviation: grMtubC

Accession	Date
NC_002755	2001-10-02

*Mycobacterium tuberculosis H37Rv*

Status: Complete  
NCBI TaxID: 83332  
FASTA Abbreviation: grMtubH

Accession	Date
NC_000962	2001-09-07

*Nocardia farcinica IFM10152*

Status: Complete  
NCBI TaxID: 247156  
FASTA Abbreviation: grNfarI

Accession	Date	Description
NC_006361	2004-10-11	
NC_006362	2004-10-11	plasmid pNF1
NC_006363	2004-10-11	plasmid pNF2

*Propionibacterium acnes KPA171202*

Status: Complete  
NCBI TaxID: 267747  
FASTA Abbreviation: grPacnK

Accession	Date
NC_006085	2004-07-30

*Rubrobacter xylanophilus DSM 9941*

Status: Draft  
NCBI TaxID: 266117  
FASTA Abbreviation: grRxylD

Accession	Date	Description
NZ_AAEB00000000	2005-07-04	WGS

*Streptomyces avermitilis*

Status: Complete  
NCBI TaxID: 227882  
FASTA Abbreviation: grSave\_

Accession	Date	Description
NC_003155	2001-10-15	
NC_004719	2003-04-14	plasmid SAP1

*Actinobacteria (continued)*

*Streptomyces coelicolor*

Status: Complete  
NCBI TaxID: 100226  
FASTA Abbreviation: grScoe\_

Accession	Date	Description
NC_003888	2002-05-28	
NC_003903	2002-05-28	plasmid SCP1
NC_003904	2001-11-19	plasmid SCP2

*Symbiobacterium thermophilum IAM14863*

Status: Complete  
NCBI TaxID: 292459  
FASTA Abbreviation: grStheI

Accession	Date
NC_006177	2004-09-07

*Thermobifida fusca*

Status: Draft  
NCBI TaxID: 2021  
FASTA Abbreviation: grTfus\_

Accession	Date	Description
NZ_AAAQ00000000	2004-06-16	WGS

*Tropheryma whipplei TW08 27*

Status: Complete  
NCBI TaxID: 218496  
FASTA Abbreviation: grTwhi2

Accession	Date
NC_004551	2003-02-27

*Tropheryma whipplei Twist*

Status: Complete  
NCBI TaxID: 203267  
FASTA Abbreviation: grTwhiT

Accession	Date
NC_004572	2003-02-24

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**Spirochaetes**

*Borrelia burgdorferi*

Status: Complete  
NCBI TaxID: 224326  
FASTA Abbreviation: spBbur\_

Accession	Date	Description
NC_000948	1999-11-11	plasmid cp32-1
NC_000949	1999-11-11	plasmid cp32-3
NC_000950	1999-11-11	plasmid cp32-4
NC_000951	1999-11-11	plasmid cp32-6
NC_000952	1999-11-11	plasmid cp32-7
NC_000953	1999-11-11	plasmid cp32-8
NC_000954	1999-11-11	plasmid cp32-9
NC_000955	1999-11-11	plasmid lp21

NC_000956	1999-11-11	plasmid lp56
NC_000957	1999-11-11	plasmid lp5
NC_001318	2001-09-07	
NC_001849	1997-12-17	plasmid lp17
NC_001850	1997-12-17	plasmid lp25
NC_001851	1997-12-17	plasmid lp28-1
NC_001852	1997-12-17	plasmid lp28-2
NC_001853	1997-12-17	plasmid lp28-3
NC_001854	1997-12-17	plasmid lp28-4
NC_001855	1997-12-17	plasmid lp36
NC_001856	1997-12-17	plasmid lp38
NC_001857	1997-12-17	plasmid lp54
NC_001903	1997-12-17	plasmid cp26
NC_001904	1997-12-17	plasmid cp9

*Spirochaetes (continued)*

*Borrelia garinii PBi*

Status: Complete  
NCBI TaxID: 290434  
FASTA Abbreviation: spBgarP

Accession	Date	Description
NC_006128	2004-08-09	plasmid cp26
NC_006129	2004-08-09	plasmid lp54
NC_006156	2004-08-30	chromosome linear

*Leptospira interrogans serovar Copenhageni*

Status: Complete  
NCBI TaxID: 267671  
FASTA Abbreviation: spLintC

Accession	Date	Description
NC_005823	2004-03-23	chromosome I
NC_005824	2004-03-23	chromosome II

*Leptospira interrogans serovar Lai*

Status: Complete  
NCBI TaxID: 189518  
FASTA Abbreviation: spLintL

Accession	Date	Description
NC_004342	2002-10-21	chromosome I
NC_004343	2002-10-21	chromosome II

*Treponema denticola ATCC 35405*

Status: Complete  
NCBI TaxID: 243275  
FASTA Abbreviation: spTden3

Accession	Date
NC_002967	2002-02-14

*Treponema pallidum*

Status: Complete  
NCBI TaxID: 243276  
FASTA Abbreviation: spTpal\_

Accession	Date
NC_000919	2001-09-07

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**Thermotogae**

*Thermotoga maritima*

Status: Complete  
NCBI TaxID: 243274  
FASTA Abbreviation: thTmar\_

Accession	Date
NC_000853	2001-09-10

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**Cyanobacteria**

*Anabaena variabilis ATCC 29413*

Status: Draft  
 NBCI TaxID: 240292  
 FASTA Abbreviation: cyAvarA

Accession	Date	Description
NZ_AAEA000000000	2004-03-17	WGS

*Crocospaera watsonii WH 8501*

Status: Draft  
 NBCI TaxID: 165597  
 FASTA Abbreviation: cyCwatW

Accession	Date	Description
NZ_AADV000000000	2005-06-17	WGS

*Gloeobacter violaceus*

Status: Complete  
 NBCI TaxID: 251221  
 FASTA Abbreviation: cyGvio\_

Accession	Date
NC_005125	2003-10-06

*Nostoc punctiforme PCC 73102*

Status: Draft  
 NBCI TaxID: 63737  
 FASTA Abbreviation: cyNpunP

Accession	Date	Description
NZ_AAAY000000000	2003-05-13	WGS

*Nostoc sp*

Status: Complete  
 NBCI TaxID: 103690  
 FASTA Abbreviation: cyNPCC\_

Accession	Date	Description
NC_003240	2001-11-28	plasmid pCC7120beta
NC_003241	2001-11-28	plasmid pCC7120zeta
NC_003267	2001-11-28	plasmid pCC7120gamma
NC_003270	2001-11-28	plasmid pCC7120epsi.
NC_003272	2001-11-28	
NC_003273	2001-11-28	plasmid pCC7120delta
NC_003276	2001-11-28	plasmid pCC7120alpha

*Prochlorococcus marinus CCMP1375*

Status: Complete  
 NBCI TaxID: 167539  
 FASTA Abbreviation: cyPmarC

Accession	Date
NC_005042	2003-07-25

*Prochlorococcus marinus MED4*

Status: Complete  
 NBCI TaxID: 59919  
 FASTA Abbreviation: cyPmarE

Accession	Date
NC_005072	2003-08-19

*Prochlorococcus marinus MIT9313*

Status: Complete  
 NBCI TaxID: 74547  
 FASTA Abbreviation: cyPmarI

Accession	Date
NC_005071	2003-08-19



*Cyanobacteria (continued)*

*Synechococcus elongatus PCC 6301*

Status: Complete  
NCBI TaxID: 269084  
FASTA Abbreviation: cySelo6

Accession	Date
NC_006576	2004-12-21

*Synechococcus elongatus PCC 7942*

Status: Draft  
NCBI TaxID: 1140  
FASTA Abbreviation: cySelo7

Accession	Date	Description
NC_004073	2002-07-21	plasmid pANL
NC_004990	2003-07-07	plasmid pUH24
NZ_AADZ000000000	2004-03-17	WGS

*Synechococcus sp WH8102*

Status: Complete  
NCBI TaxID: 84588  
FASTA Abbreviation: cySWH8\_

Accession	Date
NC_005070	2003-08-19

*Synechocystis PCC6803*

Status: Complete  
NCBI TaxID: 1148  
FASTA Abbreviation: cySpcc\_

Accession	Date
NC_000911	2001-10-23

*Thermosynechococcus elongatus*

Status: Complete  
NCBI TaxID: 197221  
FASTA Abbreviation: cyTelo\_

Accession	Date
NC_004113	2002-08-19

*Trichodesmium erythraeum IMS101*

Status: Draft  
NCBI TaxID: 203124  
FASTA Abbreviation: cyTeryI

Accession	Date	Description
NZ_AABK000000000	2004-06-17	WGS

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**Deinococcus-Thermus**

*Deinococcus radiodurans*

Status: Complete  
NCBI TaxID: 243230  
FASTA Abbreviation: deDrad\_

Accession	Date	Description
NC_000958	1999-11-02	plasmid MP1
NC_000959	1999-11-03	plasmid CP1
NC_001263	2001-09-28	chromosome 1
NC_001264	2001-09-28	chromosome 2

*Thermus thermophilus HB27*

Status: Complete  
NCBI TaxID: 262724  
FASTA Abbreviation: deTthe2

Accession	Date	Description
NC_005835	2004-04-05	
NC_005838	2004-04-07	plasmid pTT27

*Deinococcus-Thermus (continued)*

*Thermus thermophilus HB8*

Status: Complete  
NCBI TaxID: 300852  
FASTA Abbreviation: deTthe8

Accession	Date	Description
NC_006461	2004-11-23	
NC_006462	2004-11-23	plasmid pTT27
NC_006463	2004-11-23	plasmid pTT8

**Epsilonproteobacteria**

*Campylobacter coli RM2228*

Status: Draft  
NCBI TaxID: 306254  
FASTA Abbreviation: epCcolR

Accession	Date	Description
NZ_AAF000000000	2005-01-11	WGS

*Campylobacter jejuni*

Status: Complete  
NCBI TaxID: 192222  
FASTA Abbreviation: epCjej\_

Accession	Date
NC_002163	2001-09-27

*Campylobacter jejuni RM1221*

Status: Complete  
NCBI TaxID: 195099  
FASTA Abbreviation: epCjejR

Accession	Date
NC_003912	2002-05-16

*Campylobacter lari RM2100*

Status: Draft  
NCBI TaxID: 306263  
FASTA Abbreviation: epClarR

Accession	Date	Description
NZ_AAFK000000000	2005-01-07	WGS

*Campylobacter upsaliensis RM3195*

Status: Draft  
NCBI TaxID: 306264  
FASTA Abbreviation: epCupsR

Accession	Date	Description
NZ_AAFJ000000000	2005-01-11	WGS

*Helicobacter hepaticus*

Status: Complete  
NCBI TaxID: 235279  
FASTA Abbreviation: epHhep\_

Accession	Date
NC_004917	2003-06-26

*Epsilonproteobacteria (continued)*

*Helicobacter pylori 26695*

Status: Complete  
NCBI TaxID: 85962  
FASTA Abbreviation: epHpyl2

Accession Date  
NC\_000915 2001-09-07

*Helicobacter pylori J99*

Status: Complete  
NCBI TaxID: 85963  
FASTA Abbreviation: epHpylJ

Accession Date  
NC\_000921 2001-09-10

*Wolinella succinogenes*

Status: Complete  
NCBI TaxID: 273121  
FASTA Abbreviation: epWsuc\_

Accession Date  
NC\_005090 2003-09-10

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**Deltaproteobacteria**

*Bdellovibrio bacteriovorus*

Status: Complete  
NCBI TaxID: 264462  
FASTA Abbreviation: dpBbac\_

Accession Date  
NC\_005363 2004-02-11

*Desulfotalea psychrophila LSv54*

Status: Complete  
NCBI TaxID: 177439  
FASTA Abbreviation: dpDpsyL

Accession	Date	Description
NC_006138	2004-08-16	
NC_006139	2004-08-16	plasmid large
NC_006140	2004-08-16	plasmid small

*Desulfovibrio desulfuricans G20*

Status: Draft  
NCBI TaxID: 207559  
FASTA Abbreviation: dpDdesG

Accession	Date	Description
NZ_AAABN000000000	2003-03-07	WGS

*Desulfovibrio vulgaris Hildenborough*

Status: Complete  
NCBI TaxID: 882  
FASTA Abbreviation: dpDvulH

Accession	Date	Description
NC_002937	2001-10-03	
NC_005863	2004-04-26	plasmid

megaplasmid

*Geobacter metallireducens GS-15*

Status: Draft  
NCBI TaxID: 269799  
FASTA Abbreviation: dpGmetG

Accession	Date	Description
NZ_AAAS000000000	2005-06-20	WGS

*Geobacter sulfurreducens*

Status: Complete  
NCBI TaxID: 243231  
FASTA Abbreviation: dpGsul\_

Accession	Date
NC_002939	2002-02-14

## Alphaproteobacteria

### *Agrobacterium tumefaciens C58 Cereon*

Status: Complete  
NCBI TaxID: 176299  
FASTA Abbreviation: apAtumC

Accession	Date	Description
NC_003062	2001-10-03	chromosome circular
NC_003063	2001-10-03	chromosome linear
NC_003064	2001-08-14	plasmid AT
NC_003065	2001-08-14	plasmid Ti

### *Agrobacterium tumefaciens C58 UWash*

Status: Complete  
NCBI TaxID: 176299  
FASTA Abbreviation: apAtumW

Accession	Date	Description
NC_003304	2001-09-27	chromosome circular
NC_003305	2001-09-27	chromosome linear
NC_003306	2001-09-27	plasmid AT
NC_003308	2001-09-27	plasmid Ti

### *Anaplasma marginale St Maries*

Status: Complete  
NCBI TaxID: 234826  
FASTA Abbreviation: apAmarS

Accession	Date
NC_004842	2003-06-17

### *Bartonella henselae Houston-1*

Status: Complete  
NCBI TaxID: 283166  
FASTA Abbreviation: apBhenH

Accession	Date
NC_005956	2004-06-30

### *Bartonella quintana Toulouse*

Status: Complete  
NCBI TaxID: 283165  
FASTA Abbreviation: apBquiT

Accession	Date
NC_005955	2004-06-30

### *Bradyrhizobium japonicum*

Status: Complete  
NCBI TaxID: 224911  
FASTA Abbreviation: apBjap\_

Accession	Date
NC_004463	2002-12-27

### *Brucella abortus 9-941*

Status: Complete  
NCBI TaxID: 262698  
FASTA Abbreviation: apBabo9

Accession	Date	Description
NC_006932	2005-04-06	chromosome I
NC_006933	2005-04-06	chromosome II

### *Brucella melitensis*

Status: Complete  
NCBI TaxID: 224914  
FASTA Abbreviation: apBmel\_

Accession	Date	Description
NC_003317	2001-11-13	chromosome I
NC_003318	2001-11-13	chromosome II

*Alphaproteobacteria (continued)*

*Brucella suis* 1330

Status: Complete  
NCBI TaxID: 204722  
FASTA Abbreviation: apBsui1

Accession	Date	Description
NC_004310	2002-09-30	chromosome I
NC_004311	2002-10-02	chromosome II

*Caulobacter crescentus*

Status: Complete  
NCBI TaxID: 190650  
FASTA Abbreviation: apCcre\_

Accession	Date
NC_002696	2001-03-21

*Ehrlichia canis* str. Jake

Status: Draft  
NCBI TaxID: 269484  
FASTA Abbreviation: apEcanS

Accession	Date	Description
NZ_AAEJ000000000	2004-04-08	WGS

*Ehrlichia ruminantium* Gardel

Status: Complete  
NCBI TaxID: 302409  
FASTA Abbreviation: apErumG

Accession	Date
NC_006831	2005-02-04

*Ehrlichia ruminantium* Welgevonden

Status: Complete  
NCBI TaxID: 254945  
FASTA Abbreviation: apErumW

Accession	Date
NC_005295	2003-12-10

*Ehrlichia ruminantium* str. Welgevonden

Status: Complete  
NCBI TaxID: 254945  
FASTA Abbreviation: apErumS

Accession	Date
NC_006832	2005-02-04

*Erythrobacter litoralis* HTCC2594

Status: Draft  
NCBI TaxID: 314225  
FASTA Abbreviation: apElith

Accession	Date	Description
NZ_AAGG000000000	2005-03-14	WGS

*Gluconobacter oxydans* 621H

Status: Complete  
NCBI TaxID: 290633  
FASTA Abbreviation: apGoxy6

Accession	Date	Description
NC_006672	2005-01-24	plasmid pGOX1
NC_006673	2005-01-24	plasmid pGOX2
NC_006674	2005-01-24	plasmid pGOX3
NC_006675	2005-01-24	plasmid pGOX4
NC_006676	2005-01-24	plasmid pGOX5
NC_006677	2005-01-24	

*Magnetospirillum magnetotacticum* MS-1

Status: Draft  
NCBI TaxID: 272627  
FASTA Abbreviation: apMmagM

Accession	Date	Description
NZ_AAAP000000000	2002-09-17	WGS

*Alphaproteobacteria (continued)*

*Mesorhizobium loti*

Status: Complete  
NCBI TaxID: 266835  
FASTA Abbreviation: apMlot\_

Accession	Date	Description
NC_002678	2001-02-03	
NC_002679	2001-02-03	plasmid pMLa
NC_002682	2000-12-26	plasmid pMLb

*Mesorhizobium sp. BNC1*

Status: Draft  
NCBI TaxID: 266779  
FASTA Abbreviation: apMBNC\_

Accession	Date	Description
NZ_AAED00000000	2005-07-06	WGS

*Novosphingobium aromaticivorans DSM 12444*

Status: Draft  
NCBI TaxID: 279238  
FASTA Abbreviation: apNaroD

Accession	Date	Description
NZ_AAAV00000000	2004-06-17	WGS

*Rhodobacter sphaeroides 2.4.1*

Status: Draft  
NCBI TaxID: 272943  
FASTA Abbreviation: apRsph2

Accession	Date	Description
NZ_AA AE00000000	2002-09-17	WGS

*Rhodopseudomonas palustris CGA009*

Status: Complete  
NCBI TaxID: 258594  
FASTA Abbreviation: apRpalC

Accession	Date	Description
NC_005296	2003-12-16	
NC_005297	2003-12-13	plasmid pRPA

*Rhodospirillum rubrum*

Status: Draft  
NCBI TaxID: 1085  
FASTA Abbreviation: apRrub\_

Accession	Date	Description
NZ_AAAG00000000	2004-06-16	WGS

*Rickettsia akari str. Hartford*

Status: Draft  
NCBI TaxID: 293614  
FASTA Abbreviation: apRakaS

Accession	Date	Description
NZ_AAFE00000000	2004-09-27	WGS

*Rickettsia conorii*

Status: Complete  
NCBI TaxID: 272944  
FASTA Abbreviation: apRcon\_

Accession	Date
NC_003103	2001-10-03

*Alphaproteobacteria (continued)*

*Rickettsia felis URRWXCal2*

Status: Complete  
NCBI TaxID: 315456  
FASTA Abbreviation: apRfelU

Accession	Date	Description
NC_007109	2005-06-10	
NC_007110	2005-06-10	plasmid pRF
NC_007111	2005-06-10	plasmid pRFdelta

*Rickettsia prowazekii*

Status: Complete  
NCBI TaxID: 272947  
FASTA Abbreviation: apRpro\_

Accession	Date
NC_000963	2001-09-10

*Rickettsia rickettsii*

Status: Draft  
NCBI TaxID: 783  
FASTA Abbreviation: apRric\_

Accession	Date	Description
NZ_AADJ000000000	2004-02-06	WGS

*Rickettsia sibirica 246*

Status: Draft  
NCBI TaxID: 272951  
FASTA Abbreviation: apRsib2

Accession	Date	Description
NZ_AABW000000000	2003-09-11	WGS

*Rickettsia typhi wilmington*

Status: Complete  
NCBI TaxID: 257363  
FASTA Abbreviation: apRtypW

Accession	Date
NC_006142	2004-08-20

*Silicibacter pomeroyi DSS-3*

Status: Complete  
NCBI TaxID: 246200  
FASTA Abbreviation: apSpomD

Accession	Date	Description
NC_003911	2002-05-16	
NC_006569	2004-12-17	plasmid
megaplasmid		

*Silicibacter sp. TM1040*

Status: Draft  
NCBI TaxID: 292414  
FASTA Abbreviation: apSTM1\_

Accession	Date	Description
NZ_AAFG000000000	2005-07-06	WGS

*Sinorhizobium meliloti*

Status: Complete  
NCBI TaxID: 266834  
FASTA Abbreviation: apSmel\_

Accession	Date	Description
NC_003037	2001-03-29	plasmid pSymA
NC_003047	2001-10-05	
NC_003078	2001-08-16	plasmid pSymB

*Alphaproteobacteria (continued)*

*Wolbachia endosymbiont of Brugia malayi TRS*

Status: Complete  
NCBI TaxID: 292805  
FASTA Abbreviation: apWendB

Accession	Date
NC_006833	2005-02-04

*Wolbachia endosymbiont of Drosophila ananassae*

Status: Draft  
NCBI TaxID: 307502  
FASTA Abbreviation: apWendA

Accession	Date	Description
NZ_AAGB00000000	2005-02-07	WGS

*Wolbachia endosymbiont of Drosophila melanogaster*

Status: Complete  
NCBI TaxID: 163164  
FASTA Abbreviation: apWendM

Accession	Date
NC_002978	2002-01-16

*Wolbachia endosymbiont of Drosophila simulans*

Status: Draft  
NCBI TaxID: 77038  
FASTA Abbreviation: apWendS

Accession	Date	Description
NZ_AAGC00000000	2005-02-07	WGS

*Zymomonas mobilis ZM4*

Status: Complete  
NCBI TaxID: 264203  
FASTA Abbreviation: apZmobZ

Accession	Date
NC_006526	2004-12-12

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**Betaproteobacteria**

*Azoarcus sp EbN1*

Status: Complete  
NCBI TaxID: 76114  
FASTA Abbreviation: bpAEbN\_

Accession	Date	Description
NC_006513	2004-12-09	
NC_006823	2005-02-04	plasmid 1
NC_006824	2005-02-04	plasmid 2

*Bordetella bronchiseptica*

Status: Complete  
NCBI TaxID: 257310  
FASTA Abbreviation: bpBbro\_

Accession	Date
NC_002927	2001-11-06



*Betaproteobacteria (continued)*

*Bordetella parapertussis*

Status: Complete  
NCBI TaxID: 257311  
FASTA Abbreviation: bpBpar\_

Accession	Date
NC_002928	2001-11-06

*Bordetella pertussis*

Status: Complete  
NCBI TaxID: 257313  
FASTA Abbreviation: bpBper\_

Accession	Date
NC_002929	2001-11-06

*Burkholderia cepacia R1808*

Status: Draft  
NCBI TaxID: 269482  
FASTA Abbreviation: bpBcepG

Accession	Date	Description
NZ_AAEH00000000	2005-06-13	WGS

*Burkholderia cepacia R18194*

Status: Draft  
NCBI TaxID: 269483  
FASTA Abbreviation: bpBcepR

Accession	Date	Description
NZ_AAEI00000000	2004-04-09	WGS

*Burkholderia fungorum LB400*

Status: Draft  
NCBI TaxID: 266265  
FASTA Abbreviation: bpBfunL

Accession	Date	Description
NZ_AAAJ00000000	2004-06-16	WGS

*Burkholderia mallei ATCC 23344*

Status: Complete  
NCBI TaxID: 243160  
FASTA Abbreviation: bpBmala

Accession	Date	Description
NC_006348	2004-10-01	chromosome 1
NC_006349	2004-10-01	chromosome 2

*Burkholderia pseudomallei K96243*

Status: Complete  
NCBI TaxID: 272560  
FASTA Abbreviation: bpBpseK

Accession	Date	Description
NC_006350	2004-10-01	chromosome 1
NC_006351	2004-10-01	chromosome 2

*Chromobacterium violaceum*

Status: Complete  
NCBI TaxID: 243365  
FASTA Abbreviation: bpCvio\_

Accession	Date
NC_005085	2003-09-08

*Dechloromonas aromatica RCB*

Status: Draft  
NCBI TaxID: 159087  
FASTA Abbreviation: bpDarorR

Accession	Date	Description
NZ_AADF00000000	2004-02-03	WGS

*Betaproteobacteria (continued)*

*Methylobacillus flagellatus* KT

Status: Draft  
NCBI TaxID: 265072  
FASTA Abbreviation: bpMflaK

Accession	Date	Description
NZ_AADX00000000	2005-06-24	WGS

*Neisseria gonorrhoeae* FA 1090

Status: Complete  
NCBI TaxID: 242231  
FASTA Abbreviation: bpNgonF

Accession	Date
NC_002946	2000-09-28

*Neisseria meningitidis* MC58

Status: Complete  
NCBI TaxID: 122586  
FASTA Abbreviation: bpNmenM

Accession	Date
NC_003112	2001-09-19

*Neisseria meningitidis* Z2491

Status: Complete  
NCBI TaxID: 122587  
FASTA Abbreviation: bpNmenZ

Accession	Date
NC_003116	2001-09-27

*Nitrosomonas europaea*

Status: Complete  
NCBI TaxID: 228410  
FASTA Abbreviation: bpNeur\_

Accession	Date
NC_004757	2003-04-30

*Polaromonas* sp. JS666

Status: Draft  
NCBI TaxID: 296591  
FASTA Abbreviation: bpPJS6\_

Accession	Date	Description
NZ_AAFQ00000000	2005-06-17	WGS

*Ralstonia eutropha* JMP134

Status: Draft  
NCBI TaxID: 264198  
FASTA Abbreviation: bpReutJ

Accession	Date	Description
NC_005912	2004-06-24	plasmid pJP4
NZ_AADY00000000	2004-03-17	WGS

*Ralstonia metallidurans* CH34

Status: Draft  
NCBI TaxID: 266264  
FASTA Abbreviation: bpRmetC

Accession	Date	Description
NC_006466	2004-11-30	plasmid pMOL30
NC_006525	2004-12-11	plasmid pMOL28
NZ_AAAI00000000	2005-07-04	WGS

*Ralstonia solanacearum*

Status: Complete  
NCBI TaxID: 267608  
FASTA Abbreviation: bpRsol\_

Accession	Date	Description
NC_003295	2001-12-07	
NC_003296	2001-12-07	plasmid pGMI1000MP

*Betaproteobacteria (continued)*

*Rubrivivax gelatinosus PM1*

Status: Draft  
NCBI TaxID: 279263  
FASTA Abbreviation: bpRgelp

Accession	Date	Description
NZ_AAEM00000000	2004-05-24	WGS

*Thiobacillus denitrificans ATCC 25259*

Status: Draft  
NCBI TaxID: 292415  
FASTA Abbreviation: bpTden2

Accession	Date	Description
NZ_AAFH00000000	2004-09-14	WGS

**Gammaproteobacteria**

*Acinetobacter sp ADPI*

Status: Complete  
NCBI TaxID: 62977  
FASTA Abbreviation: gpAADP\_

Accession	Date
NC_005966	2004-07-09

*Actinobacillus pleuropneumoniae serovar 1 str. 4074*

Status: Draft  
NCBI TaxID: 228399  
FASTA Abbreviation: gpApleS

Accession	Date	Description
NZ_AACK00000000	2003-06-19	WGS

*Azotobacter vinelandii*

Status: Draft  
NCBI TaxID: 322710  
FASTA Abbreviation: gpAvin\_

Accession	Date	Description
NZ_AAAU00000000	2005-06-09	WGS

*Blochmannia floridanus*

Status: Complete  
NCBI TaxID: 203907  
FASTA Abbreviation: gpBflo\_

Accession	Date
NC_005061	2003-08-08

*Buchnera aphidicola*

Status: Complete  
NCBI TaxID: 224915  
FASTA Abbreviation: gpBaph\_

Accession	Date
NC_004545	2003-01-27

*Buchnera aphidicola Sg*

Status: Complete  
NCBI TaxID: 198804  
FASTA Abbreviation: gpBaphS

Accession	Date
NC_004061	2002-06-10

*Gammaproteobacteria (continued)*

*Buchnera sp*

Status: Complete  
NCBI TaxID: 107806  
FASTA Abbreviation: gpBAPS\_

Accession	Date	Description
NC_002252	2000-05-03	plasmid pTrp
NC_002253	2000-05-03	plasmid pLeu
NC_002528	2001-09-10	

*Coxiella burnetii*

Status: Complete  
NCBI TaxID: 227377  
FASTA Abbreviation: gpCbur\_

Accession	Date	Description
NC_002971	2001-08-28	
NC_004704	2003-04-09	plasmid pQpH1

*Erwinia carotovora atroseptica SCRI1043*

Status: Complete  
NCBI TaxID: 218491  
FASTA Abbreviation: gpEcarA

Accession	Date
NC_004547	2003-03-05

*Escherichia coli CFT073*

Status: Complete  
NCBI TaxID: 199310  
FASTA Abbreviation: gpEcolC

Accession	Date
NC_004431	2002-12-09

*Escherichia coli K12*

Status: Complete  
NCBI TaxID: 83333  
FASTA Abbreviation: gpEcolK

Accession	Date
NC_000913	2001-10-15

*Escherichia coli O157H7*

Status: Complete  
NCBI TaxID: 83334  
FASTA Abbreviation: gpEcolO

Accession	Date	Description
NC_002127	1998-07-23	plasmid pOSAK1
NC_002128	1998-07-23	plasmid pO157
NC_002695	2001-10-02	

*Escherichia coli O157H7 EDL933*

Status: Complete  
NCBI TaxID: 155864  
FASTA Abbreviation: gpEcolE

Accession	Date
NC_002655	2001-09-27

*Francisella tularensis tularensis*

Status: Complete  
NCBI TaxID: 177416  
FASTA Abbreviation: gpFtulT

Accession	Date
NC_006570	2004-12-17

*Gammaproteobacteria (continued)*

*Haemophilus ducreyi 35000HP*

Status: Complete  
NCBI TaxID: 233412  
FASTA Abbreviation: gpHduc3

Accession	Date
NC_002940	2001-10-24

*Haemophilus influenzae*

Status: Complete  
NCBI TaxID: 71421  
FASTA Abbreviation: gpHinf\_

Accession	Date
NC_000907	2001-10-19

*Haemophilus influenzae 86 028NP*

Status: Complete  
NCBI TaxID: 281310  
FASTA Abbreviation: gpHinf8

Accession	Date
NC_007146	2005-06-27

*Haemophilus influenzae R2846*

Status: Draft  
NCBI TaxID: 262727  
FASTA Abbreviation: gpHinf4

Accession	Date	Description
NZ_AADO00000000	2004-02-19	WGS

*Haemophilus influenzae R2866*

Status: Draft  
NCBI TaxID: 262728  
FASTA Abbreviation: gpHinf6

Accession	Date	Description
NZ_AADP00000000	2004-02-19	WGS

*Haemophilus somnus 129PT*

Status: Draft  
NCBI TaxID: 205914  
FASTA Abbreviation: gpHsom1

Accession	Date	Description
NC_006298	2004-09-22	plasmid pHS129
NZ_AABO00000000	2003-02-11	WGS

*Haemophilus somnus 2336*

Status: Draft  
NCBI TaxID: 228400  
FASTA Abbreviation: gpHsom2

Accession	Date	Description
NZ_AACJ00000000	2003-06-19	WGS

*Idiomarina loihiensis L2TR*

Status: Complete  
NCBI TaxID: 283942  
FASTA Abbreviation: gpIloiL

Accession	Date
NC_006512	2004-12-09

*Legionella pneumophila Lens*

Status: Complete  
NCBI TaxID: 297245  
FASTA Abbreviation: gpLpneL

Accession	Date	Description
NC_006366	2004-10-19	plasmid pLPL
NC_006369	2004-10-19	

*Gammaproteobacteria (continued)*

*Legionella pneumophila Paris*

Status: Complete  
NCBI TaxID: 297246  
FASTA Abbreviation: gpLpneP

Accession	Date	Description
NC_006365	2004-10-19	plasmid pLPP
NC_006368	2004-10-19	

*Legionella pneumophila Philadelphia 1*

Status: Complete  
NCBI TaxID: 272624  
FASTA Abbreviation: gpLpne1

Accession	Date
NC_002942	2001-10-15

*Mannheimia succiniciproducens MBEL55E*

Status: Complete  
NCBI TaxID: 221988  
FASTA Abbreviation: gpMsucM

Accession	Date
NC_006300	2004-09-22

*Methylococcus capsulatus Bath*

Status: Complete  
NCBI TaxID: 243233  
FASTA Abbreviation: gpMcapB

Accession	Date
NC_002977	2001-06-25

*Pasteurella multocida*

Status: Complete  
NCBI TaxID: 272843  
FASTA Abbreviation: gpPmul\_

Accession	Date
NC_002663	2001-09-10

*Photobacterium profundum SS9*

Status: Complete  
NCBI TaxID: 298386  
FASTA Abbreviation: gpPpros

Accession	Date	Description
NC_005871	2004-05-11	plasmid pPBPR1
NC_006370	2004-10-20	chromosome 1
NC_006371	2004-10-19	chromosome 2

*Photorhabdus luminescens*

Status: Complete  
NCBI TaxID: 243265  
FASTA Abbreviation: gpPlum\_

Accession	Date
NC_005126	2003-10-06

*Pseudomonas aeruginosa*

Status: Complete  
NCBI TaxID: 208964  
FASTA Abbreviation: gpPaerP

Accession	Date
NC_002516	2001-09-10

*Pseudomonas aeruginosa UCBPP-PA14*

Status: Draft  
NCBI TaxID: 208963  
FASTA Abbreviation: gpPaerU

Accession	Date	Description
NZ_AABQ00000000	2003-06-19	WGS

*Gammaproteobacteria (continued)*

*Pseudomonas fluorescens Pf-5*

Status: Complete  
NCBI TaxID: 220664  
FASTA Abbreviation: gpPflu5

Accession	Date
NC_004129	2002-08-21

*Pseudomonas fluorescens PfO-1*

Status: Draft  
NCBI TaxID: 205922  
FASTA Abbreviation: gpPflu1

Accession	Date	Description
NZ_AAAT00000000	2004-06-15	WGS

*Pseudomonas putida KT2440*

Status: Complete  
NCBI TaxID: 160488  
FASTA Abbreviation: gpPputK

Accession	Date
NC_002947	2002-02-14

*Pseudomonas syringae*

Status: Complete  
NCBI TaxID: 223283  
FASTA Abbreviation: gpP syr\_

Accession	Date	Description
NC_004578	2003-03-06	
NC_004632	2003-03-25	plasmid pDC3000B
NC_004633	2003-03-25	plasmid pDC3000A

*Pseudomonas syringae pv B728a*

Status: Complete  
NCBI TaxID: 205918  
FASTA Abbreviation: gpPsyrP

Accession	Date
NC_007005	2005-05-17

*Psychrobacter sp. 273-4*

Status: Draft  
NCBI TaxID: 259536  
FASTA Abbreviation: gpP273\_

Accession	Date	Description
NZ_AADI00000000	2004-02-03	WGS

*Saccharophagus degradans 2-40*

Status: Draft  
NCBI TaxID: 203122  
FASTA Abbreviation: gpSdeg2

Accession	Date	Description
NZ_AABI00000000	2004-06-17	WGS

*Salmonella enterica Choleraesuis*

Status: Complete  
NCBI TaxID: 321314  
FASTA Abbreviation: gpSentC

Accession	Date	Description
NC_006855	2005-02-23	plasmid pSCV50
NC_006856	2005-02-23	plasmid pSC138
NC_006905	2005-04-04	

*Gammaproteobacteria (continued)*

*Salmonella enterica Paratyphi ATCC 9150*

Status: Complete  
NCBI TaxID: 295319  
FASTA Abbreviation: gpSentP

Accession	Date
NC_006511	2004-12-08

*Salmonella typhi*

Status: Complete  
NCBI TaxID: 220341  
FASTA Abbreviation: gpStyp\_

Accession	Date	Description
NC_003198	2001-11-07	
NC_003384	2001-10-26	plasmid pHCM1
NC_003385	2001-10-26	plasmid pHCM2

*Salmonella typhi Ty2*

Status: Complete  
NCBI TaxID: 209261  
FASTA Abbreviation: gpStypT

Accession	Date
NC_004631	2003-03-21

*Salmonella typhimurium LT2*

Status: Complete  
NCBI TaxID: 99287  
FASTA Abbreviation: gpStypL

Accession	Date	Description
NC_003197	2001-11-07	
NC_003277	2001-10-26	plasmid pSLT

*Shewanella oneidensis*

Status: Complete  
NCBI TaxID: 211586  
FASTA Abbreviation: gpSone\_

Accession	Date	Description
NC_004347	2002-09-12	
NC_004349	2002-09-12	plasmid pMR-1

*Shigella flexneri 2a*

Status: Complete  
NCBI TaxID: 198214  
FASTA Abbreviation: gpSfle2

Accession	Date	Description
NC_004337	2002-10-16	
NC_004851	2003-06-19	plasmid pCP301

*Shigella flexneri 2a 2457T*

Status: Complete  
NCBI TaxID: 198215  
FASTA Abbreviation: gpSfleT

Accession	Date
NC_004741	2003-04-23

*Vibrio cholerae*

Status: Complete  
NCBI TaxID: 243277  
FASTA Abbreviation: gpVcho\_

Accession	Date	Description
NC_002505	2001-09-10	chromosome I
NC_002506	2001-09-10	chromosome II



*Gammaproteobacteria (continued)*

*Vibrio fischeri ES114*

Status: Complete  
NCBI TaxID: 312309  
FASTA Abbreviation: gpVfisE

Accession	Date	Description
NC_006840	2005-02-14	chromosome I
NC_006841	2005-02-14	chromosome II
NC_006842	2005-02-14	plasmid pES100

*Vibrio parahaemolyticus*

Status: Complete  
NCBI TaxID: 223926  
FASTA Abbreviation: gpVpar\_

Accession	Date	Description
NC_004603	2003-03-10	chromosome I
NC_004605	2003-03-10	chromosome II

*Vibrio vulnificus CMCP6*

Status: Complete  
NCBI TaxID: 216895  
FASTA Abbreviation: gpVvulC

Accession	Date	Description
NC_004459	2002-12-23	chromosome I
NC_004460	2002-12-23	chromosome II

*Vibrio vulnificus YJ016*

Status: Complete  
NCBI TaxID: 196600  
FASTA Abbreviation: gpVvulY

Accession	Date	Description
NC_005128	2003-10-09	plasmid pYJ016
NC_005139	2003-10-15	chromosome I
NC_005140	2003-10-15	chromosome II

*Wigglesworthia brevipalpis*

Status: Complete  
NCBI TaxID: 36870  
FASTA Abbreviation: gpWbre\_

Accession	Date	Description
NC_003425	2002-03-02	plasmid pWb1
NC_004344	2002-10-24	

*Xanthomonas campestris*

Status: Complete  
NCBI TaxID: 190485  
FASTA Abbreviation: gpXcam\_

Accession	Date
NC_003902	2001-11-28

*Xanthomonas campestris 8004*

Status: Complete  
NCBI TaxID: 314565  
FASTA Abbreviation: gpXcam8

Accession	Date
NC_007086	2005-05-27

*Xanthomonas citri*

Status: Complete  
NCBI TaxID: 190486  
FASTA Abbreviation: gpXcit\_

Accession	Date	Description
NC_003919	2001-11-28	
NC_003921	2002-05-23	plasmid pXAC33
NC_003922	2002-05-23	plasmid pXAC64

*Gammaproteobacteria (continued)*

*Xanthomonas oryzae KACC10331*

Status: Complete  
NCBI TaxID: 291331  
FASTA Abbreviation: gpXoryK

Accession	Date
NC_006834	2005-02-04

*Xylella fastidiosa*

Status: Complete  
NCBI TaxID: 160492  
FASTA Abbreviation: gpXfas\_

Accession	Date	Description
NC_002488	2001-10-02	
NC_002489	2000-06-02	plasmid pXF1.3
NC_002490	2000-06-02	plasmid pXF51

*Xylella fastidiosa Ann-1*

Status: Draft  
NCBI TaxID: 155920  
FASTA Abbreviation: gpXfasA

Accession	Date	Description
NZ_AAAM000000000	2002-09-17	WGS

*Xylella fastidiosa Dixon*

Status: Draft  
NCBI TaxID: 155919  
FASTA Abbreviation: gpXfasD

Accession	Date	Description
NZ_AAAL000000000	2002-09-17	WGS

*Xylella fastidiosa Temecula1*

Status: Complete  
NCBI TaxID: 183190  
FASTA Abbreviation: gpXfast

Accession	Date	Description
NC_004554	2003-02-01	plasmid pXFPD1.3
NC_004556	2003-02-03	

*Yersinia pestis CO92*

Status: Complete  
NCBI TaxID: 214092  
FASTA Abbreviation: gpYpesC

Accession	Date	Description
NC_003131	1999-09-03	plasmid pCD1
NC_003132	1999-08-19	plasmid pPCP1
NC_003134	1999-09-06	plasmid pMT1
NC_003143	2001-10-15	

*Yersinia pestis KIM*

Status: Complete  
NCBI TaxID: 187410  
FASTA Abbreviation: gpYpesK

Accession	Date
NC_004088	2002-07-29

*Yersinia pestis biovar Mediaevails*

Status: Complete  
NCBI TaxID: 229193  
FASTA Abbreviation: gpYpesB

Accession	Date	Description
NC_005810	2004-03-15	
NC_005813	2004-03-16	plasmid pCD1
NC_005814	2004-03-16	plasmid pCRY
NC_005815	2004-03-16	plasmid pMT1
NC_005816	2004-03-16	plasmid pPCP1

*Gammaproteobacteria (continued)*

*Yersinia pseudotuberculosis IP32953*

Status: Complete

NCBI TaxID: 273123

FASTA Abbreviation: gpYpseI

Accession	Date	Description
NC_006153	2004-08-30	plasmid pYV
NC_006154	2004-08-30	plasmid pYptb32953
NC_006155	2004-08-30	

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**Magnetococcus**

*Magnetococcus sp. MC-1*

Status: Draft

NCBI TaxID: 156889

FASTA Abbreviation: mpMMC\_

Accession	Date	Description
NZ_AAAN00000000	2005-07-06	WGS