Tolypothrix UAM335/Nostoc Gunnera/Aphanizomenon NH-5/Oscillatoriopsis ES0883350/Anabaena SYKE748/Nodularia HBU11-16/Uncultured
Calothrix CCAP 1410-1/Nodularia CDAC1983/300/Anabaena CCNP1406/Anabaenopsis LMECYA 2/Nostoc PCC 8112/Cyanospira NMBCI/Cyanocohnitella CCALA 1049
KMI139523 Scytonema bohneri SAG 255.80
JN288288 Calothrix sp. HA4356-MV2
GQ369628 Gloeotrichia sp. PMC236-04
AY742448 Nostoc sp. 8941
HM751848 Tolypothrix sp. UAM-333
HQ398385 Uncultured cyanobacterium
AM230703 Gloeotrichia echinulata PY16
HQ398386 Uncultured cyanobacterium
Nodularia HBU27/Aphanizomenon ZL727/Limezakka TAC611/Anabaena bergii ZIE26AB/Uncultured
Trichormus UIC 10339/Anabaena Sa001
Aphanizomenon LMECYA 163/Anabaena CHAB1381/Scytonema UCF15/Anabaena 1lc34a7/Nodularia CCAP* 1452-6/Uncultured
Anabaena LMECYA 165/Nostoc NC8/Rivularia 9FA13/Hydrocoryne CENA336/Calothrix BEC18D3/Uncultured PMC154.02
Fischerella CENA19/Anabaena CAWBG026/pseudanabaena MBIC10772/Trichormus HAT28/Dolichospermum CHAB2307/Uncultured
GU197637 Dolichospermum planctonicum CHAB2309
JX006089 Uncultured Aphanizomenon
Anabaena UTEX B 1616
GU434226 Wollea saccata ACCS-045
Nostoc LEGE 06150/Fortiea HA421-MV2/Calothrix CAWBG80/Tolypothrix PCC 7504/Anabaena 133/Uncultured
Anabaena 1L7270S2/Nostoc 996/Dolichospermum CHAB 2307/Uncultured
KC462644 Uncultured cyanobacterium
DQ514606 Uncultured cyanobacterium
DQ514607 Uncultured cyanobacterium
Nostoc CCAP 1453-28/Scytonemopsis HYU H2/Stigonema CBFS-A-62B/Cylindrospermum CENA33/Desmonostoc 7N/Uncultured
Microchaete SATA7 93/Trichormus HA4352/Nostoc HKAR-6/Anabaena IndS/Cylindrospermum CCALA 998/Dolichospermum A3
Cylindrospermopsis raciborskii T3/Raphidiopsis CHAB341
Nostoc/HTI3011/Calothrix MIDU013
JX966134 Nostoc sp. NOUPC003
KM510231 Anabaena oryzae BTA14
AY218827 Nostoc muscorum CENA18
JF925315 Nostoc sp. CYN73
EU852189 Aulosira sp. ISB-2
Desmonostoc 52/1/Nostoc Cam2501/Mojavia JT2-VF2
DQ897365 Cylindrospermum sp. A1346
Nostoc IE-03/Calothrix PCC7507
DQ514614 Uncultured cyanobacterium
DQ513998 Uncultured cyanobacterium
EF174228 Nostoc sp. Peltonia aff. lapponia cyanobiont 2 Ch
JQ007765 Uncultured Nostoc
DQ514609 Uncultured cyanobacterium
KF359694 Nostoc sp. 'Protopeltonia pezizoides UK120 cyanobiont'
HQ189061 Uncultured cyanobacterium
FN811239 Uncultured cyanobacterium
Scytonematopsis UIS-MK38
Calothrix CYN0105/Scytonematopsis HA4267-MV1/Rivularia BIR-MGR-1/Uncultured
Rivulana PCC 7116/Calothrix PCC 7507/Scytonema LEGE 07189
Rivulana 7P/4/Calothrix PCC 7103
GQ483960 Uncultured cyanobacterium
GQ484162 Uncultured cyanobacterium
GQ483874 Uncultured cyanobacterium
Calothrix BEC03/Uncultured
Leptolyngbya TAA-2/A1-27/Uncultured
Chlorogloeopsis PCC6210
HQ947563 Calothrix sp. HA4236-MV1
AM230694 Calothrix sp. CAL2303
Microchaete tenera/Uncultured
Komvophoron hindakii
Anabaenaria BF1/Trichormus 'dolistum 1'/Uncultured
Chroococcidiopsis DD4/Mastigocladus B6A/Fischerella JS3/Nostochopsis 89-45/Hapalosiphon SAMA 45/Westiellopsis NTVKA55/Uncultured
Hassalia CNP3-B3-G04/Spirirestis clone 143/Mastigocladopsis MORA/Scytonema U41-MK36/Tolypothrix FIS/Symphonema 1269-1/Petalonema CBFS-A-03B/Uncultured
Tolypothrix CNP3-B1-C1/Godleya LCR-CY2/Hassallia CCALA 823/Uncultured
Tolypothrix UAM 357/Uncultured
Tolypothrix UFS-B5-NPMV-1A2-F06/Uncultured
Hassallia C76/Nostoc CAT-1/Mastigocoleus BC008/Uncultured
HQ290640 Mastigocoleus testarum BC008
Uncultured
Brasilonema CENA114/Nostoc CYN63/Petalonema HA4277/Scytonema P15-MK34/Cylindrospermum HA4236-MV2/Uncultured
Stigonema B3
GQ869605 Cylindrospermum sp. PMC185-03
KJ396069 Cylindrospermum sp. NOUPC005
Sphoe LI22-B1/Uncultured
Stigonematales cyanobacterium
KC682102 Stigonematales cyanobacterium
Tolypothrix UAM-392-1/Uncultured
Calothrix PCC 7103/Rivularia MUZA-UAM-305/Uncultured
Calothrix Aska 1/Nostoc CAWBG79/Dichothrix SAG 32.92/Uncultured
Chalka ciliosa 5
Phormidium IAM-M-71/Oscillatoria MMG-2/Lyngbya H3b-7/Chroococcus VP2-07/Uncultured
Geitlerinema P01/4/Chlorogloea SAG 10.99/Cinetium UMPCCC 111/Uncultured
KM020002 Rhabdogloea smithii SAG 47.91
Microcoleus JO1-1A/Trichocoleus SAG 26.92/Uncultured
HM224431 Uncultured cyanobacterium
phormidium UTEX 1580/Oscillatoria SAG 77.79/Aerosakkonema Lac35/Uncultured
Uncultured
Uncultured
Pseudanabaena PCC 7403/Synechococcus PCC 7502/Phormidium IAM-M-221/Arthronema UTCC 393/Anabaena NIES78/Limnothrix NIVA CYA 227/Uncultured
Leptolyngbya GSE-PSE46-15A-1/Limnothrix ENCB-AB02/Uncultured
Uncultured
KP156800 Uncultured Spirulina
Oscillatoria SPI01/Leptolyngbya WJT36-NPbg13-16/Pseudanabaena ES-Yyy1300/Uncultured
DQ058503 Leptolyngbya sp. Hindak 1982/12
Phormidium PMC201/Leptolyngbya CYN66/Uncultured
Uncultured
DQ513996 Uncultured cyanobacterium
Cyanobacterium OU-20/Uncultured
GQ483983 Uncultured cyanobacterium
Loriellopsis LF-GS-1/Cyanobacterium OSC/Uncultured
Uncultured
KF923267 Uncultured cyanobacterium
FJ750611 Uncultured Oscillatoriales
Berkeleya A2[6]/Phormidesmis NO97/Lyngbya YC11109/Uncultured
Anabaena FKGSAK6/Cyanothece MMG/Gloeobacter MMG/Starria SAG 74.96/Microcystis SAG 43.90/Uncultured
Uncultured
Phormidium SAG 81.79/Oscillatoria PCC 6304/Geitlerinema PCC 7407/Uncultured
Geitlerinema DSC17/Leptolyngbya DAC9/Uncultured
Leptolyngbya LEGE 07170/Uncultured
Plankktothrix INBaOR/Phormidium LEGE 06100/Uncultured
JN873300 Nostoc calcicola ISC89
Microcoleus FBS-1/Uncultured
Phormidium 00081_00001/Microcoleus CSV2-N-1/Uncultured
Oscillatoria DV-00-7/Spirulina CCC Snake P/Phormidium B-tom/Uncultured
AF355382 Microcoleus steenstrupii clone 151-4A
KC311872 Uncultured Microcoleus
EF654065 Symplocastrum torsivum CPER-KK1
Microcoleus DA/Symplocastrum WJT32-NPBG/Uncultured
Microcoleus HTT-U-KK5/Uncultured
KC329587 Uncultured Microcoleus
Chroococcidiopsis CC2/Uncultured
Chroococcidiopsis BB96/Uncultured
Chroococcidiopsis CCME E-29-1/Myxosarcina SAG 30.84/Uncultured
Phormidium 00511-0001/Uncultured
Uncultured
EF032781 Uncultured cyanobacterium
HM217570 Microcoleus sp. LEGE 07092
Pleurocapsa 14-08/Uncultured
Chroococcidiopsis UFS-A4/Lit/Uncultured
Uncultured
Chroococcidiopsis CC1/Uncultured
Uncultured
Microcoleus SAG 1449-1/Oscillatoria SAP/Desertifilum PD2001-7/DC1/Uncultured
Oscillatoria ETS-08/Phormidium UTCC 579/Uncultured
Scytonema HKAR-3/Uncultured
Calothrix BEC/D21
Uncultured
Scytonema WJT4-NPBG1/Microcoleus FI-LIZ3/Uncultured
Chroococcidiopsis SAG 39.79/Gloeocapsa HKAR 9/Uncultured
Uncultured
Chamaesiphon SAG 32.87/Uncultured
Taponothrix GSE-PSE06-07G/Leptolyngbya CCALA 085/Aphanothece LEGE 06141/Romeria LEGE 06013/Synechococcus G2
Leptolyngbya SE/4-3-C1/Plectonybya ANT.LPR2/Phormidium COMES2077/Leptothrix SAG 33.92/Uncultured
AM398797 Oscillatoriaceae cyanobacterium CCMEE315
KM462588 Uncultured Leptolyngbya
AB512145 Uncultured Pseudophormidium
Uncultured
AF317505 Oscillatoria amphigranulata strain 23-3
Uncultured
EF426012 Uncultured cyanobacterium
EF426015 Uncultured cyanobacterium
AB512146 Uncultured Phormidium
KJ192051 Uncultured Oscillatoriales cyanobacterium
EF426088 Leptolyngbya appalachiana GSM-SFF-MF60
DQ431004 Cf. Leptolyngbya sp. Greenland-9
KC523090 Phormidesmis sp. WJT36-NPBG27
FJ484826 Uncultured cyanobacterium
FJ484815 Uncultured cyanobacterium
EF032779 Uncultured cyanobacterium
Phormidesmis ATA1-4-CV6/Leptolyngbya TAA2-2/A3-12-16
GU053449 Leptolyngbya sp. Sa001
GU935350 Leptolyngbya sp. Sa002
Leptolyngbya CR-L21/Plankktothrix FMC271
JX887885 Uncultured cyanobacterium
JX887887 Uncultured cyanobacterium
Uncultured
JX887889 Uncultured cyanobacterium
Uncultured
AF076161 Uncultured Antarctic bacterium
AF076158 Uncultured Antarctic bacterium
AM940608 Uncultured cyanobacterium
AY151728 Uncultured Antarctic cyanobacterium
DQ181676 Uncultured cyanobacterium
DQ181597 Uncultured cyanobacterium
DQ181673 Uncultured cyanobacterium
Leptolyngbya ANT.LS3B.2/Phormidesmis WJT24-NPBG2/Pseudanabaena UTCC 471/Uncultured
Mesorhizobium sphagnicola Sy1/Leptolyngbya CCIBT0495/Uncultured
Leptolyngbya Greenland 10/Uncultured
DQ393090 Pseudanabaena constantiae KM1c
AB512146 Uncultured Leptolyngbya
AY151732 Uncultured Antarctic cyanobacterium
Pseudophormidium ATA5-1-5/Leptolyngbya SV1-MK-4/Uncultured
Leptolyngbya NB1-c1/Uncultured
Nodosilinea CENA 546/Leptolyngbya LEGE 06126/Phormidium MBIC10025/Spirulina SAT 2.56/Oscillatoria CCMEE-416/Uncultured
HM748584 Uncultured cyanobacterium
JX069309 Hatomicronema hongdechunia strain C2206
Uncultured
DQ243430 Filamentous cyanobacterium GSL03
Phormidium CCNP 1317/Synechococcus MBIC10598/Leptolyngbya LEGE3 7075/pseudanabaena LEGE 07160/Pseudophormidium ANT.LPE.3.16/Gloeocapsa LEGE 06192/Uncultured
Phormidium LEGE 11384/Leptolyngbya CCAP1442-1/Uncultured
AB058224 LPP group MBIC10086
HM448280 Phormidium rubidum A09DM
HQ832930 Pseudanabaena sp. LEGE 06116
EU249121 Leptolyngbya sp. HBK3
KM218869 Leptolyngbya sp. UMPCCC-1224
Leptolyngbya PCC 7375/Pseudanabaena CCMEE 5435/Uncultured
Leptolyngbya CR-13/Calothrix 96-26-LPP3/Uncultured
KC140132 Cyanobacterium PK07
FJ947844 Cyanobacterium PK0F
AF219946 Synechocystis PCC 7902
Nanoluna GL50109/Pleurocapsa PCC 7327/Gloeocalitta CCALA 975/Uncultured
Annamia HO524/Uncultured
Crocosphaera WH 8501/Cyanothece WH 8902/Gloeocapsa KO36CU6/Aphanothece HS/Gloeothece 9K40/Pleurocapsa VP3-02-pa/Uncultured
Pleurocapsa VP3-02b-pi/Uncultured
AB774154 Cyanothece sp. Vietnam 01
X76668.G. membranacea
AM710398 Radiocystis sp. J230-12
Arthrospira PCC 9901/Uncultured
Lyngbya PCC 7419/Uncultured
Lyngbya LEGE 07165/Uncultured
Oscillatoria SAG 1459-8/Leptolyngbya Huber 1974/223/Uncultured
Geitlerinema PCC 7105/Phormidium OL-75/Lyngbya LC-14/Uncultured
Synechocystis PLV1/Merismopedia AICB1014/Uncultured
Synechococcus KUAC 3049/Phormidium OL-54/Leptolyngbya PCC 7376/Uncultured
KC695982 Cyanobacterium sp. CENA169
JX406516 Uncultured cyanobacterium
JX455482 Uncultured cyanobacterium
Synechocystis LEGE 07086/Uncultured
Merismopedia CCAP 1448/3/Synechocystis CCALA 700/Uncultured
Snowella OTU3550?/Woronichinia 12/Merismopedia PMC260-06/Uncultured
HQ832899 Phormidium sp. LEGE 07162
HQ832917 Leptolyngbya fragilis LEGE 07167
HQ832929 Phormidium sp. LEGE 06111
Spirina SAG 74.80/Cyanosarcina SAG 202.89/Homoeothrix SAG 1407-1/Uncultured
Uncultured
Microcoleus sspp. CCALA 757/Pantokrithis spp. HAB 37/Uncultured
Komvophoron CCALA 781/Geitlerinema CCALA 1383/Uncultured
Oxynema CCALA 980/Microcoleus MOA3-1A/Phormidium AR9K2/Oscillatoria U 59/k/Uncultured
EU199627 Geitlerinema cf. acuminatum CCALA 141
EF545604 Geitlerinema sp. CR-13M
AF244499 Phormidesmae cyanobacterium CENA533
Okeania NAC8-45/Moorea PNG6-24/Symploca misty1-4/mo35/Lyngbya LP6
JF799572 Hydrocoleum sp MP1
AB863134 Oscillatoria sp. zan1mo51
AB863128 Symploca sp. miya1-2mo41
DU239272 Hydrocoleum glutinosum M34
KC986932 Okeania lorea BCSC12-1
KC196268 Okeania lorea FK12-17
KC986931 Okeania lorea FK12-25
DU239270 Hydrocoleum glutinosum M2
Oscillatoria SAG74.79/Hydrocoleum MS/Okeania PAC-18
Hydrocoleum M17/Oscillatoria PAL08/Lyngbya BAN-TS17/Trichodesmium IMS101/Uncultured
GB59056 Okeania sp. PAC-18
HM072002 Uncultured Oscillatoria
AJ445603 Phormidium sp ETS-05
Oscillatoria sponginae 518bg/Aphanocapsa feldmanii/Hormoscilla spongeliae DRT0-57.2/Uncultured
Pseudocolumna corallicola 8gP19/Oscillatoria DV-00-5/Uncultured
HQ189093 Uncultured cyanobacterium
JN007218 Uncultured cyanobacterium ods1mo59
Coleofasciculus chthonoplastes SAG 2208/Leptolyngbya fragilis LEGE 07176/Uncultured
GU213185 Uncultured Microcoleus
EF654031 Microcoleus chthonoplastes EBD
EF654089 Microcoleus chthonoplastes SAG 39.98
GQ452002 Microcoleus chthonoplastes CCY9606
Coleofasciculus chthonoplastes HUW 15/Uncultured
Limnothrix adunca ATA6-11-RM4-16
KC483199 Leptolyngbya cf. compacta EcFYyy_10
EF683073 Uncultured cyanobacterium
KM519999 Gomphosphaeria aponina SAG 52.96
DQ460793 Chroococcus turgidus HUW 799
JQ013022 Uncultured cyanobacterium
AF355365 Microcoleus steenstrupii clone 177-7A
AF355360 Microcoleus steenstrupii clone 177-7B
KF746590 Caldora penicillata BOBC11-25
Pleurocapsa PCC 7319/Myxosarcina PCC 7325/Starria PCC 7301/Chroococcidiopsis LEGE 06174/Dermatocarpella KOIST 1/Uncultured
KJ746558 Gloeocapsa sp. ACB1013
KJ439051 Spirulina sp. DRTO 55-2
KC342459 Komvophoron Ngari Wanggoota Creek
KM519967 Chroococcopsis gigantea SAG 12.99
JQ950581 Uncultured cyanobacterium
Moorea spp.
DQ370549 Chroococcus cf membraninus CCALA 054
GQ464302 Uncultured cyanobacterium
Xenococcus PCC 7305/Uncultured
HM072003 Uncultured Symploca
JX458089 cf. Symploca sp. PAC-19
Starrena cyanophora CR-L30/Symploca PCC 8002/Lyngbya UTEX LB 2515
AY959270 Uncultured cyanobacterium
Hyella LEGE 07179/Uncultured
GQ483991 Uncultured cyanobacterium
DQ845200 Oscillatoria boryana BDU92181
KM507209 Oscillatoria sp. NTGM13
FN687062 Uncultured cyanobacterium
Johansenia constricta
AY463598 Chondrocystis sp ANT.LS9B.1
Chondrocystis ANT.LS9B.1/Chroococcidiopsis CCMP1991/Pleurocapsa SCyano22/Gloeocapsopsis crepidinum BDH9U/Uncultured
Halospirulina MPI-53/Spirulina EEW1/Uncultured
Chroococcus CCALA057
Chroococcidiopsis PCC8712/Uncultured
DQ889918 Uncultured Xenococcus
Halothece PCC 7418/Euhalothece BDU130192/Uncultured
AJ000710 Euhalothece sp. MPI 95AH13
Dactylococcopsis salina PCC 8305/Cyanothece 109/Uncultured
DQ330764 Uncultured cyanobacterium
EF158448 Uncultured cyanobacterium
Uncultured
Uncultured
EF666049 Uncultured Cyanothece
EF599063 Uncultured Cyanothece
AJ000734 Halothece sp. MPI 96P605
DQ058891 Halothece sp. PCyano42
EF128140 Rubidibacter lacunae KORDI 51-2
KM109654 Uncultured Coleofasciculus sp.
AB863135 Symploca sp. zanmo54
JX481736 Symploca sp. RS04
Microcystis NIES89/Microcystis spp./Uncultured
KF668649 Pannus brasiliensis CCIB35594-16
JN983663 Uncultured cyanobacterium
JN983662 Uncultured cyanobacterium
KM519990 Chroogloea purpurea SAG 13.99
Geitlerinema carolinosum P013/G. pseudocatenatum P004/Uncultured
Gloeocapsa PCC73106/Uncultured
Ammassolinea attenuata
KC695846 Chroogloea sp. CENA150
KC695946 Chroogloea sp. CENA152
KC463182 Microcoleus cf. chthonoplastes Ea_Yyy1100
KC463362 Uncultured cyanobacterium
EF599020 Uncultured Symploca
KC267036 Uncultured Leptolyngbya
KF746602 Calothrix penicillata PA12-20
KC267505 Uncultured Symploca sp clone FK
Symploca VPB2-1o/VP377
Uncultured
Uncultured
Uncultured
Uncultured
HM224423 Uncultured cyanobacterium
GQ406144 Uncultured cyanobacterium
JX088100 Cf. Wilmottia sp. CAWBG022
AB602500 Uncultured cyanobacterium
Wilmottia CYN75/Uncultured
Limnothrix CENA545/Geitlerinema Lemmermannii P-SA/Jaaginema homogeneum FMC252/Uncultured
Leptolyngbya antarctica ANT.LF8.1/Uncultured
Uncultured
HM217057 Phormidium sp. LEGE 07310
AB058200 Phormidium sp. MBIC10002
KM218878 Synechococcus sp. UMPCCC-1210
HQ410048 Uncultured cyanobacterium
Synechococcus LEGE 07171/Uncultured
Aphanocapsa musicola VP3-03/Acaryochloris JJ7-5/Synechococcus SAG 15.90
Acaryochloris marina/Ca. Acaryochloris bahamie
Pinocchia polymorpha/Uncultured
Uncultured
Uncultured
Trichocoleus desertorum/Leptolyngbya badia CRS1
Hormoscilla Synechococcus PCC 6717/Uncultured
Prochlorothrix hollandica PCC 9029/Uncultured
Uncultured
AB935839 Uncultured cyanobacterium
DQ450103 Uncultured cyanobacterium
Uncultured
KM109667 Uncultured Prochlorothrix sp. clone SBK26
HM474901Uncultured cyanobacterium
Leptolyngbya LEGE PCC 8207/Pseudanabaena CONP 1311/Uncultured
Uncultured
Geitlerinema PCC 8501/Oscillatoria OH 25/Leptolyngbya CENA538
Uncultured
Leptolyngbya saxicola LEGE 04131/Halomicronema TFEP1/Uncultured
EF545639 Leptolyngbya sp. CR-L26
EF545630 Leptolyngbya sp. CR-L14
FJ517069 Uncultured cyanobacterium
Marine picoplanktic Synechococcus/
Prochlorococcus/Cyanobium
Ca. Synechococcus spongiarum
DQ226004 Uncultured cyanobacterium
AB853114 Lyngbya sp. ala2mo30
HQ832902 Schizothrix aff. sepherntonata LEGE 07164
KF417644 Uncultured Chroococcales cyanobacterium
JX382286 Schizothrix arenaria HA4233 MV5
KC621875 Oscillatoriales cyanobacterium HSW-1
Uncultured
Uncultured
Plankktothrix/Lyngbya ENGB AA09/Leptolyngbya CR-L19/Limnothrix BTA-199/Uncultured
HQ410057 Uncultured cyanobacterium
Uncultured
EF205448 Uncultured Synechococcus
thermal Synechococcus OH 28/Uncultured
Synechococcus PCC 7336/Uncultured
Uncultured
AB334271 Uncultured
AB334273 Uncultured
Cyanobacterium TDX/Uncultured
EF032784 Uncultured Gloeobacter
Gloeobacter VP5_31/Aphanothece calcitorarum
NR_074282 Gloeobacter violaceus PCC 7421
0.2