

Table S1. Names of taxa with accession numbers from GenBank database used in the phylogenetic analysis.

Accession number	Name of taxa
AF132791	<i>Gloeobacter violaceus</i> PCC 8105
AB039010	<i>Geitlerinema</i> PCC7105
AB039012	<i>Leptolyngbya</i> PCC7104
AB039020	<i>Pseudanabaena</i> PCC7408
AB045929	<i>Limnothrix redekei</i> NIVA–CYA 227/1
AB058201	<i>Phormidium</i> sp. MBIC10003
AB058209	LPP–group MBIC10012
AB058225	LPP–group MBIC10087
AB115963	<i>Pseudanabaena persicina</i>
AB115965	<i>Crinalium magnum</i> SAG 34.87
AB510147	<i>Phormidium</i> sp. KS
AF091322	<i>Trichodesmium hildebrandtii</i>
AF132793	<i>Leptolyngbya boryana</i> UTEX ,B 485‘
AF218371	<i>Pseudanabaena tremula</i> UTCC 471
AF218372	<i>Leptolyngbya angustata</i> UTCC 473
AJ639890	<i>Spirulina major</i> 0BB36S18
AM709631	<i>Spirulina</i> sp. PCC 6313
AM709632	<i>Pseudanabaena</i> sp. PCC 6903
AY423710	<i>Geitlerinema carotinosum</i> AICB 37
AY493583	<i>Plectolyngbya hodgsonii</i> ANT.LPR2.2
AY493585	<i>Phormidium priestleyi</i> ANT.LPR2.6
AY493586	<i>Phormidium priestleyi</i> ANT.LACV5.1
AY493610	<i>Leptolyngbya frigida</i> ANT.L8.1
AY493612	<i>Leptolyngbya frigida</i> ANT.L52B.3
AY575935	<i>Spirulina subsalsa</i> PD2002/gca
DQ393280	<i>Arthrospira platensis</i> UTEX 2340
DQ393595	<i>Pseudanabaena constantiae</i>
DQ493872	<i>Phormidium murrayi</i> Ant–Ph58
DQ786166	<i>Leptolyngbya</i> sp. LLi18
EF429289	<i>Leptolyngbya boryana</i> PCC 6306
EF429297	<i>Leptolyngbya badia</i> CRS–1
EF545607	<i>Leptolyngbya</i> sp. CR_17M
EF654081	<i>Phormidium autumnale</i> SAG 35.90
EF654029	<i>Microcoleus</i> sp. DAI
EF654043	<i>Microcoleus chthonoplastes</i> SAH
EF654053	<i>Microcoleus chthonoplastes</i> WW5
EF654064	<i>Microcoleus vaginatus</i> CNP3–KK2
EF654070	<i>Microcoleus</i> sp. HTT–U–KK5
EF654075	<i>Microcoleus</i> sp. SAG 2212
EF654080	<i>Trichocoleus sociatus</i> SAG 26.92
EF654083	<i>Phormidium tergestinum</i> CCALA 155
EF654084	<i>Phormidium autumnale</i> SAG 78.79
EF654087	<i>Phormidium animale</i> SAG 1459–6
FR798935	<i>Leptolyngbya</i> sp. 1T12c
EU196624	<i>Oscillatoria</i> cf. <i>curviceps</i> Fkv–4
EU196627	<i>Geitlerinema</i> cf. <i>acuminat</i> CCALA 141

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EU196628	<i>Phormidium animale</i> CCALA 140
EU196629	<i>Geitlerinema</i> cf. <i>pseudacutissimum</i> CCALA 142
EU249122	<i>Symploca</i> sp. HBC5
EU249124	<i>Hydrocoleum lyngbyaceum</i> HBC7
EU445293	<i>Schizothrix</i> sp. PNG5–22
EU528669	<i>Leptolyngbya</i> sp. Kovacik 1986/5a
EU528671	<i>Leptolyngbya</i> sp. Kovacik 1990/37
EU852503	Uncultured Antarctic cyanobacterium clone TM4LUCG9
FJ159128	<i>Planktothrix agardhii</i> HAB 637
FM177494	<i>Leptolyngbya</i> sp. 2LT21S03
FM210757	<i>Leptolyngbya laminosa</i> ETS–08
FM210758	<i>Geitlerinema</i> sp. PCC 8501
FR667389	Uncultured bacterium clone Be_007
FR667531	Uncultured bacterium clone Gbe_058
FR798933	<i>Leptolyngbya</i> sp. VP3–07
GQ402025	<i>Symploca</i> sp. CCY0030
GQ402026	<i>Symploca atlantica</i> CCY9617
GQ859645	<i>Planktolyngbya limnetica</i> PMC271.06
GQ859646	<i>Jaaginema homogeneous</i> PMC252.05
GU724195	<i>Oscillatoria</i> sp. NAC8–18
GU935358	<i>Pseudanabaena</i> sp. Sai012
HM018677	<i>Nodosilinea epilithica</i> str. Kovacik1998/7
HM018678	<i>Nodosilinea</i> sp. FI2–2HA2
HM217080	<i>Leptolyngbya</i> sp. LEGE 07075
HM224444	Uncultured <i>Leptolyngbya</i> sp. clone DOL111C
HQ132933	<i>Leptolyngbya compacta</i> GSE–PSE28–08A
HQ132935	<i>Pseudanabaena minima</i> GSE–PSE20–05C
HQ132936	<i>Tapinothrix clintonii</i> GSE–PSE06–07G
HQ658457	<i>Annamia toxica</i> HOs24
HQ832899	<i>Phormidium</i> sp. LEGE 07162
HQ832916	<i>Leptolyngbya mycoidea</i> LEGE 07157
HQ832948	<i>Pseudanabaena</i> cf. <i>curta</i> LEGE 07160
HQ832949	<i>Leptolyngbya saxicola</i> LEGE 07170
HQ900689	<i>Okeania</i> sp. PAC–17–FEB–10–2
JF925320	<i>Wilmottia murrayi</i> CYN76
JN825313	Uncultured cyanobacterium clone Alchichica_AQ1_2_1B_46
JQ004023	<i>Limnothrix planktonica</i> CHAB753
JQ687331	<i>Leptolyngbya antarctica</i> CYN65
JQ712598	<i>Geitlerinema carotinosum</i> P013
JQ712602	<i>Geitlerinema splendidum</i> P014
JQ771628	<i>Phormidium</i> sp. DVL1003c
JQ712599	<i>Geitlerinema splendidum</i> P017
KC311899	<i>Pseudophormidium</i> sp. ATA2–1–KO12
KC342459	<i>Komvophoron kgarii</i> str. Wanggoolba Creek
KF246485	Pseudanabaenaceae cyanobacterium CENA518
KF246492	<i>Geminocystis</i> sp. CENA526
KF307604	<i>Trichocoleus desertorum</i> ATA4–8–CV2 clone consensus ACE

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KF307605	<i>Trichocoleus desertorum</i> ATA4–8–CV3 consensus ABE
KF417430	<i>Leptolyngbya</i> sp. HA7619_LM2
KM020004	<i>Pseudanabaena catenata</i> SAG 254.80
KM020005	<i>Pseudanabaena catenata</i> SAG 1464–1
NR_102446	<i>Pseudanabaena</i> PCC 7367
KP640604	<i>Pinocchia polymorpha</i> E5.1
KP640605	<i>Pinocchia polymorpha</i> E5.2
KP640606	<i>Pinocchia polymorpha</i> E5.4
KP640607	<i>Pinocchia polymorpha</i> E5.5
KP640608	<i>Pinocchia polymorpha</i> E5.6
KP640609	<i>Pinocchia polymorpha</i> E10.1
KP640610	<i>Pinocchia polymorpha</i> E10.2
KP640611	<i>Pinocchia polymorpha</i> E10.3
KP640612	<i>Pinocchia polymorpha</i> E10.4
KP640613	<i>Pinocchia polymorpha</i> E10.5
