

PMT\_1557\_Prochlorococcus\_marinus\_str.\_MIT\_9313\_MIT9313  
KME25\_15850\_Symplocastrum\_torsivum\_CPER-KK1  
Ct9333\_3265\_Crinalium\_epipsammum\_PCC\_9333  
PCC\_0017\_Synechococcus\_sp.\_JA-2-3Ba2-13\_JA-2-3Ba2-13  
PCC7424\_3650\_Gloeotheca\_citriformis\_PCC\_7424  
Cyan7822\_3544\_Gloeotheca\_verrucosa\_PCC\_7822  
Pie7327\_2270\_Pleurocapsa\_sp.\_PCC\_7327  
KME35\_13520\_Aphanocapsa\_sp.\_GSE-SYN-MK-11-07L  
Cyan7425\_0416\_Cyanotheca\_sp.\_PCC\_7425\_PCC\_7425  
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KME09\_24715\_Pleurocapsa\_minor\_HA4230-MV1  
Sta7437\_3379\_Stanteria\_cyanosphaera\_PCC\_7437  
KME25\_14690\_Symplocastrum\_torsivum\_CPER-KK1  
KME7113\_2983\_Microcoleus\_sp.\_PCC\_7113\_PCC\_7113  
PCC7424\_0735\_Gloeotheca\_citriformis\_PCC\_7424  
Cyan7822\_0703\_Gloeotheca\_verrucosa\_PCC\_7822  
KME47\_06070\_Nodosilinea\_sp.\_WJT8-NPBG4  
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KME01\_03540\_Chroococcus\_sp.\_CMT-3BRIN-NPC107  
KME59\_06165\_Scytormus\_sp.\_ATA11-4-KO1  
Chro\_5197\_Chroococciopsis\_thermalis\_PCC\_7203  
KME60\_10825\_Nostoc\_desertorum\_CM1-VF14  
KME55\_06380\_Nostoc\_indistinquendum\_CM1-VF10  
Npun\_F0229\_Nostoc\_punctiforme\_PCC\_73102\_ATCC\_29133\_PCC\_73102  
KME67\_29830\_Scytonema\_hyalinum\_WJT4-NPBG1  
KME38\_12390\_Spirirestis\_raphealensis\_WJT71-NPBG6  
KME31\_16435\_Tolypothrix\_carrinoi\_HA7290-LM1  
KME29\_32895\_Calothrix\_sp.\_F12-JR7  
Gio7428\_3000\_Gloeocapsa\_sp.\_PCC\_7428\_PCC\_7428  
KME13\_04075\_Myxocorys\_californica\_WJT36-NPBG1  
KME43\_05185\_Myxocorys\_chilensis\_ATA2-1-KO14  
KME18\_11390\_Oscillatoria\_tanganyikae\_F16-MK23  
KME10\_12865\_Plectolynbya\_sp.\_WJT66-NPBG17  
Cyan7425\_1736\_Cyanotheca\_sp.\_PCC\_7425\_PCC\_7425  
KME47\_20115\_Nodosilinea\_sp.\_WJT8-NPBG4  
Oscil6304\_3217\_Oscillatoria\_acuminata\_PCC\_6304  
KIL\_1997\_Gloeobacter\_kilaueensis\_JS1  
KME03\_01255\_Aphanocapsa\_lilacina\_HA4352-LM1  
Ct9333\_2147\_Crinalium\_epipsammum\_PCC\_9333  
KME11\_18855\_Timaviella\_obliquedivisa\_GSE-PSE-MK23-08B  
KME35\_05370\_Aphanocapsa\_sp.\_GSE-SYN-MK-11-07L  
KME15\_09045\_Droetiella\_hepatica\_UHER\_2000\_2452  
KME07\_02595\_Pegithrix\_bostrychoides\_GSE-TBD4-15B  
KME17\_17155\_Cyanosarcina\_radialis\_HA8281-LM2  
GEI7407\_1398\_Geittlerinema\_sp.\_PCC\_7407\_PCC\_7407  
cce\_4278\_Crocospaera\_subtropica\_ATCC\_51142  
KME08\_10675\_Aphanocapsa\_sp.\_CMT-3BRIN-NPC111  
KME19\_06620\_Microcoleus\_vaginatus\_WJT46-NPBG5  
Gio7428\_4027\_Gloeocapsa\_sp.\_PCC\_7428\_PCC\_7428  
KME32\_29230\_Mojavia\_pulchra\_JT2-VF2  
Nos7524\_2873\_Nostoc\_sp.\_PCC\_7524\_PCC\_7524  
Nos7107\_2730\_Nostoc\_sp.\_PCC\_7107\_PCC\_7107  
Ava\_1581\_Trichormus\_variabilis\_ATCC\_29413  
KME23\_01465\_Goleter\_apudmare\_HA4340-LM2  
KME7507\_3767\_Calothrix\_sp.\_PCC\_7507\_PCC\_7507  
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KME40\_05560\_Komarekiella\_atlantica\_HA4396-MV6  
KME52\_15750\_Desmonostoc\_geniculatum\_HA4340-LM1  
Npun\_F3745\_Nostoc\_punctiforme\_PCC\_73102\_ATCC\_29133\_PCC\_73102  
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KME55\_08545\_Nostoc\_indistinquendum\_CM1-VF10  
KME59\_17400\_Trichormus\_sp.\_ATA11-4-KO1  
ANA\_C11848\_Anabaena\_sp.\_90\_90  
AA650\_08520\_Anabaena\_sp.\_WA102\_WA102  
Anacy\_1693\_Anabaena\_cylindrica\_PCC\_7122  
Azo\_5057\_Nostoc\_azollae\_0708  
KME29\_32910\_Calothrix\_sp.\_F12-JR7  
Ct9333\_3059\_Calothrix\_sp.\_PCC\_6303  
KME64\_35120\_Scytonematopsis\_contorta\_HA4267-MV1  
IU00\_25060\_Calothrix\_sp.\_336\_3\_336\_3  
KME60\_06055\_Cyanomargarita\_calcareae\_GSE-NOS-MK-12-04C  
KME22\_27870\_Hassallia\_sp.\_WJT32-NPBG1  
KME38\_12370\_Spirirestis\_raphealensis\_WJT71-NPBG6  
KME31\_22325\_Tolypothrix\_carrinoi\_HA7290-LM1  
KME54\_20605\_Tolypothrix\_brevis\_GSE-NOS-MK-07-07A  
KME28\_21005\_Pelatocladus\_maninholoensis\_HA4357-MV3  
KME30\_24305\_Iphinoe\_sp.\_HA4291-MV1  
KME46\_16490\_Brasilonema\_angustatum\_HA4187-MV1  
KME49\_01425\_Brasilonema\_octagenarum\_HA4186-MV1  
KME33\_07310\_Aetokthonos\_hydrillicola\_B3-Florida  
KME57\_29850\_Scytonema\_hyalinum\_WJT4-NPBG1  
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Chro\_5475\_Chroococciopsis\_thermalis\_PCC\_7203  
KME01\_03535\_Chroococcus\_sp.\_CMT-3BRIN-NPC107  
KME12\_01220\_Trichocoleus\_desertorum\_ATA4-8-CV12  
Osc7112\_0265\_Oscillatoria\_nigro-iridis\_PCC\_7112  
KME16\_13410\_Scytolynbya\_sp.\_HA4215-MV1  
KME18\_22110\_Oscillatoria\_tanganyikae\_F16-MK23  
KME10\_12555\_Plectolynbya\_sp.\_WJT66-NPBG17  
KME13\_08175\_Myxocorys\_californica\_WJT36-NPBG1  
KME43\_14130\_Myxocorys\_chilensis\_ATA2-1-KO14  
KME45\_11035\_Stenomitos\_rutilans\_HA7619-LM2  
KME27\_28410\_Lyngbya\_sp.\_HA4199-MV5  
KME42\_08760\_Tildenella\_nuda\_ZEHNDER\_1965\_U140  
KME09\_17355\_Pleurocapsa\_minor\_HA4230-MV1  
Sta7437\_0753\_Stanteria\_cyanosphaera\_PCC\_7437  
MAE\_59060\_Microcystis\_aeruginosa\_NIES-843  
D082\_25630\_Synechocystis\_sp.\_PCC\_6714\_PCC\_6714  
SYNGTS\_2599\_Synechocystis\_sp.\_PCC\_6803\_GT-S  
AOY38\_13490\_Synechocystis\_sp.\_PCC\_6803\_PCC\_6803\_substr.\_GT-G  
SYNGTL\_2598\_Synechocystis\_sp.\_PCC\_6803\_substr.\_GT-I  
SYNPCCN\_2597\_Synechocystis\_sp.\_PCC\_6803\_substr.\_PCC-N  
SYNPCCP\_2597\_Synechocystis\_sp.\_PCC\_6803\_substr.\_PCC-P  
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KME25\_34615\_Symplocastrum\_torsivum\_CPER-KK1  
Mic7113\_2668\_Microcoleus\_sp.\_PCC\_7113\_PCC\_7113  
KME25\_23140\_Symplocastrum\_torsivum\_CPER-KK1  
KME25\_21610\_Symplocastrum\_torsivum\_CPER-KK1  
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KME29\_05900\_Calothrix\_sp.\_F12-JR7  
KME64\_16920\_Scytonematopsis\_contorta\_HA4267-MV1  
KME26\_29220\_Oscillatoria\_princeps\_RMCB-10  
KME04\_20310\_Pleurocapsa\_minor\_GSE-CHR-MK-17-07R  
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KME55\_18625\_Nostoc\_indistinquendum\_CM1-VF10  
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KME64\_07985\_Scytonematopsis\_contorta\_HA4267-MV1  
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Synpcc7942\_0970\_Synechococcus\_elongatus\_=\_FACHB-805\_PCC\_7942  
Syc0573\_c\_Synechococcus\_elongatus\_PCC\_6301  
M744\_11855\_Synechococcus\_sp.\_UTEX\_2973\_UTEX\_2973  
Cyan10605\_1446\_Cyanobacterium\_aponinum\_PCC\_10605  
Lepto7376\_3346\_Leptolynbya\_sp.\_PCC\_7376  
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KME46\_01920\_Brasilonema\_angustatum\_HA4187-MV1  
KME30\_31625\_Iphinoe\_sp.\_HA4291-MV1  
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Ava\_2342\_Trichormus\_variabilis\_ATCC\_29413  
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Nos7107\_0939\_Nostoc\_sp.\_PCC\_7107\_PCC\_7107  
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KME42\_12905\_Tildenella\_nuda\_ZEHNDER\_1965\_U140  
Tery\_4343\_Trichodesmium\_erythraeum\_IMS101  
Dacsa\_0742\_Dactylococcopsis\_salina\_PCC\_8305  
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Sta7437\_2457\_Stanteria\_cyanosphaera\_PCC\_7437  
Pie7327\_0511\_Pleurocapsa\_sp.\_PCC\_7327  
cce\_2220\_Crocospaera\_subtropica\_ATCC\_51142  
Ct9333\_3374\_Rippkaea\_orientalis\_PCC\_8802  
Cyan8802\_2737\_Rippkaea\_orientalis\_PCC\_8802  
PCC7424\_3330\_Gloeotheca\_citriformis\_PCC\_7424  
Cyan7822\_5305\_Gloeotheca\_verrucosa\_PCC\_7822  
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SYNPCCN\_0264\_Synechocystis\_sp.\_PCC\_6803\_substr.\_PCC-N  
SYNPCCP\_0264\_Synechocystis\_sp.\_PCC\_6803\_substr.\_PCC-P  
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Pro\_1720\_Prochlorococcus\_marinus\_subsp.\_marinus\_str.\_CCMP1375\_CCMP1375\_SS120  
EW15\_2084\_Prochlorococcus\_sp.\_MIT\_0801\_MIT\_0801  
NATL1\_20111\_Prochlorococcus\_marinus\_str.\_NATL1A  
PMN2A\_1137\_Prochlorococcus\_marinus\_str.\_NATL2A  
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Pie7327\_26760\_Prochlorococcus\_carrinoi\_HA7290-LM1  
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Ava\_0036\_Trichormus\_variabilis\_ATCC\_29413  
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SYNPCCN\_1825\_Synechocystis\_sp.\_PCC\_6803\_substr.\_PCC-N  
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CYB\_1060\_Synechococcus\_sp.\_JA-2-3Ba2-13\_JA-2-3Ba2-13  
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PMN2A\_1484\_Prochlorococcus\_marinus\_str.\_NATL2A  
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Cyan7822\_0323\_Gloeotheca\_verrucosa\_PCC\_7822  
Pie7327\_2396\_Crocospaera\_subtropica\_ATCC\_51142  
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Cyan8802\_2512\_Rippkaea\_orientalis\_PCC\_8802  
Dacsa\_0073\_Dactylococcopsis\_salina\_PCC\_8305  
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KME40\_32190\_Komarekiella\_atlantica\_HA4396-MV6  
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KME43\_14675\_Myxocorys\_chilensis\_ATA2-1-KO14  
KME19\_14115\_Microcoleus\_vaginatus\_WJT46-NPBG5  
KIL\_0926\_Gloeobacter\_kilaueensis\_JS1  
Oscil6304\_3519\_Oscillatoria\_acuminata\_PCC\_6304  
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KME52\_09655\_Desmonostoc\_geniculatum\_HA4340-LM1  
Npun\_R2646\_Nostoc\_punctiforme\_PCC\_73102\_ATCC\_29133\_PCC\_73102  
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KME33\_26885\_Aetokthonos\_hydrillicola\_B3-Florida  
KME25\_09715\_Symplocastrum\_torsivum\_CPER-KK1  
KME57\_03570\_Scytonema\_hyalinum\_WJT4-NPBG1  
KME30\_25745\_Iphinoe\_sp.\_HA4291-MV1  
KME46\_25245\_Brasilonema\_angustatum\_HA4187-MV1  
KME49\_25835\_Brasilonema\_octagenarum\_HA4186-MV1  
KME29\_02355\_Calothrix\_sp.\_F12-JR7  
Osc7112\_2358\_Oscillatoria\_nigro-iridis\_PCC\_7112  
KME16\_21235\_Oscillatoria\_princeps\_RMCB-10  
KME09\_21900\_Pleurocapsa\_minor\_HA4230-MV1  
Sta7437\_0508\_Stanteria\_cyanosphaera\_PCC\_7437  
Oscil6304\_3244\_Oscillatoria\_acuminata\_PCC\_6304  
Ct9333\_2643\_Crinalium\_epipsammum\_PCC\_9333  
KME22\_12520\_Hassallia\_sp.\_WJT32-NPBG1  
KME38\_23455\_Spirirestis\_raphealensis\_WJT71-NPBG6  
ANA\_C12915\_Anabaena\_sp.\_90\_90  
Anacy\_5710\_Anabaena\_cylindrica\_PCC\_7122  
AA650\_07920\_Anabaena\_sp.\_WA102\_WA102  
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KME35\_12315\_Aphanocapsa\_sp.\_GSE-SYN-MK-11-07L  
KME15\_25630\_Droetiella\_hepatica\_UHER\_2000\_2452  
A9601\_03711\_Prochlorococcus\_marinus\_str.\_AS9601  
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EW14\_0390\_Prochlorococcus\_sp.\_MIT\_0604\_MIT\_0604  
P9215\_03791\_Prochlorococcus\_marinus\_str.\_MIT\_9215  
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EW15\_1212\_Prochlorococcus\_sp.\_MIT\_0801\_MIT\_0801  
NATL1\_14681\_Prochlorococcus\_marinus\_str.\_NATL1A  
PMN2A\_0636\_Prochlorococcus\_marinus\_str.\_NATL2A  
AM1\_1491\_Acaryochloris\_marina\_MBIC11017  
QYB\_1298\_Synechococcus\_sp.\_JA-2-3Ba2-13\_JA-2-3Ba2-13  
CYA\_1857\_Synechococcus\_sp.\_JA-3-3Ab\_JA-3-3Ab  
Cyan7425\_2330\_Cyanotheca\_sp.\_PCC\_7425\_PCC\_7425  
syc0304\_c\_Synechococcus\_elongatus\_PCC\_6301  
Synpcc7942\_1246\_Synechococcus\_elongatus\_=\_FACHB-805\_PCC\_7942  
M744\_10405\_Synechococcus\_sp.\_UTEX\_2973\_UTEX\_2973  
D082\_19610\_Synechocystis\_sp.\_PCC\_6714\_PCC\_6714  
SYNGTS\_2835\_Synechocystis\_sp.\_PCC\_6803\_GT-S  
AOY38\_14670\_Synechocystis\_sp.\_PCC\_6803\_PCC\_6803\_substr.\_GT-G  
SYNGTL\_2834\_Synechocystis\_sp.\_PCC\_6803\_substr.\_GT-I  
SYNPCCN\_2833\_Synechocystis\_sp.\_PCC\_6803\_substr.\_PCC-N  
SYNPCCP\_2833\_Synechocystis\_sp.\_PCC\_6803\_substr.\_PCC-P  
Pie7367\_3320\_Pseudanabaena\_sp.\_PCC\_7367\_PCC\_7367  
Syn7502\_00378\_Synechococcus\_sp.\_PCC\_7502\_PCC\_7502  
Oscil6304\_3606\_Oscillatoria\_acuminata\_PCC\_6304  
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Ct9333\_5005\_Calothrix\_sp.\_PCC\_6303  
Riv7116\_3610\_Rivularia\_sp.\_PCC\_7116\_PCC\_7116  
IU00\_18455\_Calothrix\_sp.\_336\_3\_336\_3  
KME28\_05490\_Pelatocladus\_maninholoensis\_HA4357-MV3  
KME22\_05230\_Hassallia\_sp.\_WJT32-NPBG1  
KME38\_28160\_Spirirestis\_raphealensis\_WJT71-NPBG6  
KME54\_15555\_Tolypothrix\_brevis\_GSE-NOS-MK-07-07A  
KME31\_26195\_Tolypothrix\_carrinoi\_HA7290-LM1  
KME21\_03770\_Desmonostoc\_vinosum\_HA7617-LM4  
KME40\_16020\_Komarekiella\_atlantica\_HA4396-MV6  
KME52\_06180\_Desmonostoc\_geniculatum\_HA4340-LM1  
Npun\_R4225\_Nostoc\_punctiforme\_PCC\_73102\_ATCC\_29133\_PCC\_73102  
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KME55\_10255\_Nostoc\_indistinquendum\_CM1-VF10  
KME59\_04255\_Trichormus\_sp.\_ATA11-4-KO1  
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Nos7524\_5176\_Nostoc\_sp.\_PCC\_7524\_PCC\_7524  
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Pie7507\_15915\_Calothrix\_sp.\_PCC\_7507\_PCC\_7507  
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KME57\_14895\_Scytonema\_hyalinum\_WJT4-NPBG1  
KME46\_31170\_Brasilonema\_angustatum\_HA4187-MV1  
KME49\_01590\_Brasilonema\_octagenarum\_HA4186-MV1  
KME64\_44900\_Scytonematopsis\_contorta\_HA4267-MV1  
KME60\_01450\_Cyanomargarita\_calcareae\_GSE-NOS-MK-12-04C  
Ct9333\_4690\_Crinalium\_epipsammum\_PCC\_9333  
KME08\_05655\_Aphanocapsa\_sp.\_CMT-3BRIN-NPC111  
KME19\_23485\_Microcoleus\_vaginatus\_WJT46-NPBG5  
Osc7112\_5205\_Oscillatoria\_nigro-iridis\_PCC\_7112  
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KME7113\_5497\_Microcoleus\_sp.\_PCC\_7113\_PCC\_7113  
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KME17\_16420\_Cyanosarcina\_radialis\_HA8281-LM2  
KME01\_08340\_Chroococcus\_sp.\_CMT-3BRIN-NPC107  
KME05\_19070\_Gloeocapsa\_sp.\_UFS-A4-WI-NPMV-4B04  
Chro\_4528\_Chroococciopsis\_thermalis\_PCC\_7203  
Lepto7376\_0524\_Leptolynbya\_sp.\_PCC\_7376  
SYNPCC7002\_A1892\_Synechococcus\_sp.\_PCC\_7002\_PCC\_7002\_ATCC\_27264  
Cyan10605\_1127\_Cyanobacterium\_aponinum\_PCC\_10605  
Tery\_2192\_Cyanobacterium\_endosymbiont\_of\_Epithemia\_turgida\_isolate\_ETSB\_Lake\_Yunoko\_ETSB\_Lake\_Yunoko