CYA_2326_Sy KME47_13450 KME14_1165 Cyan10605_2 PCC7424_10	ynechococcus_spJA-2- ynechococcus_spJA-3- D_Nodosilinea_spWJT8 5_Tildeniella_torsiva_UI 2734_Cyanobacterium_ 29_Gloeothece_citriform	3Ab_JA-3-3Ab 3-NPBG4 HER_1998_13D aponinum_PCC_10605 nis_PCC_7424
0.74 0.94 0.94 0.94 0.92 ETSB_1753_0 PCC8801_288	ocosphaera_subtropica cyanobacterium_endosy 83_Rippkaea_orientalis 213_Rippkaea_orientalis	obacterium_thalassa_isolate_ALOHA_ALOHA _ATCC_51142 rmbiont_of_Epithemia_turgida_isolate_EtSB_Lake_Yunoko_ETSB_Lake_Yunoko _PCC_8801 s_PCC_8802
0.97 Cyagr_0464_ PMN2A_0281 EW15_0969_ 0.95 NATL1_0951 P40_0766_Pro	Cyanobium_gracile_PC _Prochlorococcus_mari Prochlorococcus_spM 1_Prochlorococcus_mar ochlorococcus_marinus_	nus_strNATL2A IT_0801_MIT_0801 inus_strNATL1A _subspmarinus_strCCMP1375_CCMP1375SS120
P.9515_10131 PMM0930_Pr EW14_0960_ 0.28 P.9301_09281 A9601_09301	I_Prochlorococcus_mar	inus_strMIT_9515 _subsppastoris_strCCMP1986_MED4 IT_0604_MIT_0604 inus_strMIT_9301 rinus_strAS9601
PMT9312_08 PMT_0618_P Sync_1590_S Syncc9902_1 KR100_09720	69_Prochlorococcus_marinus rochlorococcus_marinus ynechococcus_spCC9 280_Synechococcus_sp 0_Synechococcus_spk	arinus_strMIT_9312 s_strMIT_9313_MIT9313 9311_CC9311 oCC9902_CC9902 (ORDI-100_KORDI-100
\$\text{\$\frac{1}{5}\$ ncc9605_1 KR52_10685_ KR49_03000_ \$\text{\$\frac{5}{5}\$}\$ NWH8103_	190_Synechococcus_sp _Synechococcus_spK(_Synechococcus_spK(DRDI-52_KORDI-52 DRDI-49_KORDI-49 _spWH_8103_WH_8103
SYNGTS_087 A@Y38_04479 SYNGTI_0877 SYNPCCN_08	1_Synechocystis_spP05_Synechocystis_spP015_Synechocystis_spP015_Synechocystis_spP01570_Synechocystis_sp	CC_6803_PCC_6803_substrGT-G
ზმ82_31050_ MAE_05620_ Ple7327_0090 KME09_1210	S70_3yffecffocystis_spFC Synechocystis_aeruginosa Microcystis_aeruginosa D_Pleurocapsa_spPCC 0_Pleurocapsa_minor_b 7_Stanieria_cyanospha	C_6714_PCC_6714 _NIES-843 C_7327 HA4230-MV1
Oscil6304_20 ©217407_255 0.14 KME26_2159	Dactylococcopsis_saling 56_Halothece_spPCC_ 119_Oscillatoria_acumin 5_Geitlerinema_spPC 5_Oscillatoria_princeps_ 5_Microcoleus_vaginatu	_7418_PCC_7418 lata_PCC_6304 C_7407_PCC_7407 _RMCB-10
Chies Constitution of the	Chroococcidiopsis_therm 5_Aphanothece_spCM 0_Cyanosarcina_radiali 5_Crinalium_epipsamm 03_Oscillatoria_nigro-vir 0_Chroococcus_spCM	IT-3BRIN-NPC111 s_HA8281-LM2 um_PCC_9333 ridis_PCC_7112
KME33_0374 Glo7428_2329 KME30_0934 KME57_2279 KME46_0134	0_Aetokthonos_hydrillid 9_Gloeocapsa_spPCC 5_Iphinoe_spHA4291- 0_Scytonema_hyalinum 0_Brasilonema_angust	cola_B3-Florida _7428_PCC_7428 -MV1 _WJT4-NPBG1 atum_HA4187-MV1
Ava_1491_Tr KME38_09866 KME54_0045 KME22_08548 0.77 KME231_0831	5_Brasilonema_octage ichormus_variabilis_AT 0_Spirirestis_raphaelens 5_Tolypothrix_brevis_G 5_Hassallia_spWJT32- 5_Tolypothrix_carrinoi_	CC_29413 sis_WJT71-NPBG6 SE-NOS-MK-07-07A NPBG1 HA7290-LM1
Cal7507_0918 KME32_17856 KME40_0929	5_Goleter_apudmare_F 8_Calothrix_spPCC_7 0_Mojavia_pulchra_JT2- 0_Komarekiella_atlantions 5_Desmonostoc_vinosu 0_Desmonostoc_genico	507_PCC_7507 ·VF2 ca_HA4396-MV6 um_HA7617-LM4
KME55_0231 Npun_F3849_ KME28_2121 6.89 KME64_2908	•	dum_CM1-VF10 CC_73102_ATCC_29133PCC_73102 holoensis_HA4357-MV3 ntorta_HA4267-MV1
KME59_0168 KME60_3037 IJ00_21595_0 C73 I6303_073 KME29_22290	0_Trichormus_spATA 5_Cyanomargarita_calca Calothrix_sp336_3_336 4_Calothrix_spPCC_6 0_Calothrix_spFI2-JRJ	11-4-KO1 area_GSE-NOS-MK-12-04C 6_3 303 7
Nos7524_141 Nos7107_152 Anacy_1419_ 8:82 Aazo_4540_N	5_Gloeocapsa_spUFS 1_Nostoc_spPCC_752 0_Nostoc_spPCC_710 Anabaena_cylindrica_P lostoc_azollae_0708 _Anabaena_sp90_90	24_PCC_7524 07_PCC_7107
KME25_1772 KME06_1564 Mic7113_4520 KME20_1492	D_Anabaena_spWA10 5_Symplocastrum_torsiv 0_Kastovskya_adunca_ D_Microcoleus_spPCC 5_Kaiparowitsia_implica 0_Pegethrix_bostrychoice	vum_CPER-KK1 ATA6-11-RM4 :_7113_PCC_7113 ta_GSE-PSE-MK54-09C
KME15_0689 KME13_2206 KME43_2308 KME43_0749	5_Timaviella_obliquediv 5_Drouetiella_hepatica_ 5_Myxacorys_californica 0_Myxacorys_chilensis_ 0_Oscillatoria_tanganyi	isa_GSE-PSE-MK23-08B _UHER_2000_2452 a_WJT36-NPBG1 _ATA2-1-KO14 kae_FI6-MK23
KME16_1068 KME12_1536 KME27_2061 KME45_2545 0.77 KME42_0050	5_Plectolyngbya_spW. 0_Scytolyngbya_spHA 0_Trichocoleus_deserto 0_Lyngbya_spHA4199 0_Stenomitos_rutilans_ 5_Tildeniella_nuda_ZEH	A4215-MV1 orum_ATA4-8-CV12 9-MV5 HA7619-LM2 HNDER_1965_U140
ზწაი7425_51 წმ₩E35_11670 Tery_5078_T Syn6312_012	caryochloris_marina_M 26_Cyanothece_spPC 0_Aphanocapsa_spGS richodesmium_erythrae 4_Synechococcus_spl 0143_Synechococcus_e	CC_7425_PCC_7425 EE-SYN-MK-11-07L eum_IMS101
M744_02350_ syc1362_d_S Pse7367_123 Syn7502_002 GKIL_1808_G	_Synechococcus_spUTynechococcus_elongatu ynechococcus_elongatu 2_Pseudanabaena_sp 71_Synechococcus_sp Bloeobacter_kilaueensis_	TEX_2973_UTEX_2973 us_PCC_6301 PCC_7367_PCC_7367 PCC_7502_PCC_7502 JS1
0.9 KME04_1246 KME04_1246 MAE_11040_I Pro_1281_Pro 089601_14551	_Prochlorococcus_mari	_GSE-CHR-MK-17-07R GSE-CHR-MK-17-07R _NIES-843 _subspmarinus_strCCMP1375_CCMP1375SS120 inus_strAS9601
©MM1236_Pro 0.81 KR100_01385 KME27_086 KME42_184 CME45_289 KME20_238	ochlorococcus_marinus_ 5_Synechococcus_spK 75_Lyngbya_spHA419 70_Tildeniella_nuda_ZE 50_Stenomitos_rutilans 40_Kaiparowitsia_implic	_subsppastoris_strCCMP1986_MED4 CORDI-100_KORDI-100 99-MV5 EHNDER_1965_U140 s_HA7619-LM2 cata_GSE-PSE-MK54-09C
PCC7424_4 Cyan7822_1 KME33_142 0.55 KME09_257	35_Pegethrix_bostrycho 061_Gloeothece_citrifor 1962_Gloeothece_verrue 75_Aetokthonos_hydrill 30_Pleurocapsa_minor_ 85_Brasilonema_octage	mis_PCC_7424 cosa_PCC_7822 licola_B3-Florida _HA4230-MV1
GKIL_0015_0 GKIL_0015_0 CYB_1119_S CYA_2346_S 0.96 Pse7367_024	O_Plectolyngbya_spW Bloeobacter_kilaueensis_ ynechococcus_spJA-2 ynechococcus_spJA-3- 2_Pseudanabaena_sp	JT66-NPBG17 _JS1 -3Ba2-13_JA-2-3Ba2-13 -3Ab_JA-3-3Ab _PCC_7367_PCC_7367
KME02_0537 KR49_09635 SynWH8103_ Pro_1770_Pro_1798	0_Aphanothece_saxicol _Synechococcus_spK0 _00158_Synechococcus ochlorococcus_marinus_ 1_Prochlorococcus_mar	_spWH_8103_WH_8103 _subspmarinus_strCCMP1375_CCMP1375SS120 ·inus_strMIT_9515
P9215_1884 P9301_1803 KME08_1246 0.96 Mic7113_036 0.81 ME33_2515	1_Prochlorococcus_main 1_Prochlorococcus_main 1_Prochlorococcus_main 0_Aphanothece_spCM 0_Microcoleus_spPCC 55_Aetokthonos_hydrillic	rinus_strMIT_9215 rinus_strMIT_9301 MT-3BRIN-NPC111 C_7113_PCC_7113 cola_B3-Florida
\(\frac{\cappa 49}{\cappa \cappa 1649} \) \(\frac{\cappa 49}{\cappa ME12_1502} \) \(\frac{\cappa ME18_0645}{\cappa ME10_1009} \)	5_Cyanosarcina_radiali 5_Pelatocladus_manini 5_Trichocoleus_deserto 5_Oscillatoria_tangany 5_Plectolyngbya_spW 0_Myxacorys_californica	holoensis_HA4357-MV3 orum_ATA4-8-CV12 ikae_FI6-MK23 JT66-NPBG17
KME26_0487 Osc7112_624 KME06_0593 KME01_0856	O_Myxacorys_chilensis_ O_Oscillatoria_princeps 46_Oscillatoria_nigro-vii O_Kastovskya_adunca_ O_Chroococcus_spCM	_RMCB-10 ridis_PCC_7112 _ATA6-11-RM4 IT-3BRIN-NPC107
Oscil6304_35 P.GC7424_40 Cyan7822_10 ETSB_0182_ 0.88	3_Gloeocapsa_spPCC 599_Oscillatoria_acumir 65_Gloeothece_citriform 076_Gloeothece_verruc cyanobacterium_endosy richodesmium_erythrae	nata_PCC_6304 nis_PCC_7424 osa_PCC_7822 /mbiont_of_Epithemia_turgida_isolate_EtSB_Lake_Yunoko_ETSB_Lake_Yunoko
KME14_0650 KME14_0052 KME16_0600 KME27_3075	5_Kaiparowitsia_implica 0_Nodosilinea_spWJT 0_Tildeniella_torsiva_U 5_Scytolyngbya_spH 5_Lyngbya_spHA419 0_Tildeniella_nuda_ZEF	HER_1998_13D A4215-MV1 9-MV5
KME45_0700 KME07_0527 KME15_1976 Syn6312_300 0.64 KME11_0280	05_Stenomitos_rutilans_ 75_Pegethrix_bostrychoi 60_Drouetiella_hepatica 07_Synechococcus_sp	_HA7619-LM2 des_GSE-TBD4-15B _UHER_2000_2452 PCC_6312_PCC_6312 visa_GSE-PSE-MK23-08B
KME19_1514 KME40_0114 KME40_0091 KME31_0660 KME22_2450	0_Microcoleus_vaginatu 10_Komarekiella_atlanti	us_WJT46-NPBG5 ca_HA4396-MV6 :area_GSE-NOS-MK-12-04C _HA7290-LM1 -NPBG1
Nos7524_503 Aya_3645_Tr KME52_1275 Ngun_R4557 KME50_2497	30_Nostoc_spPCC_752 richormus_variabilis_AT 55_Desmonostoc_genic	24_PCC_7524 CC_29413 ulatum_HA4340-LM1 CC_73102_ATCC_29133PCC_73102 CM1-VF14
Cal7507_511 0.91 KME23_2525 0.97 PCC8801_08 Cyan8802_08 cce_4627_Cr	2_Calothrix_spPCC_7 55_Goleter_apudmare_b 43_Rippkaea_orientalis 370_Rippkaea_orientalis ocosphaera_subtropica	507_PCC_7507 HA4340-LM2 _PCC_8801 s_PCC_8802
KME59_1386 IJ00_20410_0 Cal6303_500 KME64_4444 KME29_1147	Co_Trichormus_spATA Calothrix_sp336_3_33 1_Calothrix_spPCC_6 L5_Scytonematopsis_co 0_Calothrix_spFI2-JRJ L2-Pleurocapsa_spPCC	11-4-KO1 6_3 3303 ontorta_HA4267-MV1 7
Cyan7425_45 MAE_14970_ ©%an10605_0 Lepto7376_4	439_Leptolyngbya_sp	CC_7425_PCC_7425 _NIES-843 aponinum_PCC_10605
AM1_5521_A ©ÆI7407_297 S∲npcc7942_ syc0983_c_S M744_00260_	.caryochloris_marina_M '6_Geitlerinema_spPC	BIC11017 C_7407_PCC_7407 elongatus_=_FACHB-805_PCC_7942 us_PCC_6301 TEX_2973_UTEX_2973
KME42_0838 KME16_0240 KME33_1785 Sta7437_290 Ava_1655_Tr	35_Tildeniella_nuda_ZE 0_Scytolyngbya_spH 0_Aetokthonos_hydrillio 0_Stanieria_cyanospha ichormus_variabilis_AT	HNDER_1965_U140 A4215-MV1 cola_B3-Florida era_PCC_7437 CC_29413
C417507_245 K90E23_2610 0.47 Nos7524_102 KME59_1331	5_Oscillatoria_princeps 5_Calothrix_spPCC_7 0_Goleter_apudmare_H 1_Nostoc_spPCC_752 0_Trichormus_spATA Anabaena_cylindrica_P	507_PCC_7507 HA4340-LM2 24_PCC_7524 11-4-KO1
KME40_1258 KME32_3126 0.92 KME21_0373 KME42_0838	Nostoc_azollae_0708 0_Komarekiella_atlantio 0_Mojavia_pulchra_JT2- 0_Desmonostoc_vinosu 0_Tildeniella_nuda_ZEH 80_Cyanosarcina_radial	VF2 um_HA7617-LM4 HNDER_1965_U140
GKIL_2504_GI KME03_04160 GvioPCC7421 CYB_1983_Sy CYA_1701_Syi	oeobacter_kilaueensis_d D_Aphanocapsa_lilacina _194_Gloeobacter_viola nechococcus_spJA-2-3 nechococcus_spJA-3-3 Z_Pseudanabaena_spF	JS1 _HA4352-LM1 aceus_PCC_7421 3Ba2-13_JA-2-3Ba2-13 3Ab_JA-3-3Ab
Syn7502_0222 AM1_5186_Ac Syn6312_1214 KME35_24485 0.8 Cyan7425_413	28_Synechococcus_spcaryochloris_marina_ME 4_Synechococcus_spP 5_Aphanocapsa_spGSI 80_Cyanothece_spPC	PCC_7502_PCC_7502 BIC11017 PCC_6312_PCC_6312 E-SYN-MK-11-07L C_7425_PCC_7425
M744_00820_ 0.99 syc1087_c_Sy 1KME02_02170 1Cyagr_0625_0	0430_Synechococcus_e Synechococcus_spUT nechococcus_elongatus 0_Aphanothece_saxicola Cyanobium_gracile_PC0 nechococcus_spCC9	s_PCC_6301 a_GSE-SYN-MK-01-06B C_6307
PMT_0685_Pr Pro_0928_Pro PMM0907_Pro P9515_09901 P9215_09851 ¹PMT9312_089	rochlorococcus_marinus ochlorococcus_marinus_ ochlorococcus_marinus_ _Prochlorococcus_mari _Prochlorococcus_mari 93_Prochlorococcus_ma	_strMIT_9313_MIT9313 subspmarinus_strCCMP1375_CCMP1375SS120 _subsppastoris_strCCMP1986_MED4 nus_strMIT_9515 nus_strMIT_9215 arinus_strMIT_9312
EW14_0985_6 A9601_09541 P9301_09521 EW15_0988_6 NATL1_09721	Prochlorococcus_spMI _Prochlorococcus_mari _Prochlorococcus_mari Prochlorococcus_spMI _Prochlorococcus_marir_ _Prochlorococcus_marir	T_0604_MIT_0604 inus_strAS9601 nus_strMIT_9301 T_0801_MIT_0801 nus_strNATL1A nus_strNATL2A
KR100_09040 KR49_01845_ SynWH8103_0 Syncc9902_10 KR52_09285_ Syncc9605_14	_Synechococcus_spK Synechococcus_spKO 01432_Synechococcus_ 069_Synechococcus_sp Synechococcus_spKO 430_Synechococcus_sp	ORDI-100_KORDI-100 PRDI-49_KORDI-49 _spWH_8103_WH_8103 CC9902_CC9902 PRDI-52_KORDI-52 CC9605_CC9605
KME20_02645 KME18_02800 KME10_29040 0.99 KME13_23100	246_Synechococcus_sp 5_Kaiparowitsia_implicat 0_Oscillatoria_tanganyik 0_Plectolyngbya_spWJ 0_Myxacorys_californica 5_Myxacorys_chilensis_	a_GSE-PSE-MK54-09C kae_FI6-MK23 T66-NPBG17 _WJT36-NPBG1
KME16_24715 KME42_02715 KME27_03070 0.93 KME45_21440 KME17_20240	5_Scytolyngbya_spHA 5_Tildeniella_nuda_ZEH 0_Lyngbya_spHA4199 0_Stenomitos_rutilans_k 0_Cyanosarcina_radialis	4215-MV1 NDER_1965_U140 -MV5 HA7619-LM2
KME47_25430 KME14_14780 %ME07_05290 KME15_01670 KME11_12610	_Nodosilinea_spWJT8)_Tildeniella_torsiva_UF)_Pegethrix_bostrychoid)_Drouetiella_hepatica_	-NPBG4 IER_1998_13D Ies_GSE-TBD4-15B UHER_2000_2452 sa_GSE-PSE-MK23-08B
CSE17407_1052 KME19_07860 0.87 KME26_11850 CSE7112_3500 TETry_3042_Tr	2_Geitlerinema_spPCC 2_Microcoleus_vaginatus 2_Oscillatoria_princeps_ 0_Oscillatoria_nigro-viri richodesmium_erythrae	C_7407_PCC_7407 S_WJT46-NPBG5 RMCB-10 dis_PCC_7112 um_IMS101
D082_23790_3 SYNGTS_0514 SYNPCC6803_ AQY38_02640 SYNGTI_0514	_Synechocystis_spPC	C_6714_PCC_6714 CC_6803_GT-S _PCC_6803_PCC_6803 C_6803_PCC_6803_substrGT-G C_6803_substrGT-I
SYNPCCP_05 ©§an10605_0 Dåcsa_3019_I PCC7418_108 UCYN_03050_	14_Synechocystis_spP 071_Cyanobacterium_a Dactylococcopsis_salina 7_Halothece_spPCC_ _Candidatus_Atelocyand	n_PCC_8305 7418_PCC_7418 obacterium_thalassa_isolate_ALOHA_ALOHA
ETSB_0096_c PCC8801_047 Cyan8802_048 PCC7424_456 0.99 Cyan7822_098	'1_Rippkaea_orientalis_ 84_Rippkaea_orientalis_ 89_Gloeothece_citriform 88_Gloeothece_verruco	mbiont_of_Epithemia_turgida_isolate_EtSB_Lake_Yunoko_ETSB_Lake_Yunoko PCC_8801 _PCC_8802 is_PCC_7424 sa_PCC_7822
0.43 MAE_62650_N Sta7437_3224 KME09_24235 Lepto7376_45 SYNPCC7002	·	NIES-843 era_PCC_7437 IA4230-MV1 PCC_7376_ _spPCC_7002_PCC_7002ATCC_27264
KME25_20955 0.95 Mic7113_6236 Chro_4165_CI ©ዝን7428_0884 KME01_03165	5_Kastovskya_adunca_A 5_Symplocastrum_torsiv 5_Microcoleus_spPCC_ hroococcidiopsis_therma 5_Gloeocapsa_spPCC_ 5_Chroococcus_spCMT	rum_CPER-KK1 _7113_PCC_7113 alis_PCC_7203 _7428_PCC_7428 T-3BRIN-NPC107
KME05_17665 KME28_10295 KME33_28465 Riv7116_6843 KME30_16290 KME57_22280	G_Gloeocapsa_spUFS- G_Pelatocladus_maninih G_Aetokthonos_hydrillic _Rivularia_spPCC_71 O_Iphinoe_spHA4291-l O_Scytonema_hyalinum_	A4-WI-NPMV-4B04 oloensis_HA4357-MV3 ola_B3-Florida 16_PCC_7116 MV1 _WJT4-NPBG1
KME49_09575 Anacy_0880_A ANA_C13408_ AA650_21840	D_Scytonema_hyalinum_ D_Brasilonema_angusta 5_Brasilonema_octagen Anabaena_cylindrica_P(_Anabaena_sp90_90 _Anabaena_spWA102 ostoc_azollae_0708	atum_HA4187-MV1 parum_HA4186-MV1 CC_7122
Nos7524_4522 AVa_4532_Tric 0.83 NPCC7120_59 KME32_05055 Msss7107_4819	2_Nostoc_spPCC_7524 chormus_variabilis_ATC	CC_29413 20_=_FACHB-418_PCC_7120 VF2 7_PCC_7107
C9217507_1863 KME21_09060 KME40_06915 KME52_06005	_Calothrix_spPCC_75 D_Desmonostoc_vinosu 5_Komarekiella_atlantic 5_Desmonostoc_genicu Nostoc_punctiforme_PC	07_PCC_7507 m_HA7617-LM4 a_HA4396-MV6 latum_HA4340-LM1 C_73102_ATCC_29133PCC_73102
KME55_01190 KME59_17760 KME54_23710 KME31_19870 KME22_13225)_Nostoc_desertorum_C)_Nostoc_indistinguend)_Trichormus_spATA1)_Tolypothrix_brevis_GS)_Tolypothrix_carrinoi_l _Hassallia_spWJT32-N)_Spirirestis_raphaelens	um_CM1-VF10 1-4-KO1 SE-NOS-MK-07-07A HA7290-LM1 NPBG1
KME60_30715 IJ00_12195_C KME64_29255 KME29_35900 Cal6303_1398	alothrix_sp336_3_336 5_Scytonematopsis_cor _Calothrix_spFI2-JRJ7 6_Calothrix_spPCC_63	area_GSE-NOS-MK-12-04C 5_3 ntorta_HA4267-MV1
KME08_13255 KME17_22225	_Hassallia_spWJT32-N _Aphanothece_spCM ⁻ 5_Cyanosarcina_radialis _Crinalium_epipsammu	T-3BRIN-NPC111 s_HA8281-LM2