```
Cyan7425_4822_Cyanothece_sp._PCC_7425_PCC_7
— Syn6312_0495_Synechococcus_sp._PCC_6312_P
— KME35_04220_Aphanocapsa_sp._GSE_SYN_MK_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    - KME35_04220_Aphanocapsa_sp._GSE-SYN-MK-1

- AM1_3670_Acaryochloris_marina_MBIC11017

- GKIL_2412_Gloeobacter_kilaueensis_JS1

- KME03_11940_Aphanocapsa_lilacina_HA4352-l

- KME07_10055_Pegethrix_bostrycho

- KME60_15210_Cyanomargarita_ca

- KME40_17090_Komarekiella_atlantica_HA43

- Nos7524_0570_Nostoc_sp._PCC_7524_PC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    KME40_1/USU_...
Nos7524_0570_Nostoc_sp._,
ANA_C13133_Anabaena_sp._90_90
AA650_13640_Anabaena_sp._WA102_WA102
KME43_11750_Myxacory
KME13_06610_Myxacory
KME10_1
KME18_0
                                                                 PCC7418_3681_Halothece_sp._PCC_7418_PCC_7418

- Dacsa_1460_Dactylococcopsis_salina_PCC_8305
                                                                           UCYN_01090_Candidatus_Atelocyanobacterium_thalassa_isolate_ALOHA_ALOHA
                                                       — UCYN_01090_Candidatus_Atelocyanobacterium_thalassa_isolate_A
— cce_3755_Crocosphaera_subtropica_ATCC_51142
Cyan8802_0309_Rippkaea_orientalis_PCC_8802
PCC8801_0309_Rippkaea_orientalis_PCC_8801
SYNPCCP_1271_Synechocystis_sp._PCC_6803_substr._PCC_P
SYNPCCN_1271_Synechocystis_sp._PCC_6803_substr._PCC_N
SYNGTI_1272_Synechocystis_sp._PCC_6803_substr._GT_I
SYNGTS_1272_Synechocystis_sp._PCC_6803_GT_S
D082_22600_Synechocystis_sp._PCC_6714_PCC_6714
— MAE_12920_Microcystis_aeruginosa_NIES_843
— Cvan10605_0873_Cvanobacterium_aponinum_PCC_10605
                                            KR52_04120_Synechococcus_sp._KORDI-52_KORDI-52
Syncc9605_2394_Synechococcus_sp._CC9605_CC9605
Syncc8109_2503_Synechococcus_sp._WH_8109_WH_8109
SynWH8103_02593_Synechococcus_sp._WH_8103_WH_8103
KR49_07560_Synechococcus_sp._KORDI-49_KORDI-49
KR100_14815_Synechococcus_sp._KORDI-100_KORDI-100
sync_2607_Synechococcus_sp._CC9311_CC9311
Syncc9902_0299_Synechococcus_sp._CC9902_CC9902
Cyagr_2891_Cyanobium_gracile_PCC_6307
KME02_13085_Aphanothece_saxicola_GSE-SYN-MK-01-06B
P9301_01621_Prochlorococcus_marinus_str._MIT_9301
A9601_01601_Prochlorococcus_marinus_str._AS9601
                                                                                                                                                              A9601_01601_Prochlorococcus_marinus_str._MI1_9301

A9601_01601_Prochlorococcus_marinus_str._AS9601

PMT9312_0145_Prochlorococcus_marinus_str._MIT_9312

EW14_0185_Prochlorococcus_sp._MIT_0604_MIT_0604

- P9215_01601_Prochlorococcus_marinus_str._MIT_9215

— P9515_01711_Prochlorococcus_marinus_str._MIT_9515

_ PMN2A_1509_Prochlorococcus_marinus_str._NATL2A
                                                                                                                                                                    NATL1_02151_Prochlorococcus_marinus_str._NATL1A EW15_0230_Prochlorococcus_sp._MIT_0801_MIT_0801
                                                              EW15_0230_Prochlorococcus_sp._MIT_0801_MIT_0801

Pro_0166_Prochlorococcus_marinus_subsp._marinus_str._CCMP1375_CCMP1375_SS120

GvioPCC7421_1744_Gloeobacter_violaceus_PCC_7421

KME03_12380_Aphanocapsa_lilacina_HA4352_LM1

GKIL_0569_Gloeobacter_kilaueensis_JS1

CYA_0317_Synechococcus_sp._JA-3-3Ab_JA-3-3Ab

CYB_1695_Synechococcus_sp._JA-2-3Ba2-13_JA-2-3Ba2-13

KME04_20315_Pleurocapsa_minor_GSE-CHR-MK-17-07R

Syn7502_02247_Synechococcus_sp._PCC_7502_PCC_7502

Pse7367_2694_Pseudanabaena_sp._PCC_7367_PCC_7367

Sta7437_3290_Stanieria_cyanosphaera_PCC_7437

KME09_22830_Pleurocapsa_minor_HA4230-MV1

Ple7327_0168_Pleurocapsa_sp._PCC_6312_PCC_6312

Telo_1559_Thermosynechococcus_elongatus_BP-1
                         Syn6312_1664_Synechococcus_sp._PCC_6312_PCC_6312

Telo_1559_Thermosynechococcus_elongatus_BP-1

Cyan7425_4189_Cyanothece_sp._PCC_7425_PCC_7425

KME35_11270_Aphanocapsa_sp._GSE-SYN-MK-11-07L

M744_06500_Synechococcus_sp._UTEX_2973_UTEX_2973

syc2112_c_Synechococcus_elongatus_PCC_6301

Synpcc7942_1984_Synechococcus_elongatus_=_FACHB-805_PCC_7942

KME15_15035_Drouetiella_hepatica_UHER_2000_2452

KME07_14735_Pegethrix_bostrychoides_GSE-TBD4-15B

KME11_09290_Timaviella_obliquedivisa_GSE-PSE-MK23-08B

KME20_14045_Kaiparowitsia_implicata_GSE-PSE-MK54-09C

KME14_06385_Tildeniella_torsiva_UHER_1998_13D

KME47_03610_Nodosilinea_sp._WJT8-NPBG4

AM1_4825_Acaryochloris_marina_MBIC11017

KME49_22155_Brasilonema_octagenarum_HA4186-MV1

KME46_11480_Brasilonema_angustatum_HA4187-MV1

KME30_08265_lphinoe_sp._HA4291-MV1

KME33_25200_Aetokthonos_hydrillicola_B3-Florida
                                                   KME33_25200_Aetokthonos_hydrillicola_B3-Florida
                                           KME31_11650_Tolypothrix_carrinoi_HA7290-LM1
- KME54_03825_Tolypothrix_brevis_GSE-NOS-MK-07-07A
                                              KME38_10910_Spirirestis_raphaelensis_WJT71-NPBG6
                                            KME22_05970_Hassallia_sp._WJT32-NPBG1
                               KME21_02680_Desmonostoc_vinosum_HA7617-LM4
Nos7107_4143_Nostoc_sp._PCC_7107_PCC_7107
KME59_03620_Trichormus_sp._ATA11-4-KO1
KME40_25485_Komarekiella_atlantica_HA4396-MV6
KME52_03815_Desmonostoc_gein_content_HA4340-LM1
                                          KME64_18950_Scytonematopsis_contorta_HA4267-MV1KME57_01100_Scytonema_hyalinum_WJT4-NPBG1

KME57_01100_Scytonema_hyalinum_WJ14-NPBG1
KME28_18765_Pelatocladus_maniniholoensis_HA4357-MV3
IJ00_15385_Calothrix_sp._336_3_336_3
Cal6303_5615_Calothrix_sp._PCC_6303
KME29_39905_Calothrix_sp._FI2-JRJ7
KME60_16910_Cyanomargarita_calcarea_GSE-NOS-MK-12-04C
Riv7116_4190_Rivularia_sp._PCC_7116_PCC_7116
AA650_04100_Anabaena_sp._WA102_WA102
ANA_C20305_Anabaena_sp._90_90
Anacy_3874_Anabaena_cylindrica_PCC_7122
Aazo_2874_Nostoc_azollae_0708
KME55_15385_Nostoc_indistinguendum_CM1-VF10

                     Aazo_2874_Nostoc_azollae_0708

KME55_15385_Nostoc_indistinguendum_CM1-VF10

KME50_09630_Nostoc_desertorum_CM1-VF14

Npun_R2771_Nostoc_punctiforme_PCC_73102_ATCC_29133__PCC_73102

Ava_4794_Trichormus_variabilis_ATCC_29413

NPCC7120_1830_Nostoc_sp._PCC_7120_=_FACHB-418_PCC_7120

Nos7524_4714_Nostoc_sp._PCC_7524_PCC_7524

Cal7507_3634_Calothrix_sp._PCC_7507_PCC_7507

KME23_15360_Goleter_apudmare_HA4340-LM2

KME32_16265_Mojavia_pulchra_JT2-VF2

Chro_0493_Chroococcidiopsis_thermalis_PCC_7203

Glo7428_1901_Gloeocapsa_sp._PCC_7428_PCC_7428

KME01_06190_Chroococcus_sp._CMT-3BRIN-NPC107

KME43_12360_Myxacorys_chilensis_ATA2-1-KO14
KME01_06190_Chroococcus_sp._CMT-3BRIN-NPC107

KME43_12360_Myxacorys_chilensis_ATA2-1-KO14

KME13_02120_Myxacorys_californica_WJT36-NPBG1

KME10_13625_Plectolyngbya_sp._WJT66-NPBG17

KME18_12145_Oscillatoria_tanganyikae_FI6-MK23

KME16_09400_Scytolyngbya_sp._HA4215-MV1

GEI7407_1138_Geitlerinema_sp._PCC_7407_PCC_7407

KME45_24145_Stenomitos_rutilans_HA7619-LM2

KME27_25865_Lyngbya_sp._HA4199-MV5

KME42_25605_Tildeniella_nuda_ZEHNDER_1965_U140

Osc7112_5866_Oscillatoria_nigro-viridis_PCC_7112

Tery_4010_Trichodesmium_erythraeum_IMS101

KME26_05045_Oscillatoria_princeps_RMCB-10

KME19_07705_Microcoleus_vaginatus_WJT46-NPBG5

Oscil6304_1227_Oscillatoria_acuminata_PCC_6304

Mic7113_2704_Microcoleus_sp._PCC_7113_PCC_7113

KME25_16680_Symplocastrum_torsivum_CPER-KK1

KME06_01250_Kastovskya_adunca_ATA6-11-RM4

KME12_19820_Trichocoleus_desertorum_ATA4-8-CV12

Cri9333_2889_Crinalium_epipsammum_PCC_9333

    Cri9333_2889_Crinalium_epipsammum_PCC_9333
    KME08_21250_Aphanothece_sp._CMT-3BRIN-NPC111
    KME17_15940_Cyanosarcina_radialis_HA8281-LM2
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¹ KME18_0 KME27_24645_I KME42 0565

KME45_13670_Ster