```
GKIL_3692_Gloeobacter_kilaueensis_JS1
                     KME03_02305_Aphanocapsa_lilacina_HA4352-LM1
GvioPCC7421_2252_Gloeobacter_violaceus_PCC_7421
0.99
        CYB_1233_Synechococcus_sp._JA-2-3Ba2-13_JA-2-3Ba2-13
CYA_0193_Synechococcus_sp._JA-3-3Ab_JA-3-3Ab_

    Syn7502_02775_Synechococcus_sp._PCC_7502_PCC_7502
    Pse7367_2612_Pseudanabaena_sp._PCC_7367_PCC_7367

      AM1_0563_Acaryochloris_marina_MBIC11017
     Syn6312_2601_Synechococcus_sp._PCC_6312_PCC_6312

Syn6312_2601_Synechococcus_sp._PCC_6312_PCC_6312

Syn6320_Aphanocapsa_sp._GSE-SYN-MK-11-07L

Cyan7425_3999_Cyanothece_sp._PCC_7425_PCC_7425

Synpcc7942_1513_Synechococcus_elongatus_=_FACHB-805_PCC_7942
                  syc2498_d_Synechococcus_elongatus_PCC_6301
M744_08570_Synechococcus_sp._UTEX_2973_UTEX_2973
Tery_0416_Trichodesmium_erythraeum_IMS101
   0.79
               Sta7437_1236_Stanieria_cyanosphaera_PCC_7437
Dacsa_2323_Dactylococcopsis_salina_PCC_8305
PCC7418_2585_Halothece_sp._PCC_7418_PCC_7418
      0.88
                 MAE_50310_Microcystis_aeruginosa_NIES-843
              PCC7424_0289_Gloeothece_citriformis_PCC_7424
Cyan7822_4633_Gloeothece_verrucosa_PCC_7822
                Ple7327_0247_Pleurocapsa_sp._PCC_7327
PCC8801_2698_Rippkaea_orientalis_PCC_8801
Cyan8802_3405_Rippkaea_orientalis_PCC_8802
                                   UCYN_00200_Candidatus_Atelocyanobacterium_thalassa_isolate_ALOHA_ALOHA
              cce_2124_Crocosphaera_subtropica_ATCC_51142
                 KME09_19770_Pleurocapsa_minor_HA4230-MV1
                      D082_05830_Synechocystis_sp._PCC_6714_PCC_6714
          0.81
                         SYNGTS_2218_Synechocystis_sp._PCC_6803_GT-S
                        SYNGTI_2217_Synechocystis_sp._PCC_6803_substr._GT-I
                        SYNPCCN_2216_Synechocystis_sp._PCC_6803_substr._PCC-N SYNPCCP_2216_Synechocystis_sp._PCC_6803_substr._PCC-P SynPCC6803_2215_Synechocystis_sp._PCC_6803_PCC_6803
        0.94
                      Cyan10605_0750_Cyanobacterium_aponinum_PCC_10605
                 Lepto7376_1782_Leptolyngbya_sp._PCC_7376_
SYNPCC7002_A0818_Synechococcus_sp._PCC_7002_PCC_7002__ATCC_27264
            KME47_15000_Nodosilinea_sp._WJT8-NPBG4
             KME14_15460_Tildeniella_torsiva_UHER_1998_13D
Mic7113_6047_Microcoleus_sp._PCC_7113_PCC_7113
        KME25_27640_Symplocastrum_torsivum_CPER-KK1
              KME06_02975_Kastovskya_adunca_ATA6-11-RM4
               KME05_06785_Gloeocapsa_sp._UFS-A4-WI-NPMV-4B04
           Chro_4712_Chroococcidiopsis_thermalis_PCC_7203
          Glo7428_1743_Gloeocapsa_sp._PCC_7428_PCC_7428
                 KME64_39820_Scytonematopsis_contorta_HA4267-MV1
             KME23_19170_Goleter_apudmare_HA4340-LM2
Cal7507_2913_Calothrix_sp._PCC_7507_PCC_7507
*KME32_03735_Mojavia_pulchra_JT2-VF2
                 ●1KME59_11660_Trichormus_sp._ATA11-4-KO1
             ***XME21_17190_Desmonostoc_vinosum_HA7617-LM4

***ME21_17190_Desmonostoc_vinosum_HA7617-LM4

***MS21_17190_Desmonostoc_vinosum_HA7617-LM4

***MS21_4215_Nostoc_sp._PCC_7524_PCC_7524

***MS21_4215_Nostoc_sp._PCC_7120_=_FACHB-418_PCC_7120

***AVa_1300_Trichormus_variabilis_ATCC_29413

**Npun_R5970_Nostoc_punctiforme_PCC_73102_ATCC_29133__PCC_73102
           Npun_R5970_Nostoc_punctiforme_PCC_73102_ATCC_29133__PCC_

Npun_R5970_Nostoc_desertorum_CM1-VF14

KME50_04605_Nostoc_indistinguendum_CM1-VF10

KME40_14800_Komarekiella_atlantica_HA4396-MV6

KME52_27235_Desmonostoc_geniculatum_HA4340-LM1

KME30_1950_Aetokthonos_hydrillicola_B3-Florida

KME57_26025_Scytonema_hyalinum_WJT4-NPBG1

KME30_19980_Iphinoe_sp._HA4291-MV1

KME49_11735_Brasilonema_angustatum_HA4187-MV1

KME49_11735_Brasilonema_octagenarum_HA4186-MV1

KME29_32600_Calothrix_sp._Fl2-JRJ7

Cal6303_0757_Calothrix_sp._PCC_6303

KME29_32600_Calothrix_sp._PCC_7116_PCC_7116

KME60_02050_Cyanomargarita_calcarea_GSE-NOS-MK-07-07A

KME54_09000_Tolypothrix_brevis_GSE-NOS-MK-07-07A

KME54_09000_Tolypothrix_carrinoi_HA7290-LM1

KME31_03160_Tolypothrix_carrinoi_HA7290-LM1

KME38_12730_Spirirestis_raphaelensis_WJT71-NPBG6

ME28_11110_Pelatocladus_maniniholoensis_HA4357-MV3

J0.93_KME38_12730_Spirirestis_raphaelensis_WJT71-NPBG6

ME28_11110_Pelatocladus_maniniholoensis_HA4357-MV3

J0.92_J00_17410_Calothrix_sp._336_3_336_3

Anacy_2502_Anabaena_cylindrica_PCC_7122

Aazo_0646_Nostoc_azollae_0708

J0.91 MA C10167_Anabaena_sp._90_90
            Aazo_0646_Nostoc_azollae_0708

ANA_C10167_Anabaena_sp._90_90
AA650_04665_Anabaena_sp._WA102_WA102

Nos7107_0194_Nostoc_sp._PCC_7107_PCC_7107

KME17_27040_Cyanosarcina_radialis_HA8281-LM2
Cri9333_2346_Crinalium_epipsammum_PCC_9333
     Cri9333_2346_Crinalium_epipsammum_PCC_9333

KME08_09640_Aphanothece_sp._CMT-3BRIN-NPC111

GEI7407_1251_Geitlerinema_sp._PCC_7407_PCC_7407

KME12_14015_Trichocoleus_desertorum_ATA4-8-CV12

KME26_15190_Oscillatoria_princeps_RMCB-10

ME19_07030_Microcoleus_vaginatus_WJT46-NPBG5

Osc7112_0041_Oscillatoria_pigro-viridis_PCC_7112
      Osc7112_0041_Oscillatoria_nigro-viridis_PCC_7112
Oscil6304_1146_Oscillatoria_acuminata_PCC_6304
          KME22_11595_Hassallia_sp._WJT32-NPBG1

KME28_22645_Pelatocladus_maniniholoensis_HA4357-MV3

KME20_24880_Kaiparowitsia_implicata_GSE-PSE-MK54-09C
      KME16_18320_Scytolyngbya_sp._HA4215-MV1
                KME18_19330_Óscillatoria_tanganyikae_FI6-MK23
KME10_16385_Plectolyngbya_sp._WJT66-NPBG17
         KME13_14625_Myxacorys_californica_WJT36-NPBG1
      0.79 KME43_13280_Myxacorys_chilensis_ATA2-1-KO14
KME15_11020_Drouetiella_hepatica_UHER_2000_2452
      KME42_01400_Tildeniella_nuda_ZEHNDER_1965_U140
           KME27_02350_Lyngbya_sp._HA4199-MV5
KME45_00415_Stenomitos_rutilans_HA7619-LM2
      KME07_23375_Pegethrix_bostrychoides_GSE-TBD4-15B
KME11_02775_Timaviella_obliquedivisa_GSE-PSE-MK23-08B
                            P9515_13061_Prochlorococcus_marinus_str._MIT_9515
                       ↑ PMT9312_1238_Prochlorococcus_marinus_str._MIT_9312
                             ➡9₱9215_13461_Prochlorococcus_marinus_str._MIT_9215
                          Poage 13 171 Prochlorococcus marinus str. AS9601
                             PP9301_13311_Prochlorococcus_marinus_str._MIT_9301
                           EW14_1374_Prochlorococcus_sp._MIT_0604_MIT_0604
                         KR100_12250_Synechococcus_sp._KORDI-100_KORDI-100
                         Syncc9902_0689_Synechococcus_sp._CC9902_CC9902

sync_0920_Synechococcus_sp._CC9311_CC9311

RR49_05060_Synechococcus_sp._KORDI-49_KORDI-49
                        KR49_05060_Synechococcus_sp._NONDI-43_NONDI-43
SynWH8103_00800_Synechococcus_sp._WH_8103_WH_8103
KR52_06420_Synechococcus_sp._KORDI-52_KORDI-52
Syncc9605_1970_Synechococcus_sp._CC9605_CC9605
Syncc8109_2069_Synechococcus_sp._WH_8109_WH_8109
                                KME02_16250_Aphanothece_saxicola_GSE-SYN-MK-01-06B
Cyagr_1151_Cyanobium_gracile_PCC_6307_
                               EW15_1651_Prochlorococcus_sp._MIT_0801_MIT_0801

1PMN2A_0751_Prochlorococcus_marinus_str._NATL2A
                            NATL1_15911_Prochlorococcus_marinus_str._NATL1A
                       Pro_1236_Prochlorococcus_marinus_subsp._marinus_str._CCMP1375_CCMP1375__SS120
```