

Supplementary Materials

Table S1. List of the 83 finished genomes present in the Integrated Microbial Genomes (IMG).

taxon_oid	taxon_name
641228474	<i>Acaryochloris marina</i> MBIC11017
2503982047	<i>Anabaena cylindrica</i> PCC 7122
2561511140	<i>Anabaena</i> sp. 90
646564504	<i>Anabaena variabilis</i> ATCC 29413
650377906	<i>Arthrospira platensis</i> NIES-39
2503982036	<i>Calothrix</i> sp. PCC 6303
2505679032	<i>Calothrix</i> sp. PCC 7507
2510436000	<i>Chamaesiphon minutus</i> PCC 6605
2503538021	<i>Chroococcidiopsis thermalis</i> PCC 7203
2504643013	<i>Crinalium epipsammum</i> PCC 9333
2503707009	<i>Cyanobacterium aponinum</i> PCC 10605
646311970	<i>Cyanobacterium</i> sp. UCYN-A
2503283023	<i>Cyanobacterium stanieri</i> PCC 7202
2508501011	<i>Cyanobium gracile</i> PCC 6307
641522622	<i>Cyanothece</i> sp. BH68, ATCC 51142
643348533	<i>Cyanothece</i> sp. PCC 7424
643348534	<i>Cyanothece</i> sp. PCC 7425
648028021	<i>Cyanothece</i> sp. PCC 7822
643348535	<i>Cyanothece</i> sp. PCC 8801
644736348	<i>Cyanothece</i> sp. PCC 8802
2509601025	<i>Cylindrospermum stagnale</i> PCC 7417
2509276056	<i>Dactylococcopsis salina</i> PCC 8305
2503538020	<i>Geitlerinema</i> sp. PCC 7407
2558309063	<i>Gloeobacter kilaueensis</i> JS1
637000121	<i>Gloeobacter violaceus</i> PCC 7421
2503754017	<i>Gloeocapsa</i> sp. PCC 7428
2503538028	<i>Halothece</i> sp. PCC 7418
2022827000	<i>Leptolyngbya</i> sp. JSC-1
2556921600	<i>Leptolyngbya</i> sp. JSC-1
2503754048	<i>Leptolyngbya</i> sp. PCC 7376
2509276031	<i>Microcoleus</i> sp. PCC 7113
641522640	<i>Microcystis aeruginosa</i> NIES-843
2562617131	<i>Nodularia spumigena</i> CCY9414
648028001	<i>Nostoc azollae</i> 0708
642555144	<i>Nostoc punctiforme</i> PCC 73102
2503707008	<i>Nostoc</i> sp. PCC 7107
637000199	<i>Nostoc</i> sp. PCC 7120
2509601032	<i>Nostoc</i> sp. PCC 7524
2509276028	<i>Oscillatoria acuminata</i> PCC 6304
2503982035	<i>Oscillatoria nigro-viridis</i> PCC 7112
2509276061	<i>Pleurocapsa</i> sp. PCC 7327
640069321	<i>Prochlorococcus marinus</i> AS9601
637000213	<i>Prochlorococcus marinus marinus</i> CCMP 1375
641228501	<i>Prochlorococcus marinus</i> MIT 9211

Table S1. Cont.

taxon_oid	taxon_name
640753041	<i>Prochlorococcus marinus</i> MIT 9215
640069322	<i>Prochlorococcus marinus</i> MIT 9301
640069323	<i>Prochlorococcus marinus</i> MIT 9303
637000210	<i>Prochlorococcus marinus</i> MIT 9312
637000211	<i>Prochlorococcus marinus</i> MIT 9313
640069324	<i>Prochlorococcus marinus</i> MIT 9515
640069325	<i>Prochlorococcus marinus</i> NATL1A
637000212	<i>Prochlorococcus marinus</i> NATL2A
637000214	<i>Prochlorococcus marinus pastoris</i> CCMP 1986
2504643012	<i>Pseudanabaena</i> sp. PCC 7367
2510065008	<i>Rivularia</i> sp. PCC 7116
2503754019	<i>Stanieria cyanosphaera</i> PCC 7437
637000307	<i>Synechococcus elongatus</i> PCC 6301
637000308	<i>Synechococcus elongatus</i> PCC 7942
637000309	<i>Synechococcus</i> sp. CC9311
637000310	<i>Synechococcus</i> sp. CC9605
637000311	<i>Synechococcus</i> sp. CC9902
637000312	<i>Synechococcus</i> sp. JA-2-3B'a(2-13)
637000313	<i>Synechococcus</i> sp. JA-3-3Ab
2507262013	<i>Synechococcus</i> sp. KORDI-100 (genome sequencing)
2507262011	<i>Synechococcus</i> sp. KORDI-49 (genome sequencing)
2507262012	<i>Synechococcus</i> sp. KORDI-52 (genome sequencing)
2509276030	<i>Synechococcus</i> sp. PCC 6312
641522654	<i>Synechococcus</i> sp. PCC 7002
2508501041	<i>Synechococcus</i> sp. PCC 7502
640427148	<i>Synechococcus</i> sp. RCC 307
640427149	<i>Synechococcus</i> sp. WH 7803
2507262052	<i>Synechococcus</i> sp. WH 8016
2563366603	<i>Synechococcus</i> sp. WH 8109
637000314	<i>Synechococcus</i> sp. WH8102
651053076	<i>Synechocystis</i> sp. GT-S, PCC 6803
637000315	<i>Synechocystis</i> sp. PCC 6803
2561511183	<i>Synechocystis</i> sp. PCC 6803
2514885032	<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)
2513237196	<i>Synechocystis</i> sp. PCC 6803, GT-I
2513237195	<i>Synechocystis</i> sp. PCC 6803, PCC-N
2524023216	<i>Synechocystis</i> sp. PCC 6803, PCC-P
637000320	<i>Thermosynechococcus elongatus</i> BP-1
637000329	<i>Trichodesmium erythraeum</i> IMS101

Table S2. Genomes in IMG database with genes that encode RelA / SpoT proteins, pfam04607.

Genome	IMG gene ID
<i>Acaryochloris marina</i> MBIC11017	641251608
<i>Anabaena cylindrica</i> PCC 7122	2504130319
<i>Anabaena</i> sp. 90	2562227335
<i>Anabaena variabilis</i> ATCC 29413	646570499
<i>Arthrospira platensis</i> NIES-39	650385044
<i>Calothrix</i> sp. PCC 6303	2504093760
<i>Calothrix</i> sp. PCC 7507	2505800550
<i>Chamaesiphon minutus</i> PCC 6605	2510441767
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503613744
<i>Crinalium epipsammum</i> PCC 9333	2504684641
<i>Cyanobacterium aponinum</i> PCC 10605	2503746022
<i>Cyanobacterium</i> sp. UCYN-A	646529866
<i>Cyanobacterium stanieri</i> PCC 7202	2503365735
<i>Cyanobium gracile</i> PCC 6307 ^a	2508552812; 2508553188
<i>Cyanothece</i> sp. BH68, ATCC 51142 ^a	641674489; 641678900
<i>Cyanothece</i> sp. PCC 7424	643483042
<i>Cyanothece</i> sp. PCC 7425	643585567
<i>Cyanothece</i> sp. PCC 7822	648190236
<i>Cyanothece</i> sp. PCC 8801	643474509
<i>Cyanothece</i> sp. PCC 8802	644979460
<i>Cylindrospermum stagnale</i> PCC 7417	2509766838
<i>Dactylococcopsis salina</i> PCC 8305	2509553554
<i>Geitlerinema</i> sp. PCC 7407	2503606480
<i>Gloeobacter kilaueensis</i> JS1	2558545259
<i>Gloeobacter violaceus</i> PCC 7421	637460151
<i>Gloeocapsa</i> sp. PCC 7428	2503794203
<i>Halothece</i> sp. PCC 7418	2503636336
<i>Leptolyngbya</i> sp. JSC-1	2022827373
<i>Leptolyngbya</i> sp. JSC-1	2558007286
<i>Leptolyngbya</i> sp. PCC 7376	2503887579
<i>Microcoleus</i> sp. PCC 7113	2509437637
<i>Microcystis aeruginosa</i> NIES-843	641539334
<i>Nodularia spumigena</i> CCY9414 ^a	2563161394; 2563163589
<i>Nostoc azollae</i> 0708	648050807
<i>Nostoc punctiforme</i> PCC 73102	642604517
<i>Nostoc</i> sp. PCC 7107	2503739974
<i>Nostoc</i> sp. PCC 7120	637231913
<i>Nostoc</i> sp. PCC 7524	2509812048
<i>Oscillatoria acuminata</i> PCC 6304	2509421186
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504092010
<i>Pleurocapsa</i> sp. PCC 7327	2509573055
<i>Prochlorococcus marinus</i> AS9601	640077908
<i>Prochlorococcus marinus marinus</i> CCMP 1375	637440615
<i>Prochlorococcus marinus</i> MIT 9211	641284553
<i>Prochlorococcus marinus</i> MIT 9215	640942801
<i>Prochlorococcus marinus</i> MIT 9301	640159777

Table S2. Cont.

Genome	IMG gene ID
<i>Prochlorococcus marinus</i> MIT 9303	640088329
<i>Prochlorococcus marinus</i> MIT 9312	637796700
<i>Prochlorococcus marinus</i> MIT 9313	637448827
<i>Prochlorococcus marinus</i> MIT 9515	640079883
<i>Prochlorococcus marinus</i> NATL1A	640083532
<i>Prochlorococcus marinus</i> NATL2A	637688436
<i>Prochlorococcus marinus pastoris</i> CCMP 1986	637449185
<i>Pseudanabaena</i> sp. PCC 7367	2504681999
<i>Rivularia</i> sp. PCC 7116	2510088789
<i>Stanieria cyanosphaera</i> PCC 7437	2503801695
<i>Synechococcus elongatus</i> PCC 6301	637615822
<i>Synechococcus elongatus</i> PCC 7942	637799809
<i>Synechococcus</i> sp. CC9311	638116289
<i>Synechococcus</i> sp. CC9605	637777044
<i>Synechococcus</i> sp. CC9902	637772337
<i>Synechococcus</i> sp. JA-2-3B'a(2-13)	637875943
<i>Synechococcus</i> sp. JA-3-3Ab	637873484
<i>Synechococcus</i> sp. KORDI-100 (genome sequencing)	2507319323
<i>Synechococcus</i> sp. KORDI-49 (genome sequencing)	2507313490
<i>Synechococcus</i> sp. KORDI-52 (genome sequencing)	2507316281
<i>Synechococcus</i> sp. PCC 6312	2509431477
<i>Synechococcus</i> sp. PCC 7002	641612826
<i>Synechococcus</i> sp. PCC 7502	2508688660
<i>Synechococcus</i> sp. RCC 307	640547196
<i>Synechococcus</i> sp. WH 7803	640544724
<i>Synechococcus</i> sp. WH 8016	2507493604
<i>Synechococcus</i> sp. WH 8109	2563725789
<i>Synechococcus</i> sp. WH8102	637446467
<i>Synechocystis</i> sp. GT-S, PCC 6803	651079246
<i>Synechocystis</i> sp. PCC 6803	637010948
<i>Synechocystis</i> sp. PCC 6803	2562386773
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515003857
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514153840
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514150623
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524499189
<i>Thermosynechococcus elongatus</i> BP-1	637313199
<i>Trichodesmium erythraeum</i> IMS101	638107721

Note: ^a Genomes in IMG database possessing two gene copies encoding RelA/SpoT proteins.

Table S3. Genomes in IMG database with genes that encode cyclases homologous to the class III adenylyl cyclase (AC) family that generate cyclic adenosine 3',5'-monophosphate (cAMP), pfam00211.

Genome	IMG gene ID
<i>Acaryochloris marina</i> MBIC11017	641249816
<i>Acaryochloris marina</i> MBIC11017	641252016
<i>Acaryochloris marina</i> MBIC11017	641250505
<i>Acaryochloris marina</i> MBIC11017	641251546
<i>Acaryochloris marina</i> MBIC11017	641252278
<i>Acaryochloris marina</i> MBIC11017	641249944
<i>Acaryochloris marina</i> MBIC11017	641253049
<i>Anabaena cylindrica</i> PCC 7122	2504132792
<i>Anabaena cylindrica</i> PCC 7122	2504131983
<i>Anabaena cylindrica</i> PCC 7122	2504132243
<i>Anabaena cylindrica</i> PCC 7122	2504130518
<i>Anabaena cylindrica</i> PCC 7122	2504131584
<i>Anabaena cylindrica</i> PCC 7122	2504135217
<i>Anabaena cylindrica</i> PCC 7122	2504133648
<i>Anabaena cylindrica</i> PCC 7122	2504134569
<i>Anabaena cylindrica</i> PCC 7122	2504134768
<i>Anabaena cylindrica</i> PCC 7122	2504133263
<i>Anabaena variabilis</i> ATCC 29413	646570206
<i>Anabaena variabilis</i> ATCC 29413	646567732
<i>Anabaena variabilis</i> ATCC 29413	646569236
<i>Anabaena variabilis</i> ATCC 29413	646565568
<i>Anabaena variabilis</i> ATCC 29413	646570153
<i>Arthrospira platensis</i> NIES-39	650385014
<i>Arthrospira platensis</i> NIES-39	650389452
<i>Arthrospira platensis</i> NIES-39	650386101
<i>Arthrospira platensis</i> NIES-39	650387559
<i>Arthrospira platensis</i> NIES-39	650388236
<i>Arthrospira platensis</i> NIES-39	650385978
<i>Arthrospira platensis</i> NIES-39	650389380
<i>Arthrospira platensis</i> NIES-39	650385152
<i>Arthrospira platensis</i> NIES-39	650388557
<i>Arthrospira platensis</i> NIES-39	650383635
<i>Arthrospira platensis</i> NIES-39	650386384
<i>Arthrospira platensis</i> NIES-39	650384005
<i>Arthrospira platensis</i> NIES-39	650388534
<i>Arthrospira platensis</i> NIES-39	650387119
<i>Arthrospira platensis</i> NIES-39	650384762
<i>Arthrospira platensis</i> NIES-39	650389613
<i>Arthrospira platensis</i> NIES-39	650389755
<i>Arthrospira platensis</i> NIES-39	650385595
<i>Arthrospira platensis</i> NIES-39	650384010
<i>Arthrospira platensis</i> NIES-39	650384515

Table S3. Cont.

Genome	IMG gene ID
<i>Arthrospira platensis</i> NIES-39	650388175
<i>Arthrospira platensis</i> NIES-39	650388758
<i>Calothrix</i> sp. PCC 6303	2504097758
<i>Calothrix</i> sp. PCC 6303	2504097470
<i>Calothrix</i> sp. PCC 6303	2504093704
<i>Calothrix</i> sp. PCC 6303	2504098243
<i>Calothrix</i> sp. PCC 6303	2504093614
<i>Calothrix</i> sp. PCC 6303	2504098441
<i>Calothrix</i> sp. PCC 6303	2505803310
<i>Calothrix</i> sp. PCC 6303	2505799840
<i>Calothrix</i> sp. PCC 6303	2505804141
<i>Calothrix</i> sp. PCC 7507	2505802314
<i>Calothrix</i> sp. PCC 7507	2505801867
<i>Calothrix</i> sp. PCC 7507	2505798637
<i>Calothrix</i> sp. PCC 7507	2505803102
<i>Calothrix</i> sp. PCC 7507	2505803468
<i>Calothrix</i> sp. PCC 7507	2505801570
<i>Chamaesiphon minutus</i> PCC 6605	2510438392
<i>Chamaesiphon minutus</i> PCC 6605	2510438430
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503610665
<i>Crinalium epipsammum</i> PCC 9333	2504686334
<i>Crinalium epipsammum</i> PCC 9333	2504684816
<i>Cyanobacterium aponinum</i> PCC 10605	2503747047
<i>Cyanobium gracile</i> PCC 6307	2508553124
<i>Cyanobium gracile</i> PCC 6307	2508553119
<i>Cyanobium gracile</i> PCC 6307	2508553128
<i>Cyanobium gracile</i> PCC 6307	2508553213
<i>Cyanothece</i> sp. BH68, ATCC 51142	641676735
<i>Cyanothece</i> sp. BH68, ATCC 51142	641679237
<i>Cyanothece</i> sp. BH68, ATCC 51142	641676419
<i>Cyanothece</i> sp. PCC 7424	643479673
<i>Cyanothece</i> sp. PCC 7424	643482412
<i>Cyanothece</i> sp. PCC 7424	643584562
<i>Cyanothece</i> sp. PCC 7424	643586729
<i>Cyanothece</i> sp. PCC 7425	643584547
<i>Cyanothece</i> sp. PCC 7425	643583865
<i>Cyanothece</i> sp. PCC 7425	643585371
<i>Cyanothece</i> sp. PCC 7822	648185169
<i>Cyanothece</i> sp. PCC 7822	648186729
<i>Cyanothece</i> sp. PCC 7822	648186749
<i>Cyanothece</i> sp. PCC 8801	643474348
<i>Cyanothece</i> sp. PCC 8801	643477197
<i>Cyanothece</i> sp. PCC 8802	644982162
<i>Cyanothece</i> sp. PCC 8802	644979303
<i>Cylindrospermum stagnale</i> PCC 7417	2509770454

Table S3. Cont.

Genome	IMG gene ID
<i>Cylindrospermum stagnale</i> PCC 7417	2509770816
<i>Cylindrospermum stagnale</i> PCC 7417	2509770584
<i>Cylindrospermum stagnale</i> PCC 7417	2509766931
<i>Cylindrospermum stagnale</i> PCC 7417	2509767326
<i>Cylindrospermum stagnale</i> PCC 7417	2509766326
<i>Cylindrospermum stagnale</i> PCC 7417	2509766237
<i>Cylindrospermum stagnale</i> PCC 7417	2509770070
<i>Cylindrospermum stagnale</i> PCC 7417	2509766684
<i>Dactylococcopsis salina</i> PCC 8305	2509553881
<i>Geitlerinema</i> sp. PCC 7407	2503608233
<i>Geitlerinema</i> sp. PCC 7407	2503606280
<i>Geitlerinema</i> sp. PCC 7407	2503608993
<i>Geitlerinema</i> sp. PCC 7407	2503606451
<i>Geitlerinema</i> sp. PCC 7407	2503608720
<i>Geitlerinema</i> sp. PCC 7407	2503609587
<i>Geitlerinema</i> sp. PCC 7407	2503608551
<i>Geitlerinema</i> sp. PCC 7407	2503606402
<i>Geitlerinema</i> sp. PCC 7407	2503607373
<i>Geitlerinema</i> sp. PCC 7407	2503609848
<i>Geitlerinema</i> sp. PCC 7407	2503609003
<i>Geitlerinema</i> sp. PCC 7407	2503607606
<i>Geitlerinema</i> sp. PCC 7407	2503607724
<i>Gloeobacter violaceus</i> PCC 7421	637457851
<i>Gloeocapsa</i> sp. PCC 7428	2503795127
<i>Halothece</i> sp. PCC 7418	2503636695
<i>Halothece</i> sp. PCC 7418	2503634858
<i>Leptolyngbya</i> sp. JSC-1	2022832563
<i>Leptolyngbya</i> sp. JSC-1	2558008006
<i>Leptolyngbya</i> sp. JSC-1	2558011386
<i>Leptolyngbya</i> sp. JSC-1	2558011507
<i>Leptolyngbya</i> sp. JSC-1	2022827794
<i>Leptolyngbya</i> sp. JSC-1	2558012163
<i>Leptolyngbya</i> sp. JSC-1	2022831869
<i>Leptolyngbya</i> sp. JSC-1	2022828156
<i>Leptolyngbya</i> sp. JSC-1	2558007679
<i>Leptolyngbya</i> sp. JSC-1	2022831739
<i>Leptolyngbya</i> sp. PCC 7376	2503885818
<i>Leptolyngbya</i> sp. PCC 7376	2503887064
<i>Leptolyngbya</i> sp. PCC 7376	2503887524
<i>Leptolyngbya</i> sp. PCC 7376	2503887054
<i>Leptolyngbya</i> sp. PCC 7376	2503887882
<i>Leptolyngbya</i> sp. PCC 7376	2503889444
<i>Leptolyngbya</i> sp. PCC 7376	2503889424
<i>Leptolyngbya</i> sp. PCC 7376	2503889746
<i>Leptolyngbya</i> sp. PCC 7376	2503886537

Table S3. Cont.

Genome	IMG gene ID
<i>Leptolyngbya</i> sp. PCC 7376	2503887249
<i>Leptolyngbya</i> sp. PCC 7376	2503889747
<i>Leptolyngbya</i> sp. PCC 7376	2503888421
<i>Leptolyngbya</i> sp. PCC 7376	2503888253
<i>Leptolyngbya</i> sp. PCC 7376	2503889075
<i>Leptolyngbya</i> sp. PCC 7376	2503888685
<i>Leptolyngbya</i> sp. PCC 7376	2503889298
<i>Leptolyngbya</i> sp. PCC 7376	2503885789
<i>Leptolyngbya</i> sp. PCC 7376	2503888334
<i>Leptolyngbya</i> sp. PCC 7376	2503889140
<i>Leptolyngbya</i> sp. PCC 7376	2503886546
<i>Leptolyngbya</i> sp. PCC 7376	2503887421
<i>Leptolyngbya</i> sp. PCC 7376	2503885816
<i>Leptolyngbya</i> sp. PCC 7376	2503886842
<i>Leptolyngbya</i> sp. PCC 7376	2503886684
<i>Leptolyngbya</i> sp. PCC 7376	2503888738
<i>Leptolyngbya</i> sp. PCC 7376	2503889563
<i>Leptolyngbya</i> sp. PCC 7376	2503889964
<i>Microcoleus</i> sp. PCC 7113	2509435212
<i>Microcoleus</i> sp. PCC 7113	2509434580
<i>Microcoleus</i> sp. PCC 7113	2509438008
<i>Microcoleus</i> sp. PCC 7113	2509432009
<i>Microcoleus</i> sp. PCC 7113	2509434434
<i>Microcoleus</i> sp. PCC 7113	2509437923
<i>Microcoleus</i> sp. PCC 7113	2509434452
<i>Microcoleus</i> sp. PCC 7113	2509435289
<i>Microcoleus</i> sp. PCC 7113	2509438003
<i>Microcoleus</i> sp. PCC 7113	2509434535
<i>Microcoleus</i> sp. PCC 7113	2509437506
<i>Microcoleus</i> sp. PCC 7113	2509435441
<i>Microcoleus</i> sp. PCC 7113	2509436125
<i>Microcoleus</i> sp. PCC 7113	2509432063
<i>Microcoleus</i> sp. PCC 7113	2509433984
<i>Microcoleus</i> sp. PCC 7113	2509438190
<i>Microcoleus</i> sp. PCC 7113	2509433734
<i>Microcoleus</i> sp. PCC 7113	2509434096
<i>Microcoleus</i> sp. PCC 7113	2509434508
<i>Microcoleus</i> sp. PCC 7113	2509435227
<i>Microcoleus</i> sp. PCC 7113	2509435808
<i>Microcoleus</i> sp. PCC 7113	2509436268
<i>Microcoleus</i> sp. PCC 7113	2509435416
<i>Microcoleus</i> sp. PCC 7113	2509435759
<i>Microcoleus</i> sp. PCC 7113	2509435998
<i>Microcoleus</i> sp. PCC 7113	2509436927
<i>Microcoleus</i> sp. PCC 7113	2509435454

Table S3. Cont.

Genome	IMG gene ID
<i>Microcoleus</i> sp. PCC 7113	2509435479
<i>Microcoleus</i> sp. PCC 7113	2509434040
<i>Microcoleus</i> sp. PCC 7113	2509434653
<i>Microcoleus</i> sp. PCC 7113	2509436014
<i>Microcoleus</i> sp. PCC 7113	2509432175
<i>Microcoleus</i> sp. PCC 7113	2509432571
<i>Microcoleus</i> sp. PCC 7113	2509432868
<i>Microcoleus</i> sp. PCC 7113	2509435875
<i>Microcoleus</i> sp. PCC 7113	2509433630
<i>Microcoleus</i> sp. PCC 7113	2509432593
<i>Microcoleus</i> sp. PCC 7113	2509435876
<i>Microcoleus</i> sp. PCC 7113	2509437307
<i>Microcoleus</i> sp. PCC 7113	2509432202
<i>Microcoleus</i> sp. PCC 7113	2509432988
<i>Microcoleus</i> sp. PCC 7113	2509434651
<i>Microcoleus</i> sp. PCC 7113	2509435730
<i>Microcoleus</i> sp. PCC 7113	2509436723
<i>Microcystis aeruginosa</i> NIES-843	641538403
<i>Nodularia spumigena</i> CCY9414	2563161513
<i>Nostoc azollae</i> 0708	648050327
<i>Nostoc azollae</i> 0708	648051282
<i>Nostoc azollae</i> 0708	648942360
<i>Nostoc azollae</i> 0708	648050280
<i>Nostoc punctiforme</i> PCC 73102	642602577
<i>Nostoc punctiforme</i> PCC 73102	642600580
<i>Nostoc punctiforme</i> PCC 73102	642599671
<i>Nostoc punctiforme</i> PCC 73102	642600178
<i>Nostoc punctiforme</i> PCC 73102	642600732
<i>Nostoc punctiforme</i> PCC 73102	642602044
<i>Nostoc punctiforme</i> PCC 73102	642604601
<i>Nostoc punctiforme</i> PCC 73102	642603595
<i>Nostoc</i> sp. PCC 7107	2503742641
<i>Nostoc</i> sp. PCC 7107	2503741192
<i>Nostoc</i> sp. PCC 7107	2503739998
<i>Nostoc</i> sp. PCC 7107	2503740202
<i>Nostoc</i> sp. PCC 7107	2503742887
<i>Nostoc</i> sp. PCC 7107	2503739333
<i>Nostoc</i> sp. PCC 7107	2503742530
<i>Nostoc</i> sp. PCC 7107	2503741684
<i>Nostoc</i> sp. PCC 7120	637231483
<i>Nostoc</i> sp. PCC 7120	637231023
<i>Nostoc</i> sp. PCC 7120	637232274
<i>Nostoc</i> sp. PCC 7120	637231105
<i>Nostoc</i> sp. PCC 7120	637232646
<i>Nostoc</i> sp. PCC 7120	637235368

Table S3. Cont.

Genome	IMG gene ID
<i>Nostoc</i> sp. PCC 7524	2509810202
<i>Nostoc</i> sp. PCC 7524	2509811754
<i>Nostoc</i> sp. PCC 7524	2509813048
<i>Nostoc</i> sp. PCC 7524	2509810698
<i>Nostoc</i> sp. PCC 7524	2509807739
<i>Nostoc</i> sp. PCC 7524	2509809705
<i>Oscillatoria acuminata</i> PCC 6304	2509419774
<i>Oscillatoria acuminata</i> PCC 6304	2509424940
<i>Oscillatoria acuminata</i> PCC 6304	2509424191
<i>Oscillatoria acuminata</i> PCC 6304	2509420242
<i>Oscillatoria acuminata</i> PCC 6304	2509420348
<i>Oscillatoria acuminata</i> PCC 6304	2509421798
<i>Oscillatoria acuminata</i> PCC 6304	2509423105
<i>Oscillatoria acuminata</i> PCC 6304	2509423734
<i>Oscillatoria acuminata</i> PCC 6304	2509419662
<i>Oscillatoria acuminata</i> PCC 6304	2509422828
<i>Oscillatoria acuminata</i> PCC 6304	2509423752
<i>Oscillatoria acuminata</i> PCC 6304	2509419725
<i>Oscillatoria acuminata</i> PCC 6304	2509421799
<i>Oscillatoria acuminata</i> PCC 6304	2509422244
<i>Oscillatoria acuminata</i> PCC 6304	2509421662
<i>Oscillatoria acuminata</i> PCC 6304	2509423163
<i>Oscillatoria acuminata</i> PCC 6304	2509423168
<i>Oscillatoria acuminata</i> PCC 6304	2509422820
<i>Oscillatoria acuminata</i> PCC 6304	2509422045
<i>Oscillatoria acuminata</i> PCC 6304	2509421801
<i>Oscillatoria acuminata</i> PCC 6304	2509423383
<i>Oscillatoria acuminata</i> PCC 6304	2509421348
<i>Oscillatoria acuminata</i> PCC 6304	2509421592
<i>Oscillatoria acuminata</i> PCC 6304	2509423154
<i>Oscillatoria acuminata</i> PCC 6304	2509419711
<i>Oscillatoria acuminata</i> PCC 6304	2509421444
<i>Oscillatoria acuminata</i> PCC 6304	2509422317
<i>Oscillatoria acuminata</i> PCC 6304	2509424566
<i>Oscillatoria acuminata</i> PCC 6304	2509425162
<i>Oscillatoria acuminata</i> PCC 6304	2509421598
<i>Oscillatoria acuminata</i> PCC 6304	2509423435
<i>Oscillatoria acuminata</i> PCC 6304	2509421445
<i>Oscillatoria acuminata</i> PCC 6304	2509424153
<i>Oscillatoria acuminata</i> PCC 6304	2509424565
<i>Oscillatoria acuminata</i> PCC 6304	2509424650
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504090530
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504090531
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504087651
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504089972

Table S3. Cont.

Genome	IMG gene ID
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504088250
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504092292
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504088084
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504088083
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504088249
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504088278
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504089953
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504092807
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504087200
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504089344
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504090981
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504091148
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504092289
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504090724
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504090890
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504086831
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504090604
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504091321
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504089957
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504092578
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504087615
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504090977
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504089981
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504091568
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504091665
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504092470
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504087871
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504090103
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504091287
<i>Pleurocapsa</i> sp. PCC 7327	2509574186
<i>Prochlorococcus marinus</i> MIT 9303	640088356
<i>Prochlorococcus marinus</i> MIT 9303	640085843
<i>Prochlorococcus marinus</i> MIT 9313	637448868
<i>Prochlorococcus marinus</i> MIT 9313	637448862
<i>Pseudanabaena</i> sp. PCC 7367	2504679592
<i>Pseudanabaena</i> sp. PCC 7367	2504681587
<i>Pseudanabaena</i> sp. PCC 7367	2504678659
<i>Pseudanabaena</i> sp. PCC 7367	2504680478
<i>Pseudanabaena</i> sp. PCC 7367	2504680623
<i>Pseudanabaena</i> sp. PCC 7367	2504678706
<i>Pseudanabaena</i> sp. PCC 7367	2504679181
<i>Pseudanabaena</i> sp. PCC 7367	2504679601
<i>Pseudanabaena</i> sp. PCC 7367	2504679602
<i>Pseudanabaena</i> sp. PCC 7367	2504681107
<i>Pseudanabaena</i> sp. PCC 7367	2504681716

Table S3. Cont.

Genome	IMG gene ID
<i>Pseudanabaena</i> sp. PCC 7367	2504678843
<i>Pseudanabaena</i> sp. PCC 7367	2504678940
<i>Pseudanabaena</i> sp. PCC 7367	2504679049
<i>Pseudanabaena</i> sp. PCC 7367	2504680242
<i>Rivularia</i> sp. PCC 7116	2510091297
<i>Rivularia</i> sp. PCC 7116	2510091399
<i>Rivularia</i> sp. PCC 7116	2510090624
<i>Rivularia</i> sp. PCC 7116	2510090626
<i>Rivularia</i> sp. PCC 7116	2510088238
<i>Rivularia</i> sp. PCC 7116	2510089662
<i>Rivularia</i> sp. PCC 7116	2510090847
<i>Rivularia</i> sp. PCC 7116	2510085714
<i>Rivularia</i> sp. PCC 7116	2510088932
<i>Rivularia</i> sp. PCC 7116	2510089202
<i>Rivularia</i> sp. PCC 7116	2510087757
<i>Rivularia</i> sp. PCC 7116	2510091475
<i>Stanieria cyanosphaera</i> PCC 7437	2503799416
<i>Stanieria cyanosphaera</i> PCC 7437	2503801670
<i>Synechococcus elongatus</i> PCC 6301	637616517
<i>Synechococcus elongatus</i> PCC 6301	637617590
<i>Synechococcus elongatus</i> PCC 7942	637799075
<i>Synechococcus elongatus</i> PCC 7942	637800640
<i>Synechococcus</i> sp. CC9311	638116332
<i>Synechococcus</i> sp. CC9605	637777102
<i>Synechococcus</i> sp. JA-2-3B'a(2-13)	637874594
<i>Synechococcus</i> sp. JA-2-3B'a(2-13)	637876597
<i>Synechococcus</i> sp. JA-3-3Ab	637873934
<i>Synechococcus</i> sp. KORDI-100 (genome sequencing)	2507319326
<i>Synechococcus</i> sp. KORDI-100 (genome sequencing)	2507319379
<i>Synechococcus</i> sp. KORDI-52 (genome sequencing)	2507316350
<i>Synechococcus</i> sp. PCC 6312	2509430649
<i>Synechococcus</i> sp. PCC 6312	2509430692
<i>Synechococcus</i> sp. PCC 6312	2509428887
<i>Synechococcus</i> sp. PCC 7002	641611916
<i>Synechococcus</i> sp. PCC 7502	2508689601
<i>Synechococcus</i> sp. PCC 7502	2508690139
<i>Synechococcus</i> sp. PCC 7502	2508688248
<i>Synechococcus</i> sp. PCC 7502	2508688738
<i>Synechococcus</i> sp. PCC 7502	2508687469
<i>Synechococcus</i> sp. PCC 7502	2508688093
<i>Synechococcus</i> sp. PCC 7502	2508687428
<i>Synechococcus</i> sp. PCC 7502	2508689904
<i>Synechococcus</i> sp. PCC 7502	2508689905
<i>Synechococcus</i> ssp. WH 7803	640544776
<i>Synechococcus</i> sp. WH 8016	2507493538

Table S3. Cont.

Genome	IMG gene ID
<i>Synechococcus</i> sp. WH 8016	2507493550
<i>Synechocystis</i> sp. GT-S, PCC 6803	651078125
<i>Synechocystis</i> sp. GT-S, PCC 6803	651079045
<i>Synechocystis</i> sp. GT-S, PCC 6803	651078990
<i>Synechocystis</i> sp. PCC 6803	637009825
<i>Synechocystis</i> sp. PCC 6803	2562385654
<i>Synechocystis</i> sp. PCC 6803	637010692
<i>Synechocystis</i> sp. PCC 6803	637010747
<i>Synechocystis</i> sp. PCC 6803	2562386518
<i>Synechocystis</i> sp. PCC 6803	2562386573
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515002673
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515003584
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515003639
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514152720
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514153584
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514153639
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514149503
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514150367
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514150422
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524498069
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524498933
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524498988
<i>Thermosynechococcus elongatus</i> BP-1	637314922
<i>Thermosynechococcus elongatus</i> BP-1	637315055
<i>Trichodesmium erythraeum</i> IMS101	638108908
<i>Trichodesmium erythraeum</i> IMS101	638109458
<i>Trichodesmium erythraeum</i> IMS101	638107103
<i>Trichodesmium erythraeum</i> IMS101	638105960
<i>Trichodesmium erythraeum</i> IMS101	638107789
<i>Trichodesmium erythraeum</i> IMS101	638108395
<i>Trichodesmium erythraeum</i> IMS101	638105961
<i>Trichodesmium erythraeum</i> IMS101	638105725
<i>Trichodesmium erythraeum</i> IMS101	638107907
<i>Trichodesmium erythraeum</i> IMS101	638105947
<i>Trichodesmium erythraeum</i> IMS101	638107507
<i>Trichodesmium erythraeum</i> IMS101	638108914
<i>Trichodesmium erythraeum</i> IMS101	638108164

Table S4. Genomes found which do not encode for adenylate and guanylate cyclase catalytic domain, pfam00211.

Genome	Ecosystem
<i>Anabaena</i> sp. 90	Lake Vesijdrvi, Finland
<i>Cyanobacterium</i> sp. UCYN-A	Marine
<i>Cyanobacterium stanieri</i> PCC 7202	Thermal springs
<i>Gloeobacter kilaueensis</i> JS1	epilithic biofilm in a lava cave in Kīlauea Caldera

Table S4. Cont.

Genome	Ecosystem
<i>Prochlorococcus marinus</i> AS9601	Mediterranean Sea
<i>Prochlorococcus marinus marinus</i> CCMP 1375	Atlantic Ocean
<i>Prochlorococcus marinus</i> MIT 9211	Equatorial Pacific
<i>Prochlorococcus marinus</i> MIT 9215	Equatorial Pacific
<i>Prochlorococcus marinus</i> MIT 9301	Sargasso Sea
<i>Prochlorococcus marinus</i> MIT 9312	Gulf Stream of North Atlantic Ocean
<i>Prochlorococcus marinus</i> MIT 9515	Equatorial Pacific
<i>Prochlorococcus marinus</i> NATL1A	North Atlantic Ocean
<i>Prochlorococcus marinus</i> NATL2A	North Atlantic Ocean
<i>Prochlorococcus marinus pastoris</i> CCMP 1986	Mediterranean Sea
<i>Prochlorococcus</i> sp. CC9902	California current
<i>Synechococcus</i> sp. KORDI-49 (genome sequencing)	East China Sea
<i>Synechococcus</i> sp. RCC 307	Mediterranean Sea
<i>Synechococcus</i> sp. WH 8109	Sargasso Sea

Table S5. Genomes in IMG database with genes that encode diguanylate cyclase, pfam00990.

Genome	IMG gene ID
<i>Acaryochloris marina</i> MBIC11017	641253850
<i>Acaryochloris marina</i> MBIC11017	641254192
<i>Acaryochloris marina</i> MBIC11017	641252581
<i>Acaryochloris marina</i> MBIC11017	641253651
<i>Acaryochloris marina</i> MBIC11017	641249662
<i>Acaryochloris marina</i> MBIC11017	641254920
<i>Acaryochloris marina</i> MBIC11017	641250732
<i>Acaryochloris marina</i> MBIC11017	641249639
<i>Acaryochloris marina</i> MBIC11017	641253394
<i>Acaryochloris marina</i> MBIC11017	641255018
<i>Acaryochloris marina</i> MBIC11017	641249319
<i>Acaryochloris marina</i> MBIC11017	641250370
<i>Acaryochloris marina</i> MBIC11017	641251401
<i>Acaryochloris marina</i> MBIC11017	641252416
<i>Acaryochloris marina</i> MBIC11017	641253018
<i>Acaryochloris marina</i> MBIC11017	641254163
<i>Acaryochloris marina</i> MBIC11017	641254693
<i>Acaryochloris marina</i> MBIC11017	641250520
<i>Acaryochloris marina</i> MBIC11017	641250943
<i>Acaryochloris marina</i> MBIC11017	641253154
<i>Acaryochloris marina</i> MBIC11017	641254638
<i>Acaryochloris marina</i> MBIC11017	641256783
<i>Acaryochloris marina</i> MBIC11017	641249196
<i>Acaryochloris marina</i> MBIC11017	641249663
<i>Acaryochloris marina</i> MBIC11017	641252541
<i>Acaryochloris marina</i> MBIC11017	641254285
<i>Acaryochloris marina</i> MBIC11017	641255107
<i>Acaryochloris marina</i> MBIC11017	641257525

Table S5. Cont.

Genome	IMG gene ID
<i>Acaryochloris marina</i> MBIC11017	641250165
<i>Acaryochloris marina</i> MBIC11017	641252029
<i>Acaryochloris marina</i> MBIC11017	641252135
<i>Acaryochloris marina</i> MBIC11017	641254055
<i>Acaryochloris marina</i> MBIC11017	641254301
<i>Acaryochloris marina</i> MBIC11017	641249679
<i>Acaryochloris marina</i> MBIC11017	641249696
<i>Acaryochloris marina</i> MBIC11017	641252795
<i>Acaryochloris marina</i> MBIC11017	641253905
<i>Acaryochloris marina</i> MBIC11017	641254921
<i>Acaryochloris marina</i> MBIC11017	641250827
<i>Acaryochloris marina</i> MBIC11017	641252652
<i>Acaryochloris marina</i> MBIC11017	641254023
<i>Acaryochloris marina</i> MBIC11017	641254057
<i>Acaryochloris marina</i> MBIC11017	641254707
<i>Acaryochloris marina</i> MBIC11017	641255253
<i>Acaryochloris marina</i> MBIC11017	641249143
<i>Acaryochloris marina</i> MBIC11017	641250740
<i>Acaryochloris marina</i> MBIC11017	641252372
<i>Acaryochloris marina</i> MBIC11017	641252957
<i>Acaryochloris marina</i> MBIC11017	641251950
<i>Acaryochloris marina</i> MBIC11017	641252085
<i>Acaryochloris marina</i> MBIC11017	641252651
<i>Acaryochloris marina</i> MBIC11017	641254056
<i>Acaryochloris marina</i> MBIC11017	641254228
<i>Anabaena cylindrica</i> PCC 7122	2504135312
<i>Anabaena cylindrica</i> PCC 7122	2504134563
<i>Anabaena cylindrica</i> PCC 7122	2504131400
<i>Anabaena cylindrica</i> PCC 7122	2504134934
<i>Anabaena cylindrica</i> PCC 7122	2504130473
<i>Anabaena cylindrica</i> PCC 7122	2504133016
<i>Anabaena cylindrica</i> PCC 7122	2504132666
<i>Anabaena cylindrica</i> PCC 7122	2504134984
<i>Anabaena cylindrica</i> PCC 7122	2504132210
<i>Anabaena cylindrica</i> PCC 7122	2504131261
<i>Anabaena cylindrica</i> PCC 7122	2504133367
<i>Anabaena cylindrica</i> PCC 7122	2504133562
<i>Anabaena cylindrica</i> PCC 7122	2504131651
<i>Anabaena cylindrica</i> PCC 7122	2504132131
<i>Anabaena cylindrica</i> PCC 7122	2504132453
<i>Anabaena cylindrica</i> PCC 7122	2504133014
<i>Anabaena cylindrica</i> PCC 7122	2504129857
<i>Anabaena cylindrica</i> PCC 7122	2504132499
<i>Anabaena cylindrica</i> PCC 7122	2504134078
<i>Anabaena cylindrica</i> PCC 7122	2504134246

Table S5. Cont.

Genome	IMG gene ID
<i>Anabaena cylindrica</i> PCC 7122	2504132041
<i>Anabaena cylindrica</i> PCC 7122	2504132925
<i>Anabaena</i> sp. 90	2562227114
<i>Anabaena</i> sp. 90	2562229558
<i>Anabaena</i> sp. 90	2562227772
<i>Anabaena</i> sp. 90	2562229508
<i>Anabaena</i> sp. 90	2562230961
<i>Anabaena variabilis</i> ATCC 29413	646566116
<i>Anabaena variabilis</i> ATCC 29413	646568735
<i>Anabaena variabilis</i> ATCC 29413	646566157
<i>Anabaena variabilis</i> ATCC 29413	646569646
<i>Anabaena variabilis</i> ATCC 29413	646566313
<i>Anabaena variabilis</i> ATCC 29413	646565702
<i>Anabaena variabilis</i> ATCC 29413	646569371
<i>Anabaena variabilis</i> ATCC 29413	646568670
<i>Anabaena variabilis</i> ATCC 29413	646569930
<i>Anabaena variabilis</i> ATCC 29413	646565600
<i>Anabaena variabilis</i> ATCC 29413	646567917
<i>Anabaena variabilis</i> ATCC 29413	646569171
<i>Anabaena variabilis</i> ATCC 29413	646566517
<i>Anabaena variabilis</i> ATCC 29413	646568206
<i>Arthrospira platensis</i> NIES-39	650384049
<i>Arthrospira platensis</i> NIES-39	650389159
<i>Arthrospira platensis</i> NIES-39	650385927
<i>Arthrospira platensis</i> NIES-39	650388520
<i>Arthrospira platensis</i> NIES-39	650386460
<i>Arthrospira platensis</i> NIES-39	650389574
<i>Arthrospira platensis</i> NIES-39	650388654
<i>Arthrospira platensis</i> NIES-39	650387653
<i>Arthrospira platensis</i> NIES-39	650384441
<i>Arthrospira platensis</i> NIES-39	650383636
<i>Arthrospira platensis</i> NIES-39	650384350
<i>Arthrospira platensis</i> NIES-39	650384400
<i>Arthrospira platensis</i> NIES-39	650385385
<i>Arthrospira platensis</i> NIES-39	650388116
<i>Arthrospira platensis</i> NIES-39	650389735
<i>Arthrospira platensis</i> NIES-39	650386048
<i>Arthrospira platensis</i> NIES-39	650387783
<i>Arthrospira platensis</i> NIES-39	650385986
<i>Arthrospira platensis</i> NIES-39	650387673
<i>Arthrospira platensis</i> NIES-39	650388554
<i>Arthrospira platensis</i> NIES-39	650387985
<i>Arthrospira platensis</i> NIES-39	650385828
<i>Arthrospira platensis</i> NIES-39	650386659
<i>Arthrospira platensis</i> NIES-39	650389064

Table S5. Cont.

Genome	IMG gene ID
<i>Arthrospira platensis</i> NIES-39	650389067
<i>Arthrospira platensis</i> NIES-39	650389556
<i>Arthrospira platensis</i> NIES-39	650384685
<i>Arthrospira platensis</i> NIES-39	650386115
<i>Arthrospira platensis</i> NIES-39	650386662
<i>Arthrospira platensis</i> NIES-39	650387605
<i>Arthrospira platensis</i> NIES-39	650384007
<i>Arthrospira platensis</i> NIES-39	650386323
<i>Arthrospira platensis</i> NIES-39	650388926
<i>Calothrix</i> sp. PCC 6303	2504097669
<i>Calothrix</i> sp. PCC 6303	2504093750
<i>Calothrix</i> sp. PCC 6303	2504093871
<i>Calothrix</i> sp. PCC 6303	2504094509
<i>Calothrix</i> sp. PCC 6303	2504098610
<i>Calothrix</i> sp. PCC 6303	2504095172
<i>Calothrix</i> sp. PCC 7507	2505798297
<i>Calothrix</i> sp. PCC 7507	2505803586
<i>Calothrix</i> sp. PCC 7507	2505803444
<i>Calothrix</i> sp. PCC 7507	2505798644
<i>Calothrix</i> sp. PCC 7507	2505802528
<i>Calothrix</i> sp. PCC 7507	2505798920
<i>Calothrix</i> sp. PCC 7507	2505799347
<i>Calothrix</i> sp. PCC 7507	2505801146
<i>Calothrix</i> sp. PCC 7507	2505801633
<i>Calothrix</i> sp. PCC 7507	2505800509
<i>Chamaesiphon minutus</i> PCC 6605	2510441314
<i>Chamaesiphon minutus</i> PCC 6605	2510442085
<i>Chamaesiphon minutus</i> PCC 6605	2510439286
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503611873
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503614492
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503614368
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503613764
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503612951
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503612146
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503615644
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503615054
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503611859
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503609891
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503614623
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503613513
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503611571
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503615423
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503611617
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503615799
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503612240

Table S5. Cont.

Genome	IMG gene ID
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503614375
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503611246
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503611882
<i>Crinalium epipsammum</i> PCC 9333	2504684959
<i>Crinalium epipsammum</i> PCC 9333	2504686879
<i>Crinalium epipsammum</i> PCC 9333	2504686831
<i>Crinalium epipsammum</i> PCC 9333	2504682680
<i>Crinalium epipsammum</i> PCC 9333	2504683874
<i>Crinalium epipsammum</i> PCC 9333	2504682458
<i>Crinalium epipsammum</i> PCC 9333	2504682549
<i>Crinalium epipsammum</i> PCC 9333	2504683019
<i>Crinalium epipsammum</i> PCC 9333	2504684644
<i>Crinalium epipsammum</i> PCC 9333	2504685429
<i>Crinalium epipsammum</i> PCC 9333	2504686461
<i>Crinalium epipsammum</i> PCC 9333	2504686543
<i>Crinalium epipsammum</i> PCC 9333	2504684153
<i>Crinalium epipsammum</i> PCC 9333	2504682468
<i>Crinalium epipsammum</i> PCC 9333	2504686164
<i>Crinalium epipsammum</i> PCC 9333	2504685608
<i>Crinalium epipsammum</i> PCC 9333	2504686791
<i>Cyanobacterium aponinum</i> PCC 10605	2503744648
<i>Cyanobacterium aponinum</i> PCC 10605	2503747272
<i>Cyanobacterium aponinum</i> PCC 10605	2503746111
<i>Cyanobacterium aponinum</i> PCC 10605	2503746742
<i>Cyanobacterium aponinum</i> PCC 10605	2503745092
<i>Cyanobacterium aponinum</i> PCC 10605	2503744330
<i>Cyanobacterium aponinum</i> PCC 10605	2503747745
<i>Cyanobacterium aponinum</i> PCC 10605	2503744714
<i>Cyanobacterium aponinum</i> PCC 10605	2503746791
<i>Cyanobacterium aponinum</i> PCC 10605	2503745531
<i>Cyanobacterium aponinum</i> PCC 10605	2503745778
<i>Cyanobacterium aponinum</i> PCC 10605	2503746171
<i>Cyanobacterium aponinum</i> PCC 10605	2503747113
<i>Cyanobacterium aponinum</i> PCC 10605	2503744675
<i>Cyanobacterium aponinum</i> PCC 10605	2503744837
<i>Cyanobacterium aponinum</i> PCC 10605	2503745041
<i>Cyanobacterium aponinum</i> PCC 10605	2503745998
<i>Cyanobacterium aponinum</i> PCC 10605	2503747212
<i>Cyanobacterium aponinum</i> PCC 10605	2503747456
<i>Cyanobacterium aponinum</i> PCC 10605	2503744393
<i>Cyanobacterium aponinum</i> PCC 10605	2503745999
<i>Cyanobacterium aponinum</i> PCC 10605	2503747648
<i>Cyanobacterium aponinum</i> PCC 10605	2503744712
<i>Cyanobacterium aponinum</i> PCC 10605	2503745039
<i>Cyanobacterium aponinum</i> PCC 10605	2503746009

Table S5. Cont.

Genome	IMG gene ID
<i>Cyanobacterium aponinum</i> PCC 10605	2503747446
<i>Cyanobacterium stanieri</i> PCC 7202	2503366956
<i>Cyanobacterium stanieri</i> PCC 7202	2503367563
<i>Cyanobacterium stanieri</i> PCC 7202	2503368192
<i>Cyanobacterium stanieri</i> PCC 7202	2503365956
<i>Cyanobacterium stanieri</i> PCC 7202	2503365800
<i>Cyanobacterium stanieri</i> PCC 7202	2503366429
<i>Cyanobacterium stanieri</i> PCC 7202	2503365629
<i>Cyanobacterium stanieri</i> PCC 7202	2503365578
<i>Cyanobacterium stanieri</i> PCC 7202	2503365720
<i>Cyanobacterium stanieri</i> PCC 7202	2503366559
<i>Cyanobacterium stanieri</i> PCC 7202	2503365728
<i>Cyanobacterium stanieri</i> PCC 7202	2503366914
<i>Cyanobium gracile</i> PCC 6307	2508553787
<i>Cyanobium gracile</i> PCC 6307	2508552856
<i>Cyanobium gracile</i> PCC 6307	2508551125
<i>Cyanobium gracile</i> PCC 6307	2508552827
<i>Cyanobium gracile</i> PCC 6307	2508553414
<i>Cyanobium gracile</i> PCC 6307	2508553489
<i>Cyanobium gracile</i> PCC 6307	2508550843
<i>Cyanobium gracile</i> PCC 6307	2508552864
<i>Cyanobium gracile</i> PCC 6307	2508551059
<i>Cyanobium gracile</i> PCC 6307	2508553025
<i>Cyanobium gracile</i> PCC 6307	2508551311
<i>Cyanobium gracile</i> PCC 6307	2508553790
<i>Cyanobium gracile</i> PCC 6307	2508552954
<i>Cyanobium gracile</i> PCC 6307	2508550644
<i>Cyanobium gracile</i> PCC 6307	2508550838
<i>Cyanothece</i> sp. BH68, ATCC 51142	641678242
<i>Cyanothece</i> sp. BH68, ATCC 51142	641674837
<i>Cyanothece</i> sp. BH68, ATCC 51142	641675720
<i>Cyanothece</i> sp. BH68, ATCC 51142	641675682
<i>Cyanothece</i> sp. BH68, ATCC 51142	641675875
<i>Cyanothece</i> sp. BH68, ATCC 51142	641675157
<i>Cyanothece</i> sp. BH68, ATCC 51142	641675238
<i>Cyanothece</i> sp. BH68, ATCC 51142	641678072
<i>Cyanothece</i> sp. BH68, ATCC 51142	641676002
<i>Cyanothece</i> sp. BH68, ATCC 51142	641678684
<i>Cyanothece</i> sp. BH68, ATCC 51142	641677168
<i>Cyanothece</i> sp. BH68, ATCC 51142	641677276
<i>Cyanothece</i> sp. BH68, ATCC 51142	641677277
<i>Cyanothece</i> sp. BH68, ATCC 51142	641679087
<i>Cyanothece</i> sp. BH68, ATCC 51142	641679162
<i>Cyanothece</i> sp. BH68, ATCC 51142	641678441
<i>Cyanothece</i> sp. BH68, ATCC 51142	641678796

Table S5. Cont.

Genome	IMG gene ID
<i>Cyanothece</i> sp. BH68, ATCC 51142	641679218
<i>Cyanothece</i> sp. BH68, ATCC 51142	641676866
<i>Cyanothece</i> sp. BH68, ATCC 51142	641679159
<i>Cyanothece</i> sp. BH68, ATCC 51142	641676520
<i>Cyanothece</i> sp. BH68, ATCC 51142	641676782
<i>Cyanothece</i> sp. BH68, ATCC 51142	641677100
<i>Cyanothece</i> sp. BH68, ATCC 51142	641678685
<i>Cyanothece</i> sp. BH68, ATCC 51142	641675888
<i>Cyanothece</i> sp. BH68, ATCC 51142	641676360
<i>Cyanothece</i> sp. BH68, ATCC 51142	641676732
<i>Cyanothece</i> sp. BH68, ATCC 51142	641678683
<i>Cyanothece</i> sp. BH68, ATCC 51142	641675613
<i>Cyanothece</i> sp. BH68, ATCC 51142	641678007
<i>Cyanothece</i> sp. BH68, ATCC 51142	641678212
<i>Cyanothece</i> sp. PCC 7424	643479874
<i>Cyanothece</i> sp. PCC 7424	643481335
<i>Cyanothece</i> sp. PCC 7424	643481336
<i>Cyanothece</i> sp. PCC 7424	643481481
<i>Cyanothece</i> sp. PCC 7424	643480020
<i>Cyanothece</i> sp. PCC 7424	643480153
<i>Cyanothece</i> sp. PCC 7424	643479352
<i>Cyanothece</i> sp. PCC 7424	643482351
<i>Cyanothece</i> sp. PCC 7424	643480318
<i>Cyanothece</i> sp. PCC 7424	643481762
<i>Cyanothece</i> sp. PCC 7424	643478866
<i>Cyanothece</i> sp. PCC 7424	643481275
<i>Cyanothece</i> sp. PCC 7424	643481372
<i>Cyanothece</i> sp. PCC 7424	643483150
<i>Cyanothece</i> sp. PCC 7424	643483296
<i>Cyanothece</i> sp. PCC 7424	643481371
<i>Cyanothece</i> sp. PCC 7424	643483085
<i>Cyanothece</i> sp. PCC 7424	643481003
<i>Cyanothece</i> sp. PCC 7424	643481905
<i>Cyanothece</i> sp. PCC 7424	643478455
<i>Cyanothece</i> sp. PCC 7424	643479594
<i>Cyanothece</i> sp. PCC 7424	643480280
<i>Cyanothece</i> sp. PCC 7424	643480839
<i>Cyanothece</i> sp. PCC 7424	643481370
<i>Cyanothece</i> sp. PCC 7424	643481810
<i>Cyanothece</i> sp. PCC 7424	643478955
<i>Cyanothece</i> sp. PCC 7424	643479553
<i>Cyanothece</i> sp. PCC 7424	643480521
<i>Cyanothece</i> sp. PCC 7424	643483345
<i>Cyanothece</i> sp. PCC 7424	643479253
<i>Cyanothece</i> sp. PCC 7424	643480065

Table S5. Cont.

Genome	IMG gene ID
<i>Cyanothece</i> sp. PCC 7424	643483425
<i>Cyanothece</i> sp. PCC 7424	643483321
<i>Cyanothece</i> sp. PCC 7425	643587776
<i>Cyanothece</i> sp. PCC 7425	643586525
<i>Cyanothece</i> sp. PCC 7425	643586464
<i>Cyanothece</i> sp. PCC 7425	643587995
<i>Cyanothece</i> sp. PCC 7425	643585923
<i>Cyanothece</i> sp. PCC 7425	643586637
<i>Cyanothece</i> sp. PCC 7425	643586248
<i>Cyanothece</i> sp. PCC 7425	643583816
<i>Cyanothece</i> sp. PCC 7425	643586186
<i>Cyanothece</i> sp. PCC 7425	643586821
<i>Cyanothece</i> sp. PCC 7425	643583744
<i>Cyanothece</i> sp. PCC 7425	643584225
<i>Cyanothece</i> sp. PCC 7425	643586154
<i>Cyanothece</i> sp. PCC 7425	643586502
<i>Cyanothece</i> sp. PCC 7425	643587935
<i>Cyanothece</i> sp. PCC 7425	643585326
<i>Cyanothece</i> sp. PCC 7425	643586535
<i>Cyanothece</i> sp. PCC 7425	643584392
<i>Cyanothece</i> sp. PCC 7425	643583287
<i>Cyanothece</i> sp. PCC 7822	648188005
<i>Cyanothece</i> sp. PCC 7822	648188511
<i>Cyanothece</i> sp. PCC 7822	648185430
<i>Cyanothece</i> sp. PCC 7822	648188671
<i>Cyanothece</i> sp. PCC 7822	648185008
<i>Cyanothece</i> sp. PCC 7822	648199713
<i>Cyanothece</i> sp. PCC 7822	648189800
<i>Cyanothece</i> sp. PCC 7822	648190131
<i>Cyanothece</i> sp. PCC 7822	648186667
<i>Cyanothece</i> sp. PCC 7822	648188842
<i>Cyanothece</i> sp. PCC 7822	648186025
<i>Cyanothece</i> sp. PCC 7822	648189517
<i>Cyanothece</i> sp. PCC 7822	648187436
<i>Cyanothece</i> sp. PCC 7822	648187559
<i>Cyanothece</i> sp. PCC 7822	648188274
<i>Cyanothece</i> sp. PCC 7822	648188717
<i>Cyanothece</i> sp. PCC 7822	648188925
<i>Cyanothece</i> sp. PCC 7822	648188956
<i>Cyanothece</i> sp. PCC 7822	648189998
<i>Cyanothece</i> sp. PCC 7822	648187123
<i>Cyanothece</i> sp. PCC 7822	648189084
<i>Cyanothece</i> sp. PCC 7822	648186342
<i>Cyanothece</i> sp. PCC 7822	648190120
<i>Cyanothece</i> sp. PCC 7822	648190332

Table S5. Cont.

Genome	IMG gene ID
<i>Cyanothece</i> sp. PCC 7822	648199796
<i>Cyanothece</i> sp. PCC 7822	648187218
<i>Cyanothece</i> sp. PCC 7822	648187464
<i>Cyanothece</i> sp. PCC 7822	648187813
<i>Cyanothece</i> sp. PCC 7822	648187997
<i>Cyanothece</i> sp. PCC 7822	648188414
<i>Cyanothece</i> sp. PCC 7822	648188715
<i>Cyanothece</i> sp. PCC 7822	648189450
<i>Cyanothece</i> sp. PCC 7822	648189751
<i>Cyanothece</i> sp. PCC 7822	648186592
<i>Cyanothece</i> sp. PCC 7822	648187417
<i>Cyanothece</i> sp. PCC 7822	648188642
<i>Cyanothece</i> sp. PCC 7822	648188716
<i>Cyanothece</i> sp. PCC 8801	643474895
<i>Cyanothece</i> sp. PCC 8801	643473137
<i>Cyanothece</i> sp. PCC 8801	643473628
<i>Cyanothece</i> sp. PCC 8801	643477404
<i>Cyanothece</i> sp. PCC 8801	643473917
<i>Cyanothece</i> sp. PCC 8801	643474507
<i>Cyanothece</i> sp. PCC 8801	643474431
<i>Cyanothece</i> sp. PCC 8801	643475214
<i>Cyanothece</i> sp. PCC 8801	643476282
<i>Cyanothece</i> sp. PCC 8801	643476775
<i>Cyanothece</i> sp. PCC 8801	643477329
<i>Cyanothece</i> sp. PCC 8801	643473538
<i>Cyanothece</i> sp. PCC 8801	643475108
<i>Cyanothece</i> sp. PCC 8801	643474227
<i>Cyanothece</i> sp. PCC 8801	643475099
<i>Cyanothece</i> sp. PCC 8801	643475695
<i>Cyanothece</i> sp. PCC 8801	643473943
<i>Cyanothece</i> sp. PCC 8801	643477328
<i>Cyanothece</i> sp. PCC 8801	643473120
<i>Cyanothece</i> sp. PCC 8801	643474019
<i>Cyanothece</i> sp. PCC 8801	643474429
<i>Cyanothece</i> sp. PCC 8801	643474781
<i>Cyanothece</i> sp. PCC 8801	643475696
<i>Cyanothece</i> sp. PCC 8802	644979841
<i>Cyanothece</i> sp. PCC 8802	644978067
<i>Cyanothece</i> sp. PCC 8802	644978568
<i>Cyanothece</i> sp. PCC 8802	644982395
<i>Cyanothece</i> sp. PCC 8802	644979182
<i>Cyanothece</i> sp. PCC 8802	644980045
<i>Cyanothece</i> sp. PCC 8802	644981382
<i>Cyanothece</i> sp. PCC 8802	644979381
<i>Cyanothece</i> sp. PCC 8802	644979725

Table S5. Cont.

Genome	IMG gene ID
<i>Cyanothece</i> sp. PCC 8802	644982321
<i>Cyanothece</i> sp. PCC 8802	644978477
<i>Cyanothece</i> sp. PCC 8802	644978892
<i>Cyanothece</i> sp. PCC 8802	644978969
<i>Cyanothece</i> sp. PCC 8802	644979383
<i>Cyanothece</i> sp. PCC 8802	644980054
<i>Cyanothece</i> sp. PCC 8802	644978050
<i>Cyanothece</i> sp. PCC 8802	644978868
<i>Cyanothece</i> sp. PCC 8802	644979458
<i>Cyanothece</i> sp. PCC 8802	644980194
<i>Cyanothece</i> sp. PCC 8802	644982320
<i>Cyanothece</i> sp. PCC 8802	644981381
<i>Cyanothece</i> sp. PCC 8802	644981744
<i>Cyanothece</i> sp. PCC 8802	644980808
<i>Cylindrospermum stagnale</i> PCC 7417	2509771556
<i>Cylindrospermum stagnale</i> PCC 7417	2509767421
<i>Cylindrospermum stagnale</i> PCC 7417	2509767610
<i>Cylindrospermum stagnale</i> PCC 7417	2509769746
<i>Cylindrospermum stagnale</i> PCC 7417	2509766809
<i>Cylindrospermum stagnale</i> PCC 7417	2509771018
<i>Cylindrospermum stagnale</i> PCC 7417	2509767677
<i>Cylindrospermum stagnale</i> PCC 7417	2509769361
<i>Cylindrospermum stagnale</i> PCC 7417	2509771097
<i>Cylindrospermum stagnale</i> PCC 7417	2509766622
<i>Cylindrospermum stagnale</i> PCC 7417	2509767549
<i>Dactylococcopsis salina</i> PCC 8305	2509553053
<i>Dactylococcopsis salina</i> PCC 8305	2509552583
<i>Dactylococcopsis salina</i> PCC 8305	2509553447
<i>Geitlerinema</i> sp. PCC 7407	2503607706
<i>Geitlerinema</i> sp. PCC 7407	2503609209
<i>Geitlerinema</i> sp. PCC 7407	2503607898
<i>Geitlerinema</i> sp. PCC 7407	2503609060
<i>Geitlerinema</i> sp. PCC 7407	2503608006
<i>Geitlerinema</i> sp. PCC 7407	2503609242
<i>Geitlerinema</i> sp. PCC 7407	2503608921
<i>Geitlerinema</i> sp. PCC 7407	2503608005
<i>Geitlerinema</i> sp. PCC 7407	2503608506
<i>Geitlerinema</i> sp. PCC 7407	2503606049
<i>Geitlerinema</i> sp. PCC 7407	2503607848
<i>Geitlerinema</i> sp. PCC 7407	2503607066
<i>Geitlerinema</i> sp. PCC 7407	2503607439
<i>Geitlerinema</i> sp. PCC 7407	2503607779
<i>Geitlerinema</i> sp. PCC 7407	2503608881
<i>Geitlerinema</i> sp. PCC 7407	2503606885
<i>Geitlerinema</i> sp. PCC 7407	2503607907

Table S5. Cont.

Genome	IMG gene ID
<i>Geitlerinema</i> sp. PCC 7407	2503609632
<i>Geitlerinema</i> sp. PCC 7407	2503607607
<i>Geitlerinema</i> sp. PCC 7407	2503607123
<i>Geitlerinema</i> sp. PCC 7407	2503607639
<i>Geitlerinema</i> sp. PCC 7407	2503608874
<i>Geitlerinema</i> sp. PCC 7407	2503609359
<i>Gloeobacter kilaueensis</i> JS1	2558546181
<i>Gloeobacter kilaueensis</i> JS1	2558548116
<i>Gloeobacter kilaueensis</i> JS1	2558547597
<i>Gloeobacter kilaueensis</i> JS1	2558549173
<i>Gloeobacter violaceus</i> PCC 7421	637461576
<i>Gloeocapsa</i> sp. PCC 7428	2503796845
<i>Gloeocapsa</i> sp. PCC 7428	2503797182
<i>Gloeocapsa</i> sp. PCC 7428	2503792981
<i>Gloeocapsa</i> sp. PCC 7428	2503796447
<i>Gloeocapsa</i> sp. PCC 7428	2503794591
<i>Gloeocapsa</i> sp. PCC 7428	2503796414
<i>Gloeocapsa</i> sp. PCC 7428	2503796091
<i>Gloeocapsa</i> sp. PCC 7428	2503793106
<i>Gloeocapsa</i> sp. PCC 7428	2503795119
<i>Gloeocapsa</i> sp. PCC 7428	2503796783
<i>Gloeocapsa</i> sp. PCC 7428	2503796485
<i>Gloeocapsa</i> sp. PCC 7428	2503794881
<i>Gloeocapsa</i> sp. PCC 7428	2503797273
<i>Gloeocapsa</i> sp. PCC 7428	2503795415
<i>Gloeocapsa</i> sp. PCC 7428	2503796520
<i>Gloeocapsa</i> sp. PCC 7428	2503792556
<i>Gloeocapsa</i> sp. PCC 7428	2503793912
<i>Halothece</i> sp. PCC 7418	2503636161
<i>Halothece</i> sp. PCC 7418	2503635331
<i>Halothece</i> sp. PCC 7418	2503636449
<i>Halothece</i> sp. PCC 7418	2503637173
<i>Halothece</i> sp. PCC 7418	2503635332
<i>Halothece</i> sp. PCC 7418	2503637577
<i>Halothece</i> sp. PCC 7418	2503635206
<i>Halothece</i> sp. PCC 7418	2503638559
<i>Halothece</i> sp. PCC 7418	2503635033
<i>Halothece</i> sp. PCC 7418	2503636309
<i>Halothece</i> sp. PCC 7418	2503636180
<i>Halothece</i> sp. PCC 7418	2503636319
<i>Halothece</i> sp. PCC 7418	2503637152
<i>Halothece</i> sp. PCC 7418	2503636214
<i>Halothece</i> sp. PCC 7418	2503637013
<i>Halothece</i> sp. PCC 7418	2503637964
<i>Halothece</i> sp. PCC 7418	2503638004

Table S5. Cont.

Genome	IMG gene ID
<i>Halotheca</i> sp. PCC 7418	2503636383
<i>Halotheca</i> sp. PCC 7418	2503637161
<i>Halotheca</i> sp. PCC 7418	2503637027
<i>Leptolyngbya</i> sp. JSC-1	2558012160
<i>Leptolyngbya</i> sp. JSC-1	2022832560
<i>Leptolyngbya</i> sp. JSC-1	2022832050
<i>Leptolyngbya</i> sp. JSC-1	2558010037
<i>Leptolyngbya</i> sp. JSC-1	2022830305
<i>Leptolyngbya</i> sp. JSC-1	2558011677
<i>Leptolyngbya</i> sp. JSC-1	2022828647
<i>Leptolyngbya</i> sp. JSC-1	2022832519
<i>Leptolyngbya</i> sp. JSC-1	2558008476
<i>Leptolyngbya</i> sp. JSC-1	2558012123
<i>Leptolyngbya</i> sp. JSC-1	2022830295
<i>Leptolyngbya</i> sp. JSC-1	2558011499
<i>Leptolyngbya</i> sp. JSC-1	2022830673
<i>Leptolyngbya</i> sp. JSC-1	2022831998
<i>Leptolyngbya</i> sp. JSC-1	2022833132
<i>Leptolyngbya</i> sp. JSC-1	2558009898
<i>Leptolyngbya</i> sp. JSC-1	2558010027
<i>Leptolyngbya</i> sp. JSC-1	2022831861
<i>Leptolyngbya</i> sp. JSC-1	2558009424
<i>Leptolyngbya</i> sp. JSC-1	2558010059
<i>Leptolyngbya</i> sp. JSC-1	2022830162
<i>Leptolyngbya</i> sp. JSC-1	2022832549
<i>Leptolyngbya</i> sp. JSC-1	2558010385
<i>Leptolyngbya</i> sp. JSC-1	2558011631
<i>Leptolyngbya</i> sp. JSC-1	2558013498
<i>Leptolyngbya</i> sp. JSC-1	2022830327
<i>Leptolyngbya</i> sp. JSC-1	2022833980
<i>Leptolyngbya</i> sp. JSC-1	2558009270
<i>Leptolyngbya</i> sp. JSC-1	2558012150
<i>Leptolyngbya</i> sp. JSC-1	2022829490
<i>Leptolyngbya</i> sp. JSC-1	2022829653
<i>Leptolyngbya</i> sp. JSC-1	2022830116
<i>Leptolyngbya</i> sp. PCC 7376	2503886875
<i>Leptolyngbya</i> sp. PCC 7376	2503888574
<i>Leptolyngbya</i> sp. PCC 7376	2503889765
<i>Leptolyngbya</i> sp. PCC 7376	2503889165
<i>Leptolyngbya</i> sp. PCC 7376	2503886434
<i>Leptolyngbya</i> sp. PCC 7376	2503888776
<i>Leptolyngbya</i> sp. PCC 7376	2503889931
<i>Leptolyngbya</i> sp. PCC 7376	2503889067
<i>Leptolyngbya</i> sp. PCC 7376	2503887323
<i>Leptolyngbya</i> sp. PCC 7376	2503889135

Table S5. Cont.

Genome	IMG gene ID
<i>Leptolyngbya</i> sp. PCC 7376	2503886334
<i>Leptolyngbya</i> sp. PCC 7376	2503887180
<i>Leptolyngbya</i> sp. PCC 7376	2503889068
<i>Leptolyngbya</i> sp. PCC 7376	2503888806
<i>Leptolyngbya</i> sp. PCC 7376	2503889164
<i>Leptolyngbya</i> sp. PCC 7376	2503888957
<i>Leptolyngbya</i> sp. PCC 7376	2503890009
<i>Leptolyngbya</i> sp. PCC 7376	2503890131
<i>Leptolyngbya</i> sp. PCC 7376	2503887578
<i>Leptolyngbya</i> sp. PCC 7376	2503885901
<i>Leptolyngbya</i> sp. PCC 7376	2503887017
<i>Leptolyngbya</i> sp. PCC 7376	2503888559
<i>Leptolyngbya</i> sp. PCC 7376	2503889871
<i>Leptolyngbya</i> sp. PCC 7376	2503887357
<i>Leptolyngbya</i> sp. PCC 7376	2503888794
<i>Leptolyngbya</i> sp. PCC 7376	2503885864
<i>Leptolyngbya</i> sp. PCC 7376	2503885881
<i>Leptolyngbya</i> sp. PCC 7376	2503886588
<i>Leptolyngbya</i> sp. PCC 7376	2503886782
<i>Leptolyngbya</i> sp. PCC 7376	2503885986
<i>Leptolyngbya</i> sp. PCC 7376	2503888868
<i>Leptolyngbya</i> sp. PCC 7376	2503889683
<i>Leptolyngbya</i> sp. PCC 7376	2503889868
<i>Leptolyngbya</i> sp. PCC 7376	2503888500
<i>Microcoleus</i> sp. PCC 7113	2509433470
<i>Microcoleus</i> sp. PCC 7113	2509436418
<i>Microcoleus</i> sp. PCC 7113	2509433405
<i>Microcoleus</i> sp. PCC 7113	2509432828
<i>Microcoleus</i> sp. PCC 7113	2509435395
<i>Microcoleus</i> sp. PCC 7113	2509435870
<i>Microcoleus</i> sp. PCC 7113	2509437696
<i>Microcoleus</i> sp. PCC 7113	2509435731
<i>Microcoleus</i> sp. PCC 7113	2509432071
<i>Microcoleus</i> sp. PCC 7113	2509438080
<i>Microcoleus</i> sp. PCC 7113	2509432618
<i>Microcoleus</i> sp. PCC 7113	2509436624
<i>Microcystis aeruginosa</i> NIES-843	641535281
<i>Microcystis aeruginosa</i> NIES-843	641537852
<i>Nodularia spumigena</i> CCY9414	2563160025
<i>Nodularia spumigena</i> CCY9414	2563163610
<i>Nodularia spumigena</i> CCY9414	2563162326
<i>Nodularia spumigena</i> CCY9414	2563163456
<i>Nostoc azollae</i> 0708	648049119
<i>Nostoc azollae</i> 0708	648052171
<i>Nostoc azollae</i> 0708	648942581

Table S5. Cont.

Genome	IMG gene ID
<i>Nostoc azollae</i> 0708	648942986
<i>Nostoc azollae</i> 0708	648049662
<i>Nostoc punctiforme</i> PCC 73102	642604161
<i>Nostoc punctiforme</i> PCC 73102	642602914
<i>Nostoc punctiforme</i> PCC 73102	642603479
<i>Nostoc punctiforme</i> PCC 73102	642603243
<i>Nostoc punctiforme</i> PCC 73102	642604390
<i>Nostoc punctiforme</i> PCC 73102	642604219
<i>Nostoc punctiforme</i> PCC 73102	642599512
<i>Nostoc punctiforme</i> PCC 73102	642600334
<i>Nostoc punctiforme</i> PCC 73102	642603152
<i>Nostoc punctiforme</i> PCC 73102	642603988
<i>Nostoc punctiforme</i> PCC 73102	642600749
<i>Nostoc punctiforme</i> PCC 73102	642602945
<i>Nostoc punctiforme</i> PCC 73102	642600794
<i>Nostoc punctiforme</i> PCC 73102	642604683
<i>Nostoc punctiforme</i> PCC 73102	642605738
<i>Nostoc punctiforme</i> PCC 73102	642601490
<i>Nostoc punctiforme</i> PCC 73102	642599863
<i>Nostoc punctiforme</i> PCC 73102	642602658
<i>Nostoc punctiforme</i> PCC 73102	642604290
<i>Nostoc punctiforme</i> PCC 73102	642602549
<i>Nostoc punctiforme</i> PCC 73102	642605742
<i>Nostoc</i> sp. PCC 7107	2503739740
<i>Nostoc</i> sp. PCC 7107	2503740511
<i>Nostoc</i> sp. PCC 7107	2503739403
<i>Nostoc</i> sp. PCC 7107	2503740443
<i>Nostoc</i> sp. PCC 7107	2503743596
<i>Nostoc</i> sp. PCC 7107	2503742925
<i>Nostoc</i> sp. PCC 7107	2503741796
<i>Nostoc</i> sp. PCC 7107	2503743474
<i>Nostoc</i> sp. PCC 7107	2503738702
<i>Nostoc</i> sp. PCC 7107	2503740711
<i>Nostoc</i> sp. PCC 7107	2503742783
<i>Nostoc</i> sp. PCC 7107	2503743519
<i>Nostoc</i> sp. PCC 7107	2503738937
<i>Nostoc</i> sp. PCC 7107	2503742427
<i>Nostoc</i> sp. PCC 7107	2503741395
<i>Nostoc</i> sp. PCC 7107	2503742909
<i>Nostoc</i> sp. PCC 7107	2503743362
<i>Nostoc</i> sp. PCC 7120	637231585
<i>Nostoc</i> sp. PCC 7120	637233894
<i>Nostoc</i> sp. PCC 7120	637234624
<i>Nostoc</i> sp. PCC 7120	637235300
<i>Nostoc</i> sp. PCC 7120	637235301

Table S5. Cont.

Genome	IMG gene ID
<i>Nostoc</i> sp. PCC 7120	637231377
<i>Nostoc</i> sp. PCC 7120	637235583
<i>Nostoc</i> sp. PCC 7120	637233258
<i>Nostoc</i> sp. PCC 7120	637230577
<i>Nostoc</i> sp. PCC 7120	637231541
<i>Nostoc</i> sp. PCC 7120	637232797
<i>Nostoc</i> sp. PCC 7120	637233557
<i>Nostoc</i> sp. PCC 7120	637232686
<i>Nostoc</i> sp. PCC 7120	637233990
<i>Nostoc</i> sp. PCC 7524	2509808311
<i>Nostoc</i> sp. PCC 7524	2509812720
<i>Nostoc</i> sp. PCC 7524	2509810064
<i>Nostoc</i> sp. PCC 7524	2509809979
<i>Nostoc</i> sp. PCC 7524	2509809324
<i>Nostoc</i> sp. PCC 7524	2509811677
<i>Nostoc</i> sp. PCC 7524	2509810204
<i>Nostoc</i> sp. PCC 7524	2509808270
<i>Nostoc</i> sp. PCC 7524	2509812747
<i>Nostoc</i> sp. PCC 7524	2509810578
<i>Nostoc</i> sp. PCC 7524	2509811269
<i>Oscillatoria acuminata</i> PCC 6304	2509423158
<i>Oscillatoria acuminata</i> PCC 6304	2509421536
<i>Oscillatoria acuminata</i> PCC 6304	2509421414
<i>Oscillatoria acuminata</i> PCC 6304	2509423345
<i>Oscillatoria acuminata</i> PCC 6304	2509422321
<i>Oscillatoria acuminata</i> PCC 6304	2509421069
<i>Oscillatoria acuminata</i> PCC 6304	2509422053
<i>Oscillatoria acuminata</i> PCC 6304	2509422607
<i>Oscillatoria acuminata</i> PCC 6304	2509422718
<i>Oscillatoria acuminata</i> PCC 6304	2509424907
<i>Oscillatoria acuminata</i> PCC 6304	2509421184
<i>Oscillatoria acuminata</i> PCC 6304	2509422350
<i>Oscillatoria acuminata</i> PCC 6304	2509419483
<i>Oscillatoria acuminata</i> PCC 6304	2509420595
<i>Oscillatoria acuminata</i> PCC 6304	2509423135
<i>Oscillatoria acuminata</i> PCC 6304	2509420986
<i>Oscillatoria acuminata</i> PCC 6304	2509421634
<i>Oscillatoria acuminata</i> PCC 6304	2509421803
<i>Oscillatoria acuminata</i> PCC 6304	2509423451
<i>Oscillatoria acuminata</i> PCC 6304	2509423746
<i>Oscillatoria acuminata</i> PCC 6304	2509422228
<i>Oscillatoria acuminata</i> PCC 6304	2509422628
<i>Oscillatoria acuminata</i> PCC 6304	2509421735
<i>Oscillatoria acuminata</i> PCC 6304	2509422955
<i>Oscillatoria acuminata</i> PCC 6304	2509424181

Table S5. Cont.

Genome	IMG gene ID
<i>Oscillatoria acuminata</i> PCC 6304	2509420062
<i>Oscillatoria acuminata</i> PCC 6304	2509422177
<i>Oscillatoria acuminata</i> PCC 6304	2509423314
<i>Oscillatoria acuminata</i> PCC 6304	2509424752
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504087440
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504091290
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504087514
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504088046
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504088797
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504088856
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504091344
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504087832
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504090209
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504092138
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504092321
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504092802
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504091673
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504088508
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504090399
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504091137
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504087162
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504087694
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504087922
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504089233
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504089538
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504090910
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504091016
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504091765
<i>Pleurocapsa</i> sp. PCC 7327	2509573713
<i>Pleurocapsa</i> sp. PCC 7327	2509573853
<i>Pleurocapsa</i> sp. PCC 7327	2509574415
<i>Pleurocapsa</i> sp. PCC 7327	2509574984
<i>Pleurocapsa</i> sp. PCC 7327	2509575407
<i>Pleurocapsa</i> sp. PCC 7327	2509575653
<i>Pleurocapsa</i> sp. PCC 7327	2509572085
<i>Pleurocapsa</i> sp. PCC 7327	2509572671
<i>Pleurocapsa</i> sp. PCC 7327	2509574993
<i>Pleurocapsa</i> sp. PCC 7327	2509573478
<i>Pleurocapsa</i> sp. PCC 7327	2509574412
<i>Pleurocapsa</i> sp. PCC 7327	2509573552
<i>Pleurocapsa</i> sp. PCC 7327	2509574054
<i>Pleurocapsa</i> sp. PCC 7327	2509575782
<i>Pleurocapsa</i> sp. PCC 7327	2509576405
<i>Pleurocapsa</i> sp. PCC 7327	2509574421
<i>Pleurocapsa</i> sp. PCC 7327	2509574416

Table S5. Cont.

Genome	IMG gene ID
<i>Pleurocapsa</i> sp. PCC 7327	2509575651
<i>Pleurocapsa</i> sp. PCC 7327	2509575652
<i>Pseudanabaena</i> sp. PCC 7367	2504678124
<i>Pseudanabaena</i> sp. PCC 7367	2504679936
<i>Pseudanabaena</i> sp. PCC 7367	2504679706
<i>Pseudanabaena</i> sp. PCC 7367	2504679236
<i>Pseudanabaena</i> sp. PCC 7367	2504681104
<i>Pseudanabaena</i> sp. PCC 7367	2504681247
<i>Pseudanabaena</i> sp. PCC 7367	2504681351
<i>Pseudanabaena</i> sp. PCC 7367	2504678537
<i>Pseudanabaena</i> sp. PCC 7367	2504680016
<i>Pseudanabaena</i> sp. PCC 7367	2504680984
<i>Pseudanabaena</i> sp. PCC 7367	2504680004
<i>Pseudanabaena</i> sp. PCC 7367	2504681218
<i>Pseudanabaena</i> sp. PCC 7367	2504680364
<i>Pseudanabaena</i> sp. PCC 7367	2504681853
<i>Rivularia</i> sp. PCC 7116	2510091024
<i>Rivularia</i> sp. PCC 7116	2510088438
<i>Rivularia</i> sp. PCC 7116	2510090595
<i>Rivularia</i> sp. PCC 7116	2510086580
<i>Rivularia</i> sp. PCC 7116	2510087951
<i>Rivularia</i> sp. PCC 7116	2510090974
<i>Rivularia</i> sp. PCC 7116	2510085299
<i>Rivularia</i> sp. PCC 7116	2510087207
<i>Rivularia</i> sp. PCC 7116	2510090902
<i>Rivularia</i> sp. PCC 7116	2510086117
<i>Rivularia</i> sp. PCC 7116	2510086548
<i>Rivularia</i> sp. PCC 7116	2510089863
<i>Stanieria cyanosphaera</i> PCC 7437	2503798491
<i>Stanieria cyanosphaera</i> PCC 7437	2503799526
<i>Stanieria cyanosphaera</i> PCC 7437	2503799331
<i>Stanieria cyanosphaera</i> PCC 7437	2503802102
<i>Stanieria cyanosphaera</i> PCC 7437	2503798113
<i>Stanieria cyanosphaera</i> PCC 7437	2503799097
<i>Stanieria cyanosphaera</i> PCC 7437	2503799211
<i>Stanieria cyanosphaera</i> PCC 7437	2503799352
<i>Stanieria cyanosphaera</i> PCC 7437	2503801808
<i>Stanieria cyanosphaera</i> PCC 7437	2503802382
<i>Stanieria cyanosphaera</i> PCC 7437	2503799675
<i>Stanieria cyanosphaera</i> PCC 7437	2503798818
<i>Stanieria cyanosphaera</i> PCC 7437	2503799589
<i>Stanieria cyanosphaera</i> PCC 7437	2503800105
<i>Stanieria cyanosphaera</i> PCC 7437	2503798098
<i>Stanieria cyanosphaera</i> PCC 7437	2503798580
<i>Stanieria cyanosphaera</i> PCC 7437	2503799555

Table S5. Cont.

Genome	IMG gene ID
<i>Stanieria cyanosphaera</i> PCC 7437	2503800170
<i>Stanieria cyanosphaera</i> PCC 7437	2503798355
<i>Stanieria cyanosphaera</i> PCC 7437	2503802414
<i>Stanieria cyanosphaera</i> PCC 7437	2503800280
<i>Stanieria cyanosphaera</i> PCC 7437	2503800785
<i>Synechococcus elongatus</i> PCC 6301	637617253
<i>Synechococcus elongatus</i> PCC 6301	637617266
<i>Synechococcus elongatus</i> PCC 6301	637617973
<i>Synechococcus elongatus</i> PCC 6301	637615815
<i>Synechococcus elongatus</i> PCC 6301	637616689
<i>Synechococcus elongatus</i> PCC 6301	637618066
<i>Synechococcus elongatus</i> PCC 6301	637615898
<i>Synechococcus elongatus</i> PCC 6301	637617254
<i>Synechococcus elongatus</i> PCC 6301	637616372
<i>Synechococcus elongatus</i> PCC 6301	637617020
<i>Synechococcus elongatus</i> PCC 6301	637615843
<i>Synechococcus elongatus</i> PCC 6301	637616988
<i>Synechococcus elongatus</i> PCC 6301	637618134
<i>Synechococcus elongatus</i> PCC 6301	637617686
<i>Synechococcus elongatus</i> PCC 6301	637617926
<i>Synechococcus elongatus</i> PCC 6301	637617593
<i>Synechococcus elongatus</i> PCC 6301	637616036
<i>Synechococcus elongatus</i> PCC 7942	637800968
<i>Synechococcus elongatus</i> PCC 7942	637800985
<i>Synechococcus elongatus</i> PCC 7942	637799814
<i>Synechococcus elongatus</i> PCC 7942	637800252
<i>Synechococcus elongatus</i> PCC 7942	637798897
<i>Synechococcus elongatus</i> PCC 7942	637800154
<i>Synechococcus elongatus</i> PCC 7942	637799728
<i>Synechococcus elongatus</i> PCC 7942	637799233
<i>Synechococcus elongatus</i> PCC 7942	637799786
<i>Synechococcus elongatus</i> PCC 7942	637800300
<i>Synechococcus elongatus</i> PCC 7942	637800637
<i>Synechococcus elongatus</i> PCC 7942	637798594
<i>Synechococcus elongatus</i> PCC 7942	637800541
<i>Synechococcus elongatus</i> PCC 7942	637799584
<i>Synechococcus elongatus</i> PCC 7942	637800984
<i>Synechococcus elongatus</i> PCC 7942	637798557
<i>Synechococcus elongatus</i> PCC 7942	637800080
<i>Synechococcus</i> sp. CC9311	638115102
<i>Synechococcus</i> sp. CC9311	638116407
<i>Synechococcus</i> sp. CC9311	638115100
<i>Synechococcus</i> sp. CC9311	638116258
<i>Synechococcus</i> sp. JA-2-3B'a(2-13)	637876560
<i>Synechococcus</i> sp. JA-2-3B'a(2-13)	637874759

Table S5. Cont.

Genome	IMG gene ID
<i>Synechococcus</i> sp. JA-2-3B'a(2-13)	637875410
<i>Synechococcus</i> sp. JA-2-3B'a(2-13)	637876674
<i>Synechococcus</i> sp. JA-3-3Ab	637872074
<i>Synechococcus</i> sp. JA-3-3Ab	637874240
<i>Synechococcus</i> sp. JA-3-3Ab	637874137
<i>Synechococcus</i> sp. KORDI-52 (genome sequencing)	2507314789
<i>Synechococcus</i> sp. KORDI-52 (genome sequencing)	2507314794
<i>Synechococcus</i> sp. KORDI-52 (genome sequencing)	2507316388
<i>Synechococcus</i> sp. KORDI-52 (genome sequencing)	2507314808
<i>Synechococcus</i> sp. KORDI-52 (genome sequencing)	2507316266
<i>Synechococcus</i> sp. KORDI-52 (genome sequencing)	2507316272
<i>Synechococcus</i> sp. KORDI-52 (genome sequencing)	2507314812
<i>Synechococcus</i> sp. KORDI-52 (genome sequencing)	2507314807
<i>Synechococcus</i> sp. KORDI-52 (genome sequencing)	2507314786
<i>Synechococcus</i> sp. PCC 6312	2509429942
<i>Synechococcus</i> sp. PCC 6312	2509430206
<i>Synechococcus</i> sp. PCC 6312	2509430045
<i>Synechococcus</i> sp. PCC 6312	2509430535
<i>Synechococcus</i> sp. PCC 6312	2509430960
<i>Synechococcus</i> sp. PCC 6312	2509429323
<i>Synechococcus</i> sp. PCC 6312	2509429850
<i>Synechococcus</i> sp. PCC 6312	2509431681
<i>Synechococcus</i> sp. PCC 6312	2509431771
<i>Synechococcus</i> sp. PCC 6312	2509428174
<i>Synechococcus</i> sp. PCC 6312	2509428507
<i>Synechococcus</i> sp. PCC 6312	2509431342
<i>Synechococcus</i> sp. PCC 6312	2509428720
<i>Synechococcus</i> sp. PCC 6312	2509429573
<i>Synechococcus</i> sp. PCC 7002	641610858
<i>Synechococcus</i> sp. PCC 7002	641612872
<i>Synechococcus</i> sp. PCC 7002	641609999
<i>Synechococcus</i> sp. PCC 7002	641612597
<i>Synechococcus</i> sp. PCC 7002	641611869
<i>Synechococcus</i> sp. PCC 7002	641612487
<i>Synechococcus</i> sp. PCC 7002	641612471
<i>Synechococcus</i> sp. PCC 7002	641612374
<i>Synechococcus</i> sp. PCC 7002	641610949
<i>Synechococcus</i> sp. PCC 7002	641611509
<i>Synechococcus</i> sp. PCC 7002	641612878
<i>Synechococcus</i> sp. PCC 7002	641612825
<i>Synechococcus</i> sp. PCC 7002	641611365
<i>Synechococcus</i> sp. PCC 7502	2508690306
<i>Synechococcus</i> sp. PCC 7502	2508689568
<i>Synechococcus</i> sp. PCC 7502	2508687324
<i>Synechococcus</i> sp. PCC 7502	2508687765

Table S5. Cont.

Genome	IMG gene ID
<i>Synechococcus</i> sp. PCC 7502	2508689395
<i>Synechococcus</i> sp. PCC 7502	2508689374
<i>Synechococcus</i> sp. PCC 7502	2508687563
<i>Synechococcus</i> sp. PCC 7502	2508690274
<i>Synechococcus</i> sp. PCC 7502	2508686827
<i>Synechococcus</i> sp. PCC 7502	2508688001
<i>Synechococcus</i> sp. PCC 7502	2508687130
<i>Synechococcus</i> sp. PCC 7502	2508687156
<i>Synechococcus</i> sp. PCC 7502	2508688832
<i>Synechocystis</i> sp. GT-S, PCC 6803	651077978
<i>Synechocystis</i> sp. GT-S, PCC 6803	651079677
<i>Synechocystis</i> sp. GT-S, PCC 6803	651080314
<i>Synechocystis</i> sp. GT-S, PCC 6803	651078573
<i>Synechocystis</i> sp. GT-S, PCC 6803	651080526
<i>Synechocystis</i> sp. GT-S, PCC 6803	651077915
<i>Synechocystis</i> sp. GT-S, PCC 6803	651078923
<i>Synechocystis</i> sp. GT-S, PCC 6803	651079357
<i>Synechocystis</i> sp. GT-S, PCC 6803	651079871
<i>Synechocystis</i> sp. GT-S, PCC 6803	651077957
<i>Synechocystis</i> sp. GT-S, PCC 6803	651078130
<i>Synechocystis</i> sp. GT-S, PCC 6803	651080582
<i>Synechocystis</i> sp. GT-S, PCC 6803	651077913
<i>Synechocystis</i> sp. GT-S, PCC 6803	651078012
<i>Synechocystis</i> sp. GT-S, PCC 6803	651078188
<i>Synechocystis</i> sp. GT-S, PCC 6803	651078214
<i>Synechocystis</i> sp. GT-S, PCC 6803	651080339
<i>Synechocystis</i> sp. GT-S, PCC 6803	651080472
<i>Synechocystis</i> sp. GT-S, PCC 6803	651079461
<i>Synechocystis</i> sp. GT-S, PCC 6803	651080845
<i>Synechocystis</i> sp. GT-S, PCC 6803	651077914
<i>Synechocystis</i> sp. GT-S, PCC 6803	651078460
<i>Synechocystis</i> sp. PCC 6803	2562385507
<i>Synechocystis</i> sp. PCC 6803	637009678
<i>Synechocystis</i> sp. PCC 6803	2562387201
<i>Synechocystis</i> sp. PCC 6803	637011377
<i>Synechocystis</i> sp. PCC 6803	637012015
<i>Synechocystis</i> sp. PCC 6803	2562387832
<i>Synechocystis</i> sp. PCC 6803	2562388044
<i>Synechocystis</i> sp. PCC 6803	2562386100
<i>Synechocystis</i> sp. PCC 6803	637010273
<i>Synechocystis</i> sp. PCC 6803	637012227
<i>Synechocystis</i> sp. PCC 6803	637009613
<i>Synechocystis</i> sp. PCC 6803	637009914
<i>Synechocystis</i> sp. PCC 6803	2562385988
<i>Synechocystis</i> sp. PCC 6803	2562387990

Table S5. Cont.

Genome	IMG gene ID
<i>Synechocystis</i> sp. PCC 6803	637009614
<i>Synechocystis</i> sp. PCC 6803	637009712
<i>Synechocystis</i> sp. PCC 6803	637010160
<i>Synechocystis</i> sp. PCC 6803	2562385444
<i>Synechocystis</i> sp. PCC 6803	637009657
<i>Synechocystis</i> sp. PCC 6803	637009830
<i>Synechocystis</i> sp. PCC 6803	637012283
<i>Synechocystis</i> sp. PCC 6803	2562385718
<i>Synechocystis</i> sp. PCC 6803	2562388364
<i>Synechocystis</i> sp. PCC 6803	637011163
<i>Synechocystis</i> sp. PCC 6803	637012040
<i>Synechocystis</i> sp. PCC 6803	2562385443
<i>Synechocystis</i> sp. PCC 6803	2562385486
<i>Synechocystis</i> sp. PCC 6803	2562385541
<i>Synechocystis</i> sp. PCC 6803	2562385744
<i>Synechocystis</i> sp. PCC 6803	2562387857
<i>Synechocystis</i> sp. PCC 6803	637012548
<i>Synechocystis</i> sp. PCC 6803	2562385659
<i>Synechocystis</i> sp. PCC 6803	637011059
<i>Synechocystis</i> sp. PCC 6803	2562386451
<i>Synechocystis</i> sp. PCC 6803	2562386884
<i>Synechocystis</i> sp. PCC 6803	2562386988
<i>Synechocystis</i> sp. PCC 6803	637009615
<i>Synechocystis</i> sp. PCC 6803	637009888
<i>Synechocystis</i> sp. PCC 6803	637011571
<i>Synechocystis</i> sp. PCC 6803	637012173
<i>Synechocystis</i> sp. PCC 6803	2562385442
<i>Synechocystis</i> sp. PCC 6803	2562387394
<i>Synechocystis</i> sp. PCC 6803	637010625
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515002522
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515004307
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515004972
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515002559
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515002768
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515003023
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515005132
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515002456
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515002678
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515003511
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515004080
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515005247
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515002457
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515002742
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515004997
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515005530

Table S5. Cont.

Genome	IMG gene ID
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515002458
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515002500
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514152573
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514154270
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514154906
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514153167
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514155118
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514154464
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514155064
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514152509
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514152552
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514152510
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514153517
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514155174
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514152783
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514155437
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514152607
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514153951
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514154931
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514152725
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514152809
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514149356
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514151689
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514149950
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514151901
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514149293
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514149390
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514151957
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514149291
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514150838
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514149837
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514149335
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514149566
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514151247
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514152220
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514149292
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514149508
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514150300
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514150734
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514151714
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514149592
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524497922
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524499619
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524500256
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524498516

Table S5. Cont.

Genome	IMG gene ID
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524500468
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524497857
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524497901
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524499404
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524497859
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524499813
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524497858
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524498866
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524497956
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524498132
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524500787
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524499300
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524500414
<i>Thermosynechococcus elongatus</i> BP-1	637313667
<i>Thermosynechococcus elongatus</i> BP-1	637313778
<i>Thermosynechococcus elongatus</i> BP-1	637314632
<i>Thermosynechococcus elongatus</i> BP-1	637313831
<i>Thermosynechococcus elongatus</i> BP-1	637312979
<i>Thermosynechococcus elongatus</i> BP-1	637313541
<i>Thermosynechococcus elongatus</i> BP-1	637313528
<i>Thermosynechococcus elongatus</i> BP-1	637314490
<i>Thermosynechococcus elongatus</i> BP-1	637313241
<i>Thermosynechococcus elongatus</i> BP-1	637314239
<i>Trichodesmium erythraeum</i> IMS101	638109791
<i>Trichodesmium erythraeum</i> IMS101	638109127
<i>Trichodesmium erythraeum</i> IMS101	638105964
<i>Trichodesmium erythraeum</i> IMS101	638107580

Table S6. Genomes found which encode for diguanylate phosphodiesterase domain, pfam00563.

Genome	IMG gene ID
<i>Acaryochloris marina</i> MBIC11017	641251187
<i>Acaryochloris marina</i> MBIC11017	641254192
<i>Acaryochloris marina</i> MBIC11017	641249639
<i>Acaryochloris marina</i> MBIC11017	641250520
<i>Acaryochloris marina</i> MBIC11017	641251773
<i>Acaryochloris marina</i> MBIC11017	641252372
<i>Acaryochloris marina</i> MBIC11017	641253154
<i>Acaryochloris marina</i> MBIC11017	641254301
<i>Acaryochloris marina</i> MBIC11017	641249663
<i>Acaryochloris marina</i> MBIC11017	641249344
<i>Acaryochloris marina</i> MBIC11017	641252416
<i>Acaryochloris marina</i> MBIC11017	641253018
<i>Acaryochloris marina</i> MBIC11017	641254056
<i>Acaryochloris marina</i> MBIC11017	641254693

Table S6. Cont.

Genome	IMG gene ID
<i>Acaryochloris marina</i> MBIC11017	641254921
<i>Acaryochloris marina</i> MBIC11017	641249143
<i>Acaryochloris marina</i> MBIC11017	641254163
<i>Acaryochloris marina</i> MBIC11017	641254228
<i>Acaryochloris marina</i> MBIC11017	641254638
<i>Acaryochloris marina</i> MBIC11017	641249828
<i>Acaryochloris marina</i> MBIC11017	641251401
<i>Acaryochloris marina</i> MBIC11017	641249696
<i>Acaryochloris marina</i> MBIC11017	641250827
<i>Acaryochloris marina</i> MBIC11017	641251950
<i>Acaryochloris marina</i> MBIC11017	641252085
<i>Acaryochloris marina</i> MBIC11017	641252541
<i>Acaryochloris marina</i> MBIC11017	641250370
<i>Acaryochloris marina</i> MBIC11017	641251034
<i>Acaryochloris marina</i> MBIC11017	641252957
<i>Acaryochloris marina</i> MBIC11017	641254023
<i>Acaryochloris marina</i> MBIC11017	641254057
<i>Acaryochloris marina</i> MBIC11017	641254285
<i>Anabaena cylindrica</i> PCC 7122	2504133367
<i>Anabaena cylindrica</i> PCC 7122	2504131261
<i>Anabaena cylindrica</i> PCC 7122	2504132499
<i>Anabaena cylindrica</i> PCC 7122	2504134554
<i>Anabaena cylindrica</i> PCC 7122	2504129857
<i>Anabaena cylindrica</i> PCC 7122	2504132210
<i>Anabaena cylindrica</i> PCC 7122	2504134822
<i>Anabaena cylindrica</i> PCC 7122	2504132666
<i>Anabaena cylindrica</i> PCC 7122	2504134984
<i>Anabaena</i> sp. 90	2562230961
<i>Anabaena</i> sp. 90	2562229559
<i>Anabaena variabilis</i> ATCC 29413	646566157
<i>Anabaena variabilis</i> ATCC 29413	646565600
<i>Anabaena variabilis</i> ATCC 29413	646568206
<i>Anabaena variabilis</i> ATCC 29413	646569371
<i>Anabaena variabilis</i> ATCC 29413	646566313
<i>Anabaena variabilis</i> ATCC 29413	646566126
<i>Anabaena variabilis</i> ATCC 29413	646569930
<i>Arthrospira platensis</i> NIES-39	650385927
<i>Arthrospira platensis</i> NIES-39	650389159
<i>Arthrospira platensis</i> NIES-39	650388520
<i>Arthrospira platensis</i> NIES-39	650389574
<i>Arthrospira platensis</i> NIES-39	650387653
<i>Arthrospira platensis</i> NIES-39	650384685
<i>Arthrospira platensis</i> NIES-39	650384400
<i>Arthrospira platensis</i> NIES-39	650386115
<i>Arthrospira platensis</i> NIES-39	650387366

Table S6. Cont.

Genome	IMG gene ID
<i>Arthrospira platensis</i> NIES-39	650385986
<i>Arthrospira platensis</i> NIES-39	650389575
<i>Arthrospira platensis</i> NIES-39	650386047
<i>Arthrospira platensis</i> NIES-39	650389735
<i>Arthrospira platensis</i> NIES-39	650388926
<i>Arthrospira platensis</i> NIES-39	650384007
<i>Arthrospira platensis</i> NIES-39	650387673
<i>Calothrix</i> sp. PCC 6303	2504098565
<i>Calothrix</i> sp. PCC 6303	2504097083
<i>Calothrix</i> sp. PCC 6303	2504098610
<i>Calothrix</i> sp. PCC 7507	2505803444
<i>Calothrix</i> sp. PCC 7507	2505801633
<i>Calothrix</i> sp. PCC 7507	2505803596
<i>Calothrix</i> sp. PCC 7507	2505798920
<i>Calothrix</i> sp. PCC 7507	2505802528
<i>Chamaesiphon minutus</i> PCC 6605	2510441314
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503611873
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503614492
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503614368
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503612951
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503615374
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503612146
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503614623
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503611246
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503611617
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503614375
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503611882
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503615423
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503615799
<i>Crinalium epipsammum</i> PCC 9333	2504682680
<i>Crinalium epipsammum</i> PCC 9333	2504683890
<i>Crinalium epipsammum</i> PCC 9333	2504684153
<i>Crinalium epipsammum</i> PCC 9333	2504682468
<i>Crinalium epipsammum</i> PCC 9333	2504686146
<i>Crinalium epipsammum</i> PCC 9333	2504685608
<i>Crinalium epipsammum</i> PCC 9333	2504686164
<i>Crinalium epipsammum</i> PCC 9333	2504686461
<i>Crinalium epipsammum</i> PCC 9333	2504686791
<i>Cyanobacterium aponinum</i> PCC 10605	2503746111
<i>Cyanobacterium aponinum</i> PCC 10605	2503746742
<i>Cyanobacterium aponinum</i> PCC 10605	2503744393
<i>Cyanobacterium aponinum</i> PCC 10605	2503744712
<i>Cyanobacterium aponinum</i> PCC 10605	2503745531
<i>Cyanobacterium aponinum</i> PCC 10605	2503745041
<i>Cyanobacterium aponinum</i> PCC 10605	2503744837

Table S6. Cont.

Genome	IMG gene ID
<i>Cyanobacterium aponinum</i> PCC 10605	2503745092
<i>Cyanobacterium aponinum</i> PCC 10605	2503745998
<i>Cyanobacterium aponinum</i> PCC 10605	2503746171
<i>Cyanobacterium aponinum</i> PCC 10605	2503745999
<i>Cyanobacterium aponinum</i> PCC 10605	2503746265
<i>Cyanobacterium aponinum</i> PCC 10605	2503745415
<i>Cyanobacterium aponinum</i> PCC 10605	2503745778
<i>Cyanobacterium aponinum</i> PCC 10605	2503747456
<i>Cyanobacterium aponinum</i> PCC 10605	2503744675
<i>Cyanobacterium aponinum</i> PCC 10605	2503744714
<i>Cyanobacterium aponinum</i> PCC 10605	2503746009
<i>Cyanobacterium stanieri</i> PCC 7202	2503368192
<i>Cyanobacterium stanieri</i> PCC 7202	2503365956
<i>Cyanobacterium stanieri</i> PCC 7202	2503365629
<i>Cyanobacterium stanieri</i> PCC 7202	2503365800
<i>Cyanobacterium stanieri</i> PCC 7202	2503366914
<i>Cyanobacterium stanieri</i> PCC 7202	2503365578
<i>Cyanobium gracile</i> PCC 6307	2508552856
<i>Cyanobium gracile</i> PCC 6307	2508550644
<i>Cyanobium gracile</i> PCC 6307	2508552671
<i>Cyanobium gracile</i> PCC 6307	2508553414
<i>Cyanobium gracile</i> PCC 6307	2508553489
<i>Cyanobium gracile</i> PCC 6307	2508552954
<i>Cyanobium gracile</i> PCC 6307	2508550843
<i>Cyanobium gracile</i> PCC 6307	2508552827
<i>Cyanobium gracile</i> PCC 6307	2508553027
<i>Cyanothece</i> sp. BH68, ATCC 51142	641674837
<i>Cyanothece</i> sp. BH68, ATCC 51142	641675720
<i>Cyanothece</i> sp. BH68, ATCC 51142	641675875
<i>Cyanothece</i> sp. BH68, ATCC 51142	641675238
<i>Cyanothece</i> sp. BH68, ATCC 51142	641676520
<i>Cyanothece</i> sp. BH68, ATCC 51142	641677277
<i>Cyanothece</i> sp. BH68, ATCC 51142	641679218
<i>Cyanothece</i> sp. BH68, ATCC 51142	641675613
<i>Cyanothece</i> sp. BH68, ATCC 51142	641677276
<i>Cyanothece</i> sp. BH68, ATCC 51142	641678684
<i>Cyanothece</i> sp. BH68, ATCC 51142	641679159
<i>Cyanothece</i> sp. BH68, ATCC 51142	641675006
<i>Cyanothece</i> sp. BH68, ATCC 51142	641679162
<i>Cyanothece</i> sp. BH68, ATCC 51142	641676360
<i>Cyanothece</i> sp. BH68, ATCC 51142	641676732
<i>Cyanothece</i> sp. BH68, ATCC 51142	641678683
<i>Cyanothece</i> sp. BH68, ATCC 51142	641679160
<i>Cyanothece</i> sp. BH68, ATCC 51142	641675914
<i>Cyanothece</i> sp. BH68, ATCC 51142	641676002

Table S6. Cont.

Genome	IMG gene ID
<i>Cyanothece</i> sp. BH68, ATCC 51142	641678685
<i>Cyanothece</i> sp. BH68, ATCC 51142	641678796
<i>Cyanothece</i> sp. PCC 7424	643479874
<i>Cyanothece</i> sp. PCC 7424	643480153
<i>Cyanothece</i> sp. PCC 7424	643479352
<i>Cyanothece</i> sp. PCC 7424	643478866
<i>Cyanothece</i> sp. PCC 7424	643480280
<i>Cyanothece</i> sp. PCC 7424	643481371
<i>Cyanothece</i> sp. PCC 7424	643483085
<i>Cyanothece</i> sp. PCC 7424	643483150
<i>Cyanothece</i> sp. PCC 7424	643481370
<i>Cyanothece</i> sp. PCC 7424	643483425
<i>Cyanothece</i> sp. PCC 7424	643479553
<i>Cyanothece</i> sp. PCC 7424	643481905
<i>Cyanothece</i> sp. PCC 7424	643481372
<i>Cyanothece</i> sp. PCC 7424	643483345
<i>Cyanothece</i> sp. PCC 7425	643586525
<i>Cyanothece</i> sp. PCC 7425	643586464
<i>Cyanothece</i> sp. PCC 7425	643587995
<i>Cyanothece</i> sp. PCC 7425	643586821
<i>Cyanothece</i> sp. PCC 7425	643584392
<i>Cyanothece</i> sp. PCC 7425	643584563
<i>Cyanothece</i> sp. PCC 7425	643585326
<i>Cyanothece</i> sp. PCC 7425	643586535
<i>Cyanothece</i> sp. PCC 7425	643587935
<i>Cyanothece</i> sp. PCC 7425	643586502
<i>Cyanothece</i> sp. PCC 7425	643587896
<i>Cyanothece</i> sp. PCC 7425	643584225
<i>Cyanothece</i> sp. PCC 7425	643586637
<i>Cyanothece</i> sp. PCC 7425	643586248
<i>Cyanothece</i> sp. PCC 7822	648188671
<i>Cyanothece</i> sp. PCC 7822	648185008
<i>Cyanothece</i> sp. PCC 7822	648199713
<i>Cyanothece</i> sp. PCC 7822	648190131
<i>Cyanothece</i> sp. PCC 7822	648186025
<i>Cyanothece</i> sp. PCC 7822	648186667
<i>Cyanothece</i> sp. PCC 7822	648188274
<i>Cyanothece</i> sp. PCC 7822	648188642
<i>Cyanothece</i> sp. PCC 7822	648188716
<i>Cyanothece</i> sp. PCC 7822	648189084
<i>Cyanothece</i> sp. PCC 7822	648187559
<i>Cyanothece</i> sp. PCC 7822	648188715
<i>Cyanothece</i> sp. PCC 7822	648187464
<i>Cyanothece</i> sp. PCC 7822	648187101
<i>Cyanothece</i> sp. PCC 7822	648188956

Table S6. Cont.

Genome	IMG gene ID
<i>Cyanothece</i> sp. PCC 7822	648190120
<i>Cyanothece</i> sp. PCC 7822	648188717
<i>Cyanothece</i> sp. PCC 8801	643474895
<i>Cyanothece</i> sp. PCC 8801	643477404
<i>Cyanothece</i> sp. PCC 8801	643475695
<i>Cyanothece</i> sp. PCC 8801	643475696
<i>Cyanothece</i> sp. PCC 8801	643477329
<i>Cyanothece</i> sp. PCC 8801	643474431
<i>Cyanothece</i> sp. PCC 8801	643473142
<i>Cyanothece</i> sp. PCC 8801	643473917
<i>Cyanothece</i> sp. PCC 8801	643473943
<i>Cyanothece</i> sp. PCC 8801	643477328
<i>Cyanothece</i> sp. PCC 8801	643474429
<i>Cyanothece</i> sp. PCC 8801	643473290
<i>Cyanothece</i> sp. PCC 8802	644979841
<i>Cyanothece</i> sp. PCC 8802	644982395
<i>Cyanothece</i> sp. PCC 8802	644981382
<i>Cyanothece</i> sp. PCC 8802	644978868
<i>Cyanothece</i> sp. PCC 8802	644981381
<i>Cyanothece</i> sp. PCC 8802	644982321
<i>Cyanothece</i> sp. PCC 8802	644978217
<i>Cyanothece</i> sp. PCC 8802	644982320
<i>Cyanothece</i> sp. PCC 8802	644979381
<i>Cyanothece</i> sp. PCC 8802	644978072
<i>Cyanothece</i> sp. PCC 8802	644979383
<i>Cyanothece</i> sp. PCC 8802	644978892
<i>Cylindrospermum stagnale</i> PCC 7417	2509767610
<i>Cylindrospermum stagnale</i> PCC 7417	2509769746
<i>Cylindrospermum stagnale</i> PCC 7417	2509767408
<i>Cylindrospermum stagnale</i> PCC 7417	2509766622
<i>Dactylococcopsis salina</i> PCC 8305	2509552583
<i>Dactylococcopsis salina</i> PCC 8305	2509553447
<i>Geitlerinema</i> sp. PCC 7407	2503608921
<i>Geitlerinema</i> sp. PCC 7407	2503608006
<i>Geitlerinema</i> sp. PCC 7407	2503607123
<i>Geitlerinema</i> sp. PCC 7407	2503608725
<i>Geitlerinema</i> sp. PCC 7407	2503607848
<i>Geitlerinema</i> sp. PCC 7407	2503606885
<i>Geitlerinema</i> sp. PCC 7407	2503608506
<i>Geitlerinema</i> sp. PCC 7407	2503609632
<i>Geitlerinema</i> sp. PCC 7407	2503606049
<i>Geitlerinema</i> sp. PCC 7407	2503608874
<i>Geitlerinema</i> sp. PCC 7407	2503608881
<i>Gloeobacter kilaueensis</i> JS1	2558548715
<i>Gloeobacter kilaueensis</i> JS1	2558546182

Table S6. Cont.

Genome	IMG gene ID
<i>Gloeocapsa</i> sp. PCC 7428	2503796845
<i>Gloeocapsa</i> sp. PCC 7428	2503797182
<i>Gloeocapsa</i> sp. PCC 7428	2503792981
<i>Gloeocapsa</i> sp. PCC 7428	2503796991
<i>Gloeocapsa</i> sp. PCC 7428	2503796091
<i>Gloeocapsa</i> sp. PCC 7428	2503794591
<i>Gloeocapsa</i> sp. PCC 7428	2503795119
<i>Gloeocapsa</i> sp. PCC 7428	2503793106
<i>Gloeocapsa</i> sp. PCC 7428	2503792556
<i>Gloeocapsa</i> sp. PCC 7428	2503795415
<i>Gloeocapsa</i> sp. PCC 7428	2503793912
<i>Halotheca</i> sp. PCC 7418	2503636161
<i>Halotheca</i> sp. PCC 7418	2503635332
<i>Halotheca</i> sp. PCC 7418	2503637173
<i>Halotheca</i> sp. PCC 7418	2503635137
<i>Halotheca</i> sp. PCC 7418	2503637161
<i>Halotheca</i> sp. PCC 7418	2503636180
<i>Halotheca</i> sp. PCC 7418	2503636319
<i>Halotheca</i> sp. PCC 7418	2503635033
<i>Halotheca</i> sp. PCC 7418	2503637013
<i>Leptolyngbya</i> sp. JSC-1	2558012160
<i>Leptolyngbya</i> sp. JSC-1	2022832560
<i>Leptolyngbya</i> sp. JSC-1	2022832050
<i>Leptolyngbya</i> sp. JSC-1	2558011677
<i>Leptolyngbya</i> sp. JSC-1	2022832519
<i>Leptolyngbya</i> sp. JSC-1	2022828647
<i>Leptolyngbya</i> sp. JSC-1	2558008476
<i>Leptolyngbya</i> sp. JSC-1	2558012123
<i>Leptolyngbya</i> sp. JSC-1	2022830162
<i>Leptolyngbya</i> sp. JSC-1	2558006955
<i>Leptolyngbya</i> sp. JSC-1	2558009854
<i>Leptolyngbya</i> sp. JSC-1	2558009898
<i>Leptolyngbya</i> sp. JSC-1	2558011499
<i>Leptolyngbya</i> sp. JSC-1	2558013498
<i>Leptolyngbya</i> sp. JSC-1	2022827017
<i>Leptolyngbya</i> sp. JSC-1	2022831861
<i>Leptolyngbya</i> sp. JSC-1	2558008101
<i>Leptolyngbya</i> sp. JSC-1	2022828251
<i>Leptolyngbya</i> sp. JSC-1	2558010385
<i>Leptolyngbya</i> sp. JSC-1	2558011631
<i>Leptolyngbya</i> sp. JSC-1	2022830116
<i>Leptolyngbya</i> sp. JSC-1	2022830673
<i>Leptolyngbya</i> sp. JSC-1	2022831998
<i>Leptolyngbya</i> sp. JSC-1	2022833980
<i>Leptolyngbya</i> sp. PCC 7376	2503886802

Table S6. Cont.

Genome	IMG gene ID
<i>Leptolyngbya</i> sp. PCC 7376	2503889931
<i>Leptolyngbya</i> sp. PCC 7376	2503886434
<i>Leptolyngbya</i> sp. PCC 7376	2503886152
<i>Leptolyngbya</i> sp. PCC 7376	2503889135
<i>Leptolyngbya</i> sp. PCC 7376	2503888806
<i>Leptolyngbya</i> sp. PCC 7376	2503889164
<i>Leptolyngbya</i> sp. PCC 7376	2503888957
<i>Leptolyngbya</i> sp. PCC 7376	2503887180
<i>Leptolyngbya</i> sp. PCC 7376	2503885864
<i>Leptolyngbya</i> sp. PCC 7376	2503887357
<i>Leptolyngbya</i> sp. PCC 7376	2503887823
<i>Leptolyngbya</i> sp. PCC 7376	2503890009
<i>Leptolyngbya</i> sp. PCC 7376	2503888868
<i>Leptolyngbya</i> sp. PCC 7376	2503889683
<i>Leptolyngbya</i> sp. PCC 7376	2503885901
<i>Leptolyngbya</i> sp. PCC 7376	2503886588
<i>Leptolyngbya</i> sp. PCC 7376	2503887968
<i>Leptolyngbya</i> sp. PCC 7376	2503888153
<i>Leptolyngbya</i> sp. PCC 7376	2503888559
<i>Leptolyngbya</i> sp. PCC 7376	2503889871
<i>Leptolyngbya</i> sp. PCC 7376	2503885986
<i>Leptolyngbya</i> sp. PCC 7376	2503887017
<i>Leptolyngbya</i> sp. PCC 7376	2503886782
<i>Microcoleus</i> sp. PCC 7113	2509433470
<i>Microcoleus</i> sp. PCC 7113	2509433405
<i>Microcoleus</i> sp. PCC 7113	2509432828
<i>Microcoleus</i> sp. PCC 7113	2509433018
<i>Microcoleus</i> sp. PCC 7113	2509436624
<i>Microcoleus</i> sp. PCC 7113	2509438080
<i>Microcystis aeruginosa</i> NIES-843	641537852
<i>Nodularia spumigena</i> CCY9414	2563163610
<i>Nostoc azollae</i> 0708	648049119
<i>Nostoc azollae</i> 0708	648942786
<i>Nostoc azollae</i> 0708	648051619
<i>Nostoc azollae</i> 0708	648943051
<i>Nostoc azollae</i> 0708	648048953
<i>Nostoc punctiforme</i> PCC 73102	642604390
<i>Nostoc punctiforme</i> PCC 73102	642604219
<i>Nostoc punctiforme</i> PCC 73102	642600334
<i>Nostoc punctiforme</i> PCC 73102	642604290
<i>Nostoc punctiforme</i> PCC 73102	642605738
<i>Nostoc punctiforme</i> PCC 73102	642603152
<i>Nostoc punctiforme</i> PCC 73102	642605742
<i>Nostoc punctiforme</i> PCC 73102	642600749
<i>Nostoc punctiforme</i> PCC 73102	642602549

Table S6. Cont.

Genome	IMG gene ID
<i>Nostoc punctiforme</i> PCC 73102	642603471
<i>Nostoc punctiforme</i> PCC 73102	642602658
<i>Nostoc</i> sp. PCC 7107	2503739740
<i>Nostoc</i> sp. PCC 7107	2503740443
<i>Nostoc</i> sp. PCC 7107	2503742925
<i>Nostoc</i> sp. PCC 7107	2503738702
<i>Nostoc</i> sp. PCC 7107	2503738937
<i>Nostoc</i> sp. PCC 7107	2503739393
<i>Nostoc</i> sp. PCC 7107	2503742427
<i>Nostoc</i> sp. PCC 7120	637234624
<i>Nostoc</i> sp. PCC 7120	637235301
<i>Nostoc</i> sp. PCC 7120	637230577
<i>Nostoc</i> sp. PCC 7120	637232686
<i>Nostoc</i> sp. PCC 7120	637231541
<i>Nostoc</i> sp. PCC 7120	637231596
<i>Nostoc</i> sp. PCC 7120	637233557
<i>Nostoc</i> sp. PCC 7524	2509812720
<i>Nostoc</i> sp. PCC 7524	2509812186
<i>Nostoc</i> sp. PCC 7524	2509812747
<i>Nostoc</i> sp. PCC 7524	2509811269
<i>Nostoc</i> sp. PCC 7524	2509808270
<i>Nostoc</i> sp. PCC 7524	2509810055
<i>Oscillatoria acuminata</i> PCC 6304	2509423158
<i>Oscillatoria acuminata</i> PCC 6304	2509421414
<i>Oscillatoria acuminata</i> PCC 6304	2509421536
<i>Oscillatoria acuminata</i> PCC 6304	2509423345
<i>Oscillatoria acuminata</i> PCC 6304	2509421069
<i>Oscillatoria acuminata</i> PCC 6304	2509421735
<i>Oscillatoria acuminata</i> PCC 6304	2509424907
<i>Oscillatoria acuminata</i> PCC 6304	2509419412
<i>Oscillatoria acuminata</i> PCC 6304	2509420435
<i>Oscillatoria acuminata</i> PCC 6304	2509421184
<i>Oscillatoria acuminata</i> PCC 6304	2509422718
<i>Oscillatoria acuminata</i> PCC 6304	2509420062
<i>Oscillatoria acuminata</i> PCC 6304	2509421803
<i>Oscillatoria acuminata</i> PCC 6304	2509422177
<i>Oscillatoria acuminata</i> PCC 6304	2509423451
<i>Oscillatoria acuminata</i> PCC 6304	2509423314
<i>Oscillatoria acuminata</i> PCC 6304	2509424181
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504087784
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504087514
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504087440
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504092800
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504088508
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504090399

Table S6. Cont.

Genome	IMG gene ID
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504091765
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504087922
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504088046
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504090439
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504086702
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504087694
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504091194
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504088856
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504091137
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504092138
<i>Pleurocapsa</i> sp. PCC 7327	2509573713
<i>Pleurocapsa</i> sp. PCC 7327	2509573853
<i>Pleurocapsa</i> sp. PCC 7327	2509574054
<i>Pleurocapsa</i> sp. PCC 7327	2509574993
<i>Pleurocapsa</i> sp. PCC 7327	2509574416
<i>Pleurocapsa</i> sp. PCC 7327	2509574421
<i>Pleurocapsa</i> sp. PCC 7327	2509572085
<i>Pleurocapsa</i> sp. PCC 7327	2509572671
<i>Pleurocapsa</i> sp. PCC 7327	2509575652
<i>Pleurocapsa</i> sp. PCC 7327	2509575653
<i>Pleurocapsa</i> sp. PCC 7327	2509573552
<i>Pleurocapsa</i> sp. PCC 7327	2509574984
<i>Pleurocapsa</i> sp. PCC 7327	2509574415
<i>Pleurocapsa</i> sp. PCC 7327	2509575651
<i>Pseudanabaena</i> sp. PCC 7367	2504678537
<i>Pseudanabaena</i> sp. PCC 7367	2504679215
<i>Pseudanabaena</i> sp. PCC 7367	2504680984
<i>Pseudanabaena</i> sp. PCC 7367	2504681104
<i>Pseudanabaena</i> sp. PCC 7367	2504681351
<i>Pseudanabaena</i> sp. PCC 7367	2504679236
<i>Rivularia</i> sp. PCC 7116	2510090542
<i>Rivularia</i> sp. PCC 7116	2510090974
<i>Rivularia</i> sp. PCC 7116	2510090902
<i>Rivularia</i> sp. PCC 7116	2510087951
<i>Rivularia</i> sp. PCC 7116	2510085889
<i>Rivularia</i> sp. PCC 7116	2510089520
<i>Stanieria cyanosphaera</i> PCC 7437	2503799526
<i>Stanieria cyanosphaera</i> PCC 7437	2503802265
<i>Stanieria cyanosphaera</i> PCC 7437	2503799331
<i>Stanieria cyanosphaera</i> PCC 7437	2503802102
<i>Stanieria cyanosphaera</i> PCC 7437	2503798113
<i>Stanieria cyanosphaera</i> PCC 7437	2503800170
<i>Stanieria cyanosphaera</i> PCC 7437	2503798580
<i>Stanieria cyanosphaera</i> PCC 7437	2503800280
<i>Stanieria cyanosphaera</i> PCC 7437	2503800785

Table S6. Cont.

Genome	IMG gene ID
<i>Stanieria cyanosphaera</i> PCC 7437	2503798098
<i>Stanieria cyanosphaera</i> PCC 7437	2503799211
<i>Stanieria cyanosphaera</i> PCC 7437	2503799589
<i>Stanieria cyanosphaera</i> PCC 7437	2503802382
<i>Stanieria cyanosphaera</i> PCC 7437	2503798818
<i>Stanieria cyanosphaera</i> PCC 7437	2503799097
<i>Synechococcus elongatus</i> PCC 6301	637617266
<i>Synechococcus elongatus</i> PCC 6301	637615815
<i>Synechococcus elongatus</i> PCC 6301	637617048
<i>Synechococcus elongatus</i> PCC 6301	637618066
<i>Synechococcus elongatus</i> PCC 6301	637616372
<i>Synechococcus elongatus</i> PCC 6301	637616988
<i>Synechococcus elongatus</i> PCC 6301	637615843
<i>Synechococcus elongatus</i> PCC 6301	637616036
<i>Synechococcus elongatus</i> PCC 6301	637617926
<i>Synechococcus elongatus</i> PCC 7942	637800968
<i>Synechococcus elongatus</i> PCC 7942	637799814
<i>Synechococcus elongatus</i> PCC 7942	637798528
<i>Synechococcus elongatus</i> PCC 7942	637800154
<i>Synechococcus elongatus</i> PCC 7942	637800300
<i>Synechococcus elongatus</i> PCC 7942	637799786
<i>Synechococcus elongatus</i> PCC 7942	637798594
<i>Synechococcus elongatus</i> PCC 7942	637799233
<i>Synechococcus elongatus</i> PCC 7942	637799584
<i>Synechococcus</i> sp. CC9311	638116258
<i>Synechococcus</i> sp. CC9311	638116407
<i>Synechococcus</i> sp. CC9311	638115100
<i>Synechococcus</i> sp. JA-3-3Ab	637872697
<i>Synechococcus</i> sp. KORDI-52 (genome sequencing)	2507314819
<i>Synechococcus</i> sp. KORDI-52 (genome sequencing)	2507316388
<i>Synechococcus</i> sp. KORDI-52 (genome sequencing)	2507314812
<i>Synechococcus</i> sp. KORDI-52 (genome sequencing)	2507316272
<i>Synechococcus</i> sp. KORDI-52 (genome sequencing)	2507316266
<i>Synechococcus</i> sp. KORDI-52 (genome sequencing)	2507314786
<i>Synechococcus</i> sp. KORDI-52 (genome sequencing)	2507315577
<i>Synechococcus</i> sp. PCC 6312	2509430960
<i>Synechococcus</i> sp. PCC 6312	2509431200
<i>Synechococcus</i> sp. PCC 6312	2509429850
<i>Synechococcus</i> sp. PCC 6312	2509430045
<i>Synechococcus</i> sp. PCC 6312	2509428174
<i>Synechococcus</i> sp. PCC 6312	2509428720
<i>Synechococcus</i> sp. PCC 6312	2509430535
<i>Synechococcus</i> sp. PCC 6312	2509431771
<i>Synechococcus</i> sp. PCC 7002	641611869
<i>Synechococcus</i> sp. PCC 7002	641612597

Table S6. Cont.

Genome	IMG gene ID
<i>Synechococcus</i> sp. PCC 7002	641612471
<i>Synechococcus</i> sp. PCC 7002	641612664
<i>Synechococcus</i> sp. PCC 7002	641612374
<i>Synechococcus</i> sp. PCC 7002	641612177
<i>Synechococcus</i> sp. PCC 7002	641612878
<i>Synechococcus</i> sp. PCC 7002	641610949
<i>Synechococcus</i> sp. PCC 7502	2508689568
<i>Synechococcus</i> sp. PCC 7502	2508687765
<i>Synechococcus</i> sp. PCC 7502	2508689395
<i>Synechococcus</i> sp. PCC 7502	2508687158
<i>Synechococcus</i> sp. PCC 7502	2508689374
<i>Synechococcus</i> sp. PCC 7502	2508686827
<i>Synechococcus</i> sp. PCC 7502	2508688560
<i>Synechococcus</i> sp. PCC 7502	2508690274
<i>Synechococcus</i> sp. PCC 7502	2508688001
<i>Synechocystis</i> sp. GT-S, PCC 6803	651079677
<i>Synechocystis</i> sp. GT-S, PCC 6803	651078573
<i>Synechocystis</i> sp. GT-S, PCC 6803	651079357
<i>Synechocystis</i> sp. GT-S, PCC 6803	651080330
<i>Synechocystis</i> sp. GT-S, PCC 6803	651077913
<i>Synechocystis</i> sp. GT-S, PCC 6803	651079560
<i>Synechocystis</i> sp. GT-S, PCC 6803	651077915
<i>Synechocystis</i> sp. GT-S, PCC 6803	651078012
<i>Synechocystis</i> sp. GT-S, PCC 6803	651080339
<i>Synechocystis</i> sp. GT-S, PCC 6803	651079871
<i>Synechocystis</i> sp. GT-S, PCC 6803	651077914
<i>Synechocystis</i> sp. GT-S, PCC 6803	651078146
<i>Synechocystis</i> sp. GT-S, PCC 6803	651080808
<i>Synechocystis</i> sp. PCC 6803	2562387201
<i>Synechocystis</i> sp. PCC 6803	637011377
<i>Synechocystis</i> sp. PCC 6803	2562386100
<i>Synechocystis</i> sp. PCC 6803	637010273
<i>Synechocystis</i> sp. PCC 6803	2562385443
<i>Synechocystis</i> sp. PCC 6803	637009614
<i>Synechocystis</i> sp. PCC 6803	637012031
<i>Synechocystis</i> sp. PCC 6803	2562387394
<i>Synechocystis</i> sp. PCC 6803	2562387857
<i>Synechocystis</i> sp. PCC 6803	2562385442
<i>Synechocystis</i> sp. PCC 6803	2562385675
<i>Synechocystis</i> sp. PCC 6803	637012511
<i>Synechocystis</i> sp. PCC 6803	2562385541
<i>Synechocystis</i> sp. PCC 6803	637009846
<i>Synechocystis</i> sp. PCC 6803	2562386884
<i>Synechocystis</i> sp. PCC 6803	2562388327
<i>Synechocystis</i> sp. PCC 6803	637009615

Table S6. Cont.

Genome	IMG gene ID
<i>Synechocystis</i> sp. PCC 6803	637472089
<i>Synechocystis</i> sp. PCC 6803	2562385444
<i>Synechocystis</i> sp. PCC 6803	637009613
<i>Synechocystis</i> sp. PCC 6803	637009712
<i>Synechocystis</i> sp. PCC 6803	637011059
<i>Synechocystis</i> sp. PCC 6803	2562387087
<i>Synechocystis</i> sp. PCC 6803	2562387848
<i>Synechocystis</i> sp. PCC 6803	637011262
<i>Synechocystis</i> sp. PCC 6803	637011571
<i>Synechocystis</i> sp. PCC 6803	637012040
<i>Synechocystis</i> sp. PCC 6803	2562384913
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515004307
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515003140
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515002457
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515002559
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515003974
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515005925
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515002458
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515004186
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515004988
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515006034
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515002695
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515004508
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515004997
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515005488
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515002456
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514154270
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514153167
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514152607
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514152741
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514153951
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514154464
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514152510
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514155400
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514154922
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514152508
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514152509
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514154154
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514154931
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514151053
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514149950
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514150734
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514152183
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514149293
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514149524

Table S6. Cont.

Genome	IMG gene ID
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514150937
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514151247
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514151714
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514151705
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514149390
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514149292
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514149291
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524499619
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524498516
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524500281
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524500750
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524499813
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524499300
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524497857
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524497858
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524497859
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524497956
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524498090
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524499503
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524500272
<i>Thermosynechococcus elongatus</i> BP-1	637314239
<i>Thermosynechococcus elongatus</i> BP-1	637314632
<i>Thermosynechococcus elongatus</i> BP-1	637313241
<i>Thermosynechococcus elongatus</i> BP-1	637313528
<i>Thermosynechococcus elongatus</i> BP-1	637314490
<i>Trichodesmium erythraeum</i> IMS101	638107580
<i>Trichodesmium erythraeum</i> IMS101	638105964
<i>Trichodesmium erythraeum</i> IMS101	638109791

Table S7. Genomes found which do not encode for diguanylate cyclase domain, pfam00990, nor diguanylate phosphodiesterase domain, pfam00563.

Genome	Ecosystem
<i>Cyanobacterium</i> sp. UCYN-A	Marine
<i>Prochlorococcus marinus</i> AS9601 ^a	Mediterranean Sea
<i>Prochlorococcus marinus marinus</i> CCMP 1375	Atlantic Ocean
<i>Prochlorococcus marinus</i> MIT 9211 ^a	Equatorial Pacific
<i>Prochlorococcus marinus</i> MIT 9215 ^a	Equatorial Pacific
<i>Prochlorococcus marinus</i> MIT 9301 ^a	Sargasso Sea
<i>Prochlorococcus marinus</i> MIT 9303 ^a	Sargasso Sea
<i>Prochlorococcus marinus</i> MIT 9312 ^a	Gulf Stream of North Atlantic Ocean
<i>Prochlorococcus marinus</i> MIT 9313 ^a	Gulf Stream of North Atlantic Ocean
<i>Prochlorococcus marinus</i> MIT 9515 ^a	Equatorial Pacific
<i>Prochlorococcus marinus</i> NATL1A ^a	North Atlantic Ocean
<i>Prochlorococcus marinus</i> NATL2A ^a	North Atlantic Ocean
<i>Prochlorococcus marinus pastoris</i> CCMP 1986	Mediterranean Sea

Table S7. Cont.

Genome	Ecosystem
<i>Prochlorococcus</i> sp. CC9605 ^a	California coast
<i>Prochlorococcus</i> sp. CC9902 ^a	California current
<i>Prochlorococcus</i> ssp. WH 7803 ^a	Sargasso Sea
<i>Prochlorococcus</i> sp. WH8102 ^a	Tropical Atlantic ocean
<i>Synechococcus</i> sp. KORDI-100 (genome sequencing)	Pacific Ocean
<i>Synechococcus</i> sp. KORDI-49 (genome sequencing)	East China Sea
<i>Synechococcus</i> sp. RCC 307	Mediterranean Sea
<i>Synechococcus</i> sp. WH 8016 ^a	Woods Hole, MA
<i>Synechococcus</i> sp. WH 8109 ^a	Sargasso Sea

Note: ^a Described in Agostoni, M.; Koestler, B.J.; Waters, C.M.; Williams, B.L.; Montgomery, B.L. Occurrence of cyclic di-GMP-modulating output domains in cyanobacteria: an illuminating perspective. mBio 2013, 4.

Table S8. Genomes found which encode for nitrite reductase domain, pfam00394.

Genome	IMG gene ID
<i>Chamaesiphon minutus</i> PCC 6605	2510442344
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503609910
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503610191
<i>Crinalium epipsammum</i> PCC 9333	2504683184
<i>Cyanobacterium aponinum</i> PCC 10605	2503745310
<i>Cyanobacterium aponinum</i> PCC 10605	2503745403
<i>Cyanobium gracile</i> PCC 6307	2508553765
<i>Cyanothece</i> sp. BH68, ATCC 51142	641675263
<i>Cyanothece</i> sp. PCC 7424	643478656
<i>Cyanothece</i> sp. PCC 7822	648190324
<i>Cyanothece</i> sp. PCC 7822	648199525
<i>Cyanothece</i> sp. PCC 8801	643476633
<i>Cyanothece</i> sp. PCC 8801	643477263
<i>Cyanothece</i> sp. PCC 8802	644982253
<i>Cyanothece</i> sp. PCC 8802	644980456
<i>Gloeocapsa</i> sp. PCC 7428	2503792257
<i>Gloeocapsa</i> sp. PCC 7428	2503796378
<i>Halothece</i> sp. PCC 7418	2503636436
<i>Leptolyngbya</i> sp. PCC 7376	2503889606
<i>Nodularia spumigena</i> CCY9414	2563160929
<i>Nostoc</i> sp. PCC 7524	2509808452
<i>Pleurocapsa</i> sp. PCC 7327	2509573184
<i>Pseudanabaena</i> sp. PCC 7367	2504680168
<i>Rivularia</i> sp. PCC 7116	2510086942
<i>Rivularia</i> sp. PCC 7116	2510086915
<i>Stanieria cyanosphaera</i> PCC 7437	2503798025
<i>Stanieria cyanosphaera</i> PCC 7437	2503797633
<i>Stanieria cyanosphaera</i> PCC 7437	2503797765
<i>Stanieria cyanosphaera</i> PCC 7437	2503798035
<i>Stanieria cyanosphaera</i> PCC 7437	2503799954

Table S8. Cont.

Genome	IMG gene ID
<i>Synechococcus</i> sp. CC9311	638115077
<i>Synechococcus</i> sp. PCC 7002	641612329
<i>Synechococcus</i> sp. RCC 307	640545516
<i>Synechococcus</i> ssp. WH 7803	640543552
<i>Synechococcus</i> sp. WH 8016	2507491878
<i>Trichodesmium erythraeum</i> IMS101	638105686

Table S9. Genomes found which encode for nitrite reductase domain, pfam07731.

Genome	IMG gene ID
<i>Anabaena cylindrica</i> PCC 7122	2504132596
<i>Anabaena</i> sp. 90	2562230279
<i>Anabaena variabilis</i> ATCC 29413	646567251
<i>Anabaena variabilis</i> ATCC 29413	646569689
<i>Calothrix</i> sp. PCC 6303	2504094722
<i>Calothrix</i> sp. PCC 7507	2505801313
<i>Chamaesiphon minutus</i> PCC 6605	2510442047
<i>Chamaesiphon minutus</i> PCC 6605	2510437944
<i>Chamaesiphon minutus</i> PCC 6605	2510438978
<i>Chamaesiphon minutus</i> PCC 6605	2510442344
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503609910
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503609920
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503609957
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503612177
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503610191
<i>Crinalium epipsammum</i> PCC 9333	2504682433
<i>Crinalium epipsammum</i> PCC 9333	2504683184
<i>Cyanobacterium aponinum</i> PCC 10605	2503745310
<i>Cyanobacterium aponinum</i> PCC 10605	2503746165
<i>Cyanobacterium aponinum</i> PCC 10605	2503745403
<i>Cyanobacterium stanieri</i> PCC 7202	2503367197
<i>Cyanobium gracile</i> PCC 6307	2508553765
<i>Cyanothece</i> sp. BH68, ATCC 51142	641677124
<i>Cyanothece</i> sp. BH68, ATCC 51142	641675263
<i>Cyanothece</i> sp. PCC 7424	643480186
<i>Cyanothece</i> sp. PCC 7424	643478656
<i>Cyanothece</i> sp. PCC 7424	643480517
<i>Cyanothece</i> sp. PCC 7425	643586443
<i>Cyanothece</i> sp. PCC 7822	648199543
<i>Cyanothece</i> sp. PCC 7822	648188411
<i>Cyanothece</i> sp. PCC 7822	648199764
<i>Cyanothece</i> sp. PCC 7822	648199525
<i>Cyanothece</i> sp. PCC 7822	648189975
<i>Cyanothece</i> sp. PCC 7822	648190324
<i>Cyanothece</i> sp. PCC 8801	643474523
<i>Cyanothece</i> sp. PCC 8801	643476633

Table S9. Cont.

Genome	IMG gene ID
<i>Cyanothece</i> sp. PCC 8801	643477263
<i>Cyanothece</i> sp. PCC 8801	643475376
<i>Cyanothece</i> sp. PCC 8802	644979474
<i>Cyanothece</i> sp. PCC 8802	644980456
<i>Cyanothece</i> sp. PCC 8802	644982253
<i>Cyanothece</i> sp. PCC 8802	644980351
<i>Cylindrospermum stagnale</i> PCC 7417	2509768500
<i>Cylindrospermum stagnale</i> PCC 7417	2509769843
<i>Dactylococcopsis salina</i> PCC 8305	2509553050
<i>Geitlerinema</i> sp. PCC 7407	2503606694
<i>Gloeobacter kilaueensis</i> JS1	2558548095
<i>Gloeobacter kilaueensis</i> JS1	2558548748
<i>Gloeobacter kilaueensis</i> JS1	2558545388
<i>Gloeobacter violaceus</i> PCC 7421	637460699
<i>Gloeocapsa</i> sp. PCC 7428	2503792257
<i>Gloeocapsa</i> sp. PCC 7428	2503792303
<i>Gloeocapsa</i> sp. PCC 7428	2503796378
<i>Halothece</i> sp. PCC 7418	2503635855
<i>Halothece</i> sp. PCC 7418	2503636436
<i>Leptolyngbya</i> sp. JSC-1	2022833468
<i>Leptolyngbya</i> sp. JSC-1	2558013019
<i>Leptolyngbya</i> sp. PCC 7376	2503889606
<i>Leptolyngbya</i> sp. PCC 7376	2503888093
<i>Microcoleus</i> sp. PCC 7113	2509432847
<i>Nodularia spumigena</i> CCY9414	2563160929
<i>Nodularia spumigena</i> CCY9414	2563164112
<i>Nostoc azollae</i> 0708	648049880
<i>Nostoc</i> sp. PCC 7107	2503740301
<i>Nostoc</i> sp. PCC 7120	637234334
<i>Nostoc</i> sp. PCC 7524	2509808452
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504090523
<i>Pleurocapsa</i> sp. PCC 7327	2509573184
<i>Prochlorococcus marinus</i> MIT 9303	640087589
<i>Pseudanabaena</i> sp. PCC 7367	2504680168
<i>Rivularia</i> sp. PCC 7116	2510086365
<i>Rivularia</i> sp. PCC 7116	2510086942
<i>Rivularia</i> sp. PCC 7116	2510086915
<i>Stanieria cyanosphaera</i> PCC 7437	2503798025
<i>Stanieria cyanosphaera</i> PCC 7437	2503797633
<i>Stanieria cyanosphaera</i> PCC 7437	2503797614
<i>Stanieria cyanosphaera</i> PCC 7437	2503797765
<i>Stanieria cyanosphaera</i> PCC 7437	2503798435
<i>Stanieria cyanosphaera</i> PCC 7437	2503799954
<i>Stanieria cyanosphaera</i> PCC 7437	2503798035
<i>Synechococcus</i> sp. CC9311	638115077

Table S9. Cont.

Genome	IMG gene ID
<i>Synechococcus</i> sp. CC9902	637771568
<i>Synechococcus</i> sp. KORDI-100 (genome sequencing)	2507317166
<i>Synechococcus</i> sp. PCC 7002	641612329
<i>Synechococcus</i> sp. PCC 7002	641612670
<i>Synechococcus</i> sp. RCC 307	640545516
<i>Synechococcus</i> ssp. WH 7803	640543552
<i>Synechococcus</i> ssp. WH 7803	640543301
<i>Synechococcus</i> sp. WH 8016	2507491878
<i>Synechococcus</i> sp. WH 8016	2507493244
<i>Trichodesmium erythraeum</i> IMS101	638109832
<i>Trichodesmium erythraeum</i> IMS101	638106106
<i>Trichodesmium erythraeum</i> IMS101	638105686

Table S10. Genomes found which encode for nitrite reductase domain, pfam07732.

Genome	IMG gene ID
<i>Anabaena cylindrica</i> PCC 7122	2504132596
<i>Anabaena</i> sp. 90	2562230279
<i>Anabaena variabilis</i> ATCC 29413	646569689
<i>Anabaena variabilis</i> ATCC 29413	646567251
<i>Calothrix</i> sp. PCC 6303	2504094722
<i>Calothrix</i> sp. PCC 7507	2505801313
<i>Chamaesiphon minutus</i> PCC 6605	2510437944
<i>Chamaesiphon minutus</i> PCC 6605	2510442047
<i>Chamaesiphon minutus</i> PCC 6605	2510442344
<i>Chamaesiphon minutus</i> PCC 6605	2510438978
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503609910
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503609920
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503612177
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503609957
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503610191
<i>Crinalium epipsammum</i> PCC 9333	2504682433
<i>Crinalium epipsammum</i> PCC 9333	2504683184
<i>Cyanobacterium aponinum</i> PCC 10605	2503745403
<i>Cyanobacterium aponinum</i> PCC 10605	2503745310
<i>Cyanobacterium stanieri</i> PCC 7202	2503367197
<i>Cyanobium gracile</i> PCC 6307	2508553765
<i>Cyanothece</i> sp. BH68, ATCC 51142	641677124
<i>Cyanothece</i> sp. BH68, ATCC 51142	641675263
<i>Cyanothece</i> sp. PCC 7424	643478656
<i>Cyanothece</i> sp. PCC 7424	643480186
<i>Cyanothece</i> sp. PCC 7424	643480517
<i>Cyanothece</i> sp. PCC 7425	643586443
<i>Cyanothece</i> sp. PCC 7822	648188411
<i>Cyanothece</i> sp. PCC 7822	648199543
<i>Cyanothece</i> sp. PCC 7822	648190324

Table S10. Cont.

Genome	IMG gene ID
<i>Cyanothece</i> sp. PCC 7822	648189975
<i>Cyanothece</i> sp. PCC 7822	648199525
<i>Cyanothece</i> sp. PCC 7822	648199764
<i>Cyanothece</i> sp. PCC 8801	643476633
<i>Cyanothece</i> sp. PCC 8801	643477263
<i>Cyanothece</i> sp. PCC 8801	643474523
<i>Cyanothece</i> sp. PCC 8801	643475376
<i>Cyanothece</i> sp. PCC 8802	644979474
<i>Cyanothece</i> sp. PCC 8802	644982253
<i>Cyanothece</i> sp. PCC 8802	644980351
<i>Cyanothece</i> sp. PCC 8802	644980456
<i>Cylindrospermum stagnale</i> PCC 7417	2509769843
<i>Dactylococcopsis salina</i> PCC 8305	2509555897
<i>Geitlerinema</i> sp. PCC 7407	2503606694
<i>Gloeobacter kilaueensis</i> JS1	2558548748
<i>Gloeobacter kilaueensis</i> JS1	2558548095
<i>Gloeobacter kilaueensis</i> JS1	2558545388
<i>Gloeobacter violaceus</i> PCC 7421	637460699
<i>Gloeocapsa</i> sp. PCC 7428	2503792257
<i>Gloeocapsa</i> sp. PCC 7428	2503796378
<i>Gloeocapsa</i> sp. PCC 7428	2503792303
<i>Halothece</i> sp. PCC 7418	2503636436
<i>Halothece</i> sp. PCC 7418	2503635855
<i>Leptolyngbya</i> sp. JSC-1	2022833468
<i>Leptolyngbya</i> sp. JSC-1	2558013019
<i>Leptolyngbya</i> sp. PCC 7376	2503889606
<i>Leptolyngbya</i> sp. PCC 7376	2503888093
<i>Microcoleus</i> sp. PCC 7113	2509432847
<i>Nodularia spumigena</i> CCY9414	2563160929
<i>Nodularia spumigena</i> CCY9414	2563164112
<i>Nostoc azollae</i> 0708	648049880
<i>Nostoc</i> sp. PCC 7107	2503740301
<i>Nostoc</i> sp. PCC 7120	637234334
<i>Nostoc</i> sp. PCC 7524	2509808452
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504090523
<i>Pleurocapsa</i> sp. PCC 7327	2509573184
<i>Prochlorococcus marinus</i> MIT 9303	640087589
<i>Pseudanabaena</i> sp. PCC 7367	2504680168
<i>Rivularia</i> sp. PCC 7116	2510086942
<i>Rivularia</i> sp. PCC 7116	2510086365
<i>Rivularia</i> sp. PCC 7116	2510086915
<i>Stanieria cyanosphaera</i> PCC 7437	2503798025
<i>Stanieria cyanosphaera</i> PCC 7437	2503798035
<i>Stanieria cyanosphaera</i> PCC 7437	2503797633
<i>Stanieria cyanosphaera</i> PCC 7437	2503797614

Table S10. Cont.

Genome	IMG gene ID
<i>Stanieria cyanosphaera</i> PCC 7437	2503798435
<i>Stanieria cyanosphaera</i> PCC 7437	2503797765
<i>Stanieria cyanosphaera</i> PCC 7437	2503799954
<i>Synechococcus</i> sp. CC9311	638115077
<i>Synechococcus</i> sp. KORDI-100 (genome sequencing)	2507317166
<i>Synechococcus</i> sp. PCC 7002	641612329
<i>Synechococcus</i> sp. PCC 7002	641612670
<i>Synechococcus</i> sp. RCC 307	640545516
<i>Synechococcus</i> ssp. WH 7803	640543552
<i>Synechococcus</i> sp. WH 8016	2507491878
<i>Trichodesmium erythraeum</i> IMS101	638109832
<i>Trichodesmium erythraeum</i> IMS101	638105686
<i>Trichodesmium erythraeum</i> IMS101	638106106

Table S11. Genomes found which encode for nitrite reductase domain, pfam13442.

Genome	IMG gene ID
<i>Acaryochloris marina</i> MBIC11017	641250847
<i>Acaryochloris marina</i> MBIC11017	641252969
<i>Acaryochloris marina</i> MBIC11017	641251846
<i>Anabaena cylindrica</i> PCC 7122	2504135021
<i>Anabaena cylindrica</i> PCC 7122	2504130068
<i>Anabaena cylindrica</i> PCC 7122	2504132644
<i>Anabaena cylindrica</i> PCC 7122	2504131504
<i>Anabaena cylindrica</i> PCC 7122	2504130067
<i>Anabaena</i> sp. 90	2562228342
<i>Anabaena</i> sp. 90	2562227073
<i>Anabaena</i> sp. 90	2562228398
<i>Anabaena variabilis</i> ATCC 29413	646566688
<i>Anabaena variabilis</i> ATCC 29413	646567020
<i>Anabaena variabilis</i> ATCC 29413	646568241
<i>Anabaena variabilis</i> ATCC 29413	646569523
<i>Arthrospira platensis</i> NIES-39	650384678
<i>Arthrospira platensis</i> NIES-39	650389185
<i>Calothrix</i> sp. PCC 6303	2504097076
<i>Calothrix</i> sp. PCC 6303	2504094023
<i>Calothrix</i> sp. PCC 6303	2504097401
<i>Calothrix</i> sp. PCC 6303	2504093721
<i>Calothrix</i> sp. PCC 7507	2505802142
<i>Calothrix</i> sp. PCC 7507	2505800989
<i>Calothrix</i> sp. PCC 7507	2505802397
<i>Calothrix</i> sp. PCC 7507	2505802640
<i>Chamaesiphon minutus</i> PCC 6605	2510439717
<i>Chamaesiphon minutus</i> PCC 6605	2510440879
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503611584
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503612893

Table S11. Cont.

Genome	IMG gene ID
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503613161
<i>Crinalium epipsammum</i> PCC 9333	2504683486
<i>Crinalium epipsammum</i> PCC 9333	2504686745
<i>Cyanobacterium aponinum</i> PCC 10605	2503747334
<i>Cyanobacterium aponinum</i> PCC 10605	2503747119
<i>Cyanobacterium aponinum</i> PCC 10605	2503746371
<i>Cyanobacterium stanieri</i> PCC 7202	2503368298
<i>Cyanobacterium stanieri</i> PCC 7202	2503366615
<i>Cyanobium gracile</i> PCC 6307	2508550499
<i>Cyanobium gracile</i> PCC 6307	2508553674
<i>Cyanobium gracile</i> PCC 6307	2508553730
<i>Cyanothece</i> sp. BH68, ATCC 51142	641675056
<i>Cyanothece</i> sp. BH68, ATCC 51142	641677759
<i>Cyanothece</i> sp. BH68, ATCC 51142	641675583
<i>Cyanothece</i> sp. PCC 7424	643479148
<i>Cyanothece</i> sp. PCC 7424	643482862
<i>Cyanothece</i> sp. PCC 7424	643482575
<i>Cyanothece</i> sp. PCC 7424	643481894
<i>Cyanothece</i> sp. PCC 7425	643586466
<i>Cyanothece</i> sp. PCC 7425	643586834
<i>Cyanothece</i> sp. PCC 7822	648189028
<i>Cyanothece</i> sp. PCC 7822	648189634
<i>Cyanothece</i> sp. PCC 7822	648187743
<i>Cyanothece</i> sp. PCC 8801	643475074
<i>Cyanothece</i> sp. PCC 8801	643476846
<i>Cyanothece</i> sp. PCC 8801	643475160
<i>Cyanothece</i> sp. PCC 8802	644981816
<i>Cyanothece</i> sp. PCC 8802	644980125
<i>Cyanothece</i> sp. PCC 8802	644980019
<i>Cylindrospermum stagnale</i> PCC 7417	2509768387
<i>Cylindrospermum stagnale</i> PCC 7417	2509768680
<i>Cylindrospermum stagnale</i> PCC 7417	2509768975
<i>Cylindrospermum stagnale</i> PCC 7417	2509767630
<i>Dactylococcopsis salina</i> PCC 8305	2509555349
<i>Dactylococcopsis salina</i> PCC 8305	2509554929
<i>Geitlerinema</i> sp. PCC 7407	2503606224
<i>Geitlerinema</i> sp. PCC 7407	2503609786
<i>Geitlerinema</i> sp. PCC 7407	2503609788
<i>Geitlerinema</i> sp. PCC 7407	2503609258
<i>Gloeobacter violaceus</i> PCC 7421	637459298
<i>Gloeobacter violaceus</i> PCC 7421	637459372
<i>Gloeocapsa</i> sp. PCC 7428	2503793938
<i>Gloeocapsa</i> sp. PCC 7428	2503796894
<i>Halothece</i> sp. PCC 7418	2503634991
<i>Halothece</i> sp. PCC 7418	2503637968

Table S11. Cont.

Genome	IMG gene ID
<i>Leptolyngbya</i> sp. JSC-1	2558009211
<i>Leptolyngbya</i> sp. JSC-1	2022828679
<i>Leptolyngbya</i> sp. JSC-1	2022829424
<i>Leptolyngbya</i> sp. JSC-1	2558011326
<i>Leptolyngbya</i> sp. JSC-1	2022831672
<i>Leptolyngbya</i> sp. JSC-1	2558008506
<i>Leptolyngbya</i> sp. PCC 7376	2503886063
<i>Leptolyngbya</i> sp. PCC 7376	2503887375
<i>Leptolyngbya</i> sp. PCC 7376	2503888994
<i>Microcoleus</i> sp. PCC 7113	2509434941
<i>Microcystis aeruginosa</i> NIES-843	641534759
<i>Microcystis aeruginosa</i> NIES-843	641539652
<i>Nodularia spumigena</i> CCY9414	2563160541
<i>Nodularia spumigena</i> CCY9414	2563160954
<i>Nodularia spumigena</i> CCY9414	2563160956
<i>Nostoc azollae</i> 0708	648050140
<i>Nostoc azollae</i> 0708	648051470
<i>Nostoc azollae</i> 0708	648049321
<i>Nostoc punctiforme</i> PCC 73102	642600443
<i>Nostoc punctiforme</i> PCC 73102	642603947
<i>Nostoc punctiforme</i> PCC 73102	642601099
<i>Nostoc punctiforme</i> PCC 73102	642601909
<i>Nostoc</i> sp. PCC 7107	2503742631
<i>Nostoc</i> sp. PCC 7107	2503742844
<i>Nostoc</i> sp. PCC 7107	2503744115
<i>Nostoc</i> sp. PCC 7107	2503740848
<i>Nostoc</i> sp. PCC 7120	637231732
<i>Nostoc</i> sp. PCC 7120	637234650
<i>Nostoc</i> sp. PCC 7120	637230517
<i>Nostoc</i> sp. PCC 7524	2509808873
<i>Nostoc</i> sp. PCC 7524	2509809247
<i>Nostoc</i> sp. PCC 7524	2509809997
<i>Nostoc</i> sp. PCC 7524	2509810459
<i>Nostoc</i> sp. PCC 7524	2509809864
<i>Oscillatoria acuminata</i> PCC 6304	2509422500
<i>Oscillatoria acuminata</i> PCC 6304	2509420858
<i>Oscillatoria acuminata</i> PCC 6304	2509422054
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504091384
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504089777
<i>Pleurocapsa</i> sp. PCC 7327	2509575222
<i>Pleurocapsa</i> sp. PCC 7327	2509575062
<i>Pleurocapsa</i> sp. PCC 7327	2509575857
<i>Prochlorococcus marinus</i> AS9601	640078877
<i>Prochlorococcus marinus marinus</i> CCMP 1375	637440991
<i>Prochlorococcus marinus</i> MIT 9211	641284938

Table S11. Cont.

Genome	IMG gene ID
<i>Prochlorococcus marinus</i> MIT 9211	641285501
<i>Prochlorococcus marinus</i> MIT 9215	640943800
<i>Prochlorococcus marinus</i> MIT 9301	640160354
<i>Prochlorococcus marinus</i> MIT 9301	640160749
<i>Prochlorococcus marinus</i> MIT 9303	640087265
<i>Prochlorococcus marinus</i> MIT 9303	640087328
<i>Prochlorococcus marinus</i> MIT 9312	637797237
<i>Prochlorococcus marinus</i> MIT 9312	637797592
<i>Prochlorococcus marinus</i> MIT 9313	637447197
<i>Prochlorococcus marinus</i> MIT 9313	637447148
<i>Prochlorococcus marinus</i> NATL1A	640084811
<i>Prochlorococcus marinus</i> NATL1A	640083907
<i>Prochlorococcus marinus</i> NATL2A	637686865
<i>Prochlorococcus marinus</i> NATL2A	637687558
<i>Prochlorococcus marinus pastoris</i> CCMP 1986	637450072
<i>Pseudanabaena</i> sp. PCC 7367	2504681155
<i>Pseudanabaena</i> sp. PCC 7367	2504680508
<i>Rivularia</i> sp. PCC 7116	2510087476
<i>Rivularia</i> sp. PCC 7116	2510090392
<i>Rivularia</i> sp. PCC 7116	2510088669
<i>Rivularia</i> sp. PCC 7116	2510090693
<i>Stanieria cyanosphaera</i> PCC 7437	2503800402
<i>Stanieria cyanosphaera</i> PCC 7437	2503799647
<i>Synechococcus elongatus</i> PCC 6301	637617244
<i>Synechococcus elongatus</i> PCC 6301	637616938
<i>Synechococcus elongatus</i> PCC 6301	637617400
<i>Synechococcus elongatus</i> PCC 6301	637618155
<i>Synechococcus elongatus</i> PCC 6301	637615729
<i>Synechococcus elongatus</i> PCC 7942	637800835
<i>Synechococcus elongatus</i> PCC 7942	637799910
<i>Synechococcus elongatus</i> PCC 7942	637800992
<i>Synechococcus elongatus</i> PCC 7942	637800066
<i>Synechococcus elongatus</i> PCC 7942	637798645
<i>Synechococcus</i> sp. CC9311	638115330
<i>Synechococcus</i> sp. CC9311	638115478
<i>Synechococcus</i> sp. CC9311	638115496
<i>Synechococcus</i> sp. CC9311	638115341
<i>Synechococcus</i> sp. CC9605	637775606
<i>Synechococcus</i> sp. CC9605	637776533
<i>Synechococcus</i> sp. CC9605	637775585
<i>Synechococcus</i> sp. CC9902	637771073
<i>Synechococcus</i> sp. CC9902	637771089
<i>Synechococcus</i> sp. JA-2-3B'a(2-13)	637875919
<i>Synechococcus</i> sp. JA-3-3Ab	637873861
<i>Synechococcus</i> sp. KORDI-100 (genome sequencing)	2507317512

Table S11. Cont.

Genome	IMG gene ID
<i>Synechococcus</i> sp. KORDI-100 (genome sequencing)	2507318523
<i>Synechococcus</i> sp. KORDI-100 (genome sequencing)	2507318539
<i>Synechococcus</i> sp. KORDI-49 (genome sequencing)	2507312043
<i>Synechococcus</i> sp. KORDI-49 (genome sequencing)	2507312026
<i>Synechococcus</i> sp. KORDI-52 (genome sequencing)	2507315728
<i>Synechococcus</i> sp. KORDI-52 (genome sequencing)	2507314676
<i>Synechococcus</i> sp. KORDI-52 (genome sequencing)	2507314696
<i>Synechococcus</i> sp. KORDI-52 (genome sequencing)	2507315381
<i>Synechococcus</i> sp. PCC 6312	2509429333
<i>Synechococcus</i> sp. PCC 6312	2509429934
<i>Synechococcus</i> sp. PCC 7002	641610177
<i>Synechococcus</i> sp. PCC 7002	641612401
<i>Synechococcus</i> sp. PCC 7502	2508687056
<i>Synechococcus</i> sp. PCC 7502	2508689363
<i>Synechococcus</i> sp. RCC 307	640545857
<i>Synechococcus</i> sp. RCC 307	640546545
<i>Synechococcus</i> ssp. WH 7803	640543105
<i>Synechococcus</i> ssp. WH 7803	640543088
<i>Synechococcus</i> ssp. WH 7803	640543337
<i>Synechococcus</i> sp. WH 8016	2507491362
<i>Synechococcus</i> sp. WH 8016	2507491294
<i>Synechococcus</i> sp. WH 8016	2507491501
<i>Synechococcus</i> sp. WH 8109	2563724924
<i>Synechococcus</i> sp. WH 8109	2563725286
<i>Synechococcus</i> sp. WH 8109	2563724944
<i>Synechococcus</i> sp. WH8102	637445612
<i>Synechococcus</i> sp. WH8102	637444826
<i>Synechococcus</i> sp. WH8102	637445630
<i>Synechocystis</i> sp. GT-S, PCC 6803	651078515
<i>Synechocystis</i> sp. GT-S, PCC 6803	651078712
<i>Synechocystis</i> sp. PCC 6803	637010412
<i>Synechocystis</i> sp. PCC 6803	637010215
<i>Synechocystis</i> sp. PCC 6803	2562386042
<i>Synechocystis</i> sp. PCC 6803	2562386239
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515003287
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515003079
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514153306
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514153109
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514150089
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514149892
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524498458
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524498655
<i>Thermosynechococcus elongatus</i> BP-1	637313904
<i>Trichodesmium erythraeum</i> IMS101	638107635
<i>Trichodesmium erythraeum</i> IMS101	638109488
<i>Trichodesmium erythraeum</i> IMS101	638107247

Table S12. Genomes found which encode for nitric oxide reductase domain, pfam00115.

Genome	IMG gene ID
<i>Acaryochloris marina</i> MBIC11017	641255601
<i>Acaryochloris marina</i> MBIC11017	641249600
<i>Acaryochloris marina</i> MBIC11017	641253700
<i>Anabaena cylindrica</i> PCC 7122	2504134484
<i>Anabaena cylindrica</i> PCC 7122	2504129700
<i>Anabaena cylindrica</i> PCC 7122	2504135103
<i>Anabaena</i> sp. 90	2562228033
<i>Anabaena</i> sp. 90	2562227326
<i>Anabaena</i> sp. 90	2562230761
<i>Anabaena variabilis</i> ATCC 29413	646565926
<i>Anabaena variabilis</i> ATCC 29413	646566007
<i>Anabaena variabilis</i> ATCC 29413	646569078
<i>Anabaena variabilis</i> ATCC 29413	646565034
<i>Anabaena variabilis</i> ATCC 29413	646569799
<i>Arthrospira platensis</i> NIES-39	650389059
<i>Calothrix</i> sp. PCC 6303	2504093039
<i>Calothrix</i> sp. PCC 6303	2504097212
<i>Calothrix</i> sp. PCC 6303	2504095875
<i>Calothrix</i> sp. PCC 6303	2504095016
<i>Calothrix</i> sp. PCC 7507	2505800879
<i>Calothrix</i> sp. PCC 7507	2505798421
<i>Calothrix</i> sp. PCC 7507	2505802669
<i>Chamaesiphon minutus</i> PCC 6605	2510440853
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503613634
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503611080
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503614323
<i>Crinalium epipsammum</i> PCC 9333	2504686564
<i>Cyanobacterium aponinum</i> PCC 10605	2503747506
<i>Cyanobacterium aponinum</i> PCC 10605	2503745480
<i>Cyanobacterium</i> sp. UCYN-A	646531002
<i>Cyanobacterium stanieri</i> PCC 7202	2503367860
<i>Cyanobacterium stanieri</i> PCC 7202	2503365792
<i>Cyanobium gracile</i> PCC 6307	2508553176
<i>Cyanobium gracile</i> PCC 6307	2508553600
<i>Cyanothece</i> sp. BH68, ATCC 51142	641678618
<i>Cyanothece</i> sp. BH68, ATCC 51142	641679323
<i>Cyanothece</i> sp. BH68, ATCC 51142	641676462
<i>Cyanothece</i> sp. PCC 7424	643481386
<i>Cyanothece</i> sp. PCC 7424	643482296
<i>Cyanothece</i> sp. PCC 7425	643584218
<i>Cyanothece</i> sp. PCC 7425	643586928
<i>Cyanothece</i> sp. PCC 7822	648199627
<i>Cyanothece</i> sp. PCC 7822	648189604
<i>Cyanothece</i> sp. PCC 7822	648189280
<i>Cyanothece</i> sp. PCC 8801	643473671

Table S12. Cont.

Genome	IMG gene ID
<i>Cyanothece</i> sp. PCC 8802	644978611
<i>Cylindrospermum stagnale</i> PCC 7417	2509771547
<i>Cylindrospermum stagnale</i> PCC 7417	2509768519
<i>Cylindrospermum stagnale</i> PCC 7417	2509772114
<i>Dactylococcopsis salina</i> PCC 8305	2509552512
<i>Geitlerinema</i> sp. PCC 7407	2503606513
<i>Geitlerinema</i> sp. PCC 7407	2503606227
<i>Gloeobacter kilaueensis</i> JS1	2558548608
<i>Gloeobacter kilaueensis</i> JS1	2558547741
<i>Gloeobacter kilaueensis</i> JS1	2558547373
<i>Gloeobacter kilaueensis</i> JS1	2558547732
<i>Gloeobacter violaceus</i> PCC 7421	637459558
<i>Gloeobacter violaceus</i> PCC 7421	637458116
<i>Gloeocapsa</i> sp. PCC 7428	2503797216
<i>Gloeocapsa</i> sp. PCC 7428	2503797045
<i>Gloeocapsa</i> sp. PCC 7428	2503797381
<i>Halotheca</i> sp. PCC 7418	2503638580
<i>Leptolyngbya</i> sp. JSC-1	2558009452
<i>Leptolyngbya</i> sp. JSC-1	2022829681
<i>Leptolyngbya</i> sp. JSC-1	2022828002
<i>Leptolyngbya</i> sp. JSC-1	2022832126
<i>Leptolyngbya</i> sp. JSC-1	2558007862
<i>Leptolyngbya</i> sp. JSC-1	2558011747
<i>Leptolyngbya</i> sp. PCC 7376	2503887431
<i>Microcoleus</i> sp. PCC 7113	2509436170
<i>Microcoleus</i> sp. PCC 7113	2509434885
<i>Microcoleus</i> sp. PCC 7113	2509432801
<i>Microcoleus</i> sp. PCC 7113	2509435570
<i>Microcystis aeruginosa</i> NIES-843	641536286
<i>Nodularia spumigena</i> CCY9414	2563159412
<i>Nodularia spumigena</i> CCY9414	2563163147
<i>Nodularia spumigena</i> CCY9414	2563159104
<i>Nostoc azollae</i> 0708	648051160
<i>Nostoc azollae</i> 0708	648051218
<i>Nostoc azollae</i> 0708	648050508
<i>Nostoc azollae</i> 0708	648052310
<i>Nostoc azollae</i> 0708	648942351
<i>Nostoc punctiforme</i> PCC 73102	642601007
<i>Nostoc punctiforme</i> PCC 73102	642602529
<i>Nostoc punctiforme</i> PCC 73102	642599656
<i>Nostoc punctiforme</i> PCC 73102	642604455
<i>Nostoc</i> sp. PCC 7107	2503738974
<i>Nostoc</i> sp. PCC 7107	2503739378
<i>Nostoc</i> sp. PCC 7107	2503740260
<i>Nostoc</i> sp. PCC 7120	637231316

Table S12. Cont.

Genome	IMG gene ID
<i>Nostoc</i> sp. PCC 7120	637232897
<i>Nostoc</i> sp. PCC 7120	637233116
<i>Nostoc</i> sp. PCC 7524	2509811348
<i>Nostoc</i> sp. PCC 7524	2509812235
<i>Nostoc</i> sp. PCC 7524	2509811239
<i>Oscillatoria acuminata</i> PCC 6304	2509423938
<i>Oscillatoria acuminata</i> PCC 6304	2509424047
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504086861
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504087807
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504089160
<i>Pleurocapsa</i> sp. PCC 7327	2509573849
<i>Pleurocapsa</i> sp. PCC 7327	2509573200
<i>Pleurocapsa</i> sp. PCC 7327	2509573482
<i>Pleurocapsa</i> sp. PCC 7327	2509575394
<i>Prochlorococcus marinus</i> AS9601	640078212
<i>Prochlorococcus marinus marinus</i> CCMP 1375	637440852
<i>Prochlorococcus marinus</i> MIT 9211	641284799
<i>Prochlorococcus marinus</i> MIT 9215	640944281
<i>Prochlorococcus marinus</i> MIT 9215	640943126
<i>Prochlorococcus marinus</i> MIT 9301	640160047
<i>Prochlorococcus marinus</i> MIT 9303	640086148
<i>Prochlorococcus marinus</i> MIT 9312	637796962
<i>Prochlorococcus marinus</i> MIT 9313	637448037
<i>Prochlorococcus marinus</i> MIT 9515	640080182
<i>Prochlorococcus marinus</i> MIT 9515	640080948
<i>Prochlorococcus marinus</i> NATL1A	640083774
<i>Prochlorococcus marinus</i> NATL2A	637688667
<i>Prochlorococcus marinus pastoris</i> CCMP 1986	637449450
<i>Pseudanabaena</i> sp. PCC 7367	2504678603
<i>Rivularia</i> sp. PCC 7116	2510091675
<i>Rivularia</i> sp. PCC 7116	2510088382
<i>Rivularia</i> sp. PCC 7116	2510085420
<i>Rivularia</i> sp. PCC 7116	2510088390
<i>Stanieria cyanosphaera</i> PCC 7437	2503798495
<i>Stanieria cyanosphaera</i> PCC 7437	2503797946
<i>Synechococcus elongatus</i> PCC 6301	637617176
<i>Synechococcus elongatus</i> PCC 6301	637616974
<i>Synechococcus elongatus</i> PCC 7942	637798608
<i>Synechococcus elongatus</i> PCC 7942	637801057
<i>Synechococcus</i> sp. CC9311	638115516
<i>Synechococcus</i> sp. CC9311	638115714
<i>Synechococcus</i> sp. CC9605	637775206
<i>Synechococcus</i> sp. CC9605	637775571
<i>Synechococcus</i> sp. CC9902	637771946
<i>Synechococcus</i> sp. JA-2-3B'a(2-13)	637877088

Table S12. Cont.

Genome	IMG gene ID
<i>Synechococcus</i> sp. JA-3-3Ab	637873065
<i>Synechococcus</i> sp. KORDI-100 (genome sequencing)	2507317276
<i>Synechococcus</i> sp. KORDI-100 (genome sequencing)	2507318554
<i>Synechococcus</i> sp. KORDI-49 (genome sequencing)	2507312012
<i>Synechococcus</i> sp. KORDI-49 (genome sequencing)	2507311595
<i>Synechococcus</i> sp. KORDI-52 (genome sequencing)	2507314656
<i>Synechococcus</i> sp. KORDI-52 (genome sequencing)	2507314300
<i>Synechococcus</i> sp. PCC 6312	2509429872
<i>Synechococcus</i> sp. PCC 7002	641611173
<i>Synechococcus</i> sp. PCC 7002	641610736
<i>Synechococcus</i> sp. PCC 7502	2508688101
<i>Synechococcus</i> sp. RCC 307	640545609
<i>Synechococcus</i> sp. RCC 307	640546887
<i>Synechococcus</i> sp. RCC 307	640546888
<i>Synechococcus</i> ssp. WH 7803	640544242
<i>Synechococcus</i> sp. WH 7803	640543066
<i>Synechococcus</i> sp. WH 8016	2507491281
<i>Synechococcus</i> sp. WH 8016	2507494139
<i>Synechococcus</i> sp. WH 8109	2563723927
<i>Synechococcus</i> sp. WH8102	637445983
<i>Synechococcus</i> sp. WH8102	637445644
<i>Synechocystis</i> sp. GT-S, PCC 6803	651080864
<i>Synechocystis</i> sp. GT-S, PCC 6803	651078449
<i>Synechocystis</i> sp. GT-S, PCC 6803	651079136
<i>Synechocystis</i> sp. PCC 6803	2562388383
<i>Synechocystis</i> sp. PCC 6803	637012567
<i>Synechocystis</i> sp. PCC 6803	637010838
<i>Synechocystis</i> sp. PCC 6803	637010149
<i>Synechocystis</i> sp. PCC 6803	2562385977
<i>Synechocystis</i> sp. PCC 6803	2562386664
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515005552
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515003736
<i>Synechocystis</i> sp. PCC 6803 (updateJune2012)	2515003011
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514155456
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514153730
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514153043
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514152239
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514150513
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514149826
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524500806
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524498392
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524499079
<i>Thermosynechococcus elongatus</i> BP-1	637314644
<i>Trichodesmium erythraeum</i> IMS101	638106902
<i>Trichodesmium erythraeum</i> IMS101	638105617

Table S13. Genomes found which encode for diadenylyl cyclase domain, pfam02457.

Genome	IMG gene ID
<i>Acaryochloris marina</i> MBIC11017	641249533
<i>Anabaena cylindrica</i> PCC 7122	2504133984
<i>Anabaena</i> sp. 90	2562227039
<i>Anabaena variabilis</i> ATCC 29413	646566398
<i>Arthrospira platensis</i> NIES-39	650384908
<i>Calothrix</i> sp. PCC 6303	2504098332
<i>Calothrix</i> sp. PCC 7507	2505800822
<i>Chamaesiphon minutus</i> PCC 6605	2510441713
<i>Chroococcidiopsis thermalis</i> PCC 7203	2503615758
<i>Crinalium epipsammum</i> PCC 9333	2504682594
<i>Cyanobacterium aponinum</i> PCC 10605	2503746545
<i>Cyanobacterium</i> sp. UCYN-A	646530106
<i>Cyanobacterium stanieri</i> PCC 7202	2503365920
<i>Cyanobium gracile</i> PCC 6307	2508550596
<i>Cyanothece</i> sp. BH68, ATCC 51142	641675827
<i>Cyanothece</i> sp. PCC 7424 ^a	643479111; 643480644
<i>Cyanothece</i> sp. PCC 7425	643587668
<i>Cyanothece</i> sp. PCC 7822 ^a	648186113; 648188985
<i>Cyanothece</i> sp. PCC 8801	643473242
<i>Cyanothece</i> sp. PCC 8802	644978171
<i>Cylindrospermum stagnale</i> PCC 7417	2509767166
<i>Dactylococcopsis salina</i> PCC 8305	2509553184
<i>Geitlerinema</i> sp. PCC 7407	2503606490
<i>Gloeobacter kilaeensis</i> JS1 ^a	2558548320; 2558546364
<i>Gloeobacter violaceus</i> PCC 7421 ^a	637457478; 637461552
<i>Gloeocapsa</i> sp. PCC 7428	2503795281
<i>Halothece</i> sp. PCC 7418	2503635757
<i>Leptolyngbya</i> sp. JSC-1	2022829333
<i>Leptolyngbya</i> sp. JSC-1	2558009124
<i>Leptolyngbya</i> sp. PCC 7376	2503890144
<i>Microcoleus</i> sp. PCC 7113	2509437685
<i>Microcystis aeruginosa</i> NIES-843	641536533
<i>Nodularia spumigena</i> CCY9414	2563163779
<i>Nostoc azollae</i> 0708	648051935
<i>Nostoc punctiforme</i> PCC 73102	642604905
<i>Nostoc</i> sp. PCC 7107	2503739188
<i>Nostoc</i> sp. PCC 7120	637233382
<i>Nostoc</i> sp. PCC 7524	2509807676
<i>Oscillatoria acuminata</i> PCC 6304	2509424288
<i>Oscillatoria nigro-viridis</i> PCC 7112	2504089195
<i>Pleurocapsa</i> sp. PCC 7327	2509575646
<i>Prochlorococcus marinus</i> AS9601	640078913
<i>Prochlorococcus marinus marinus</i> CCMP 1375	637441525
<i>Prochlorococcus marinus</i> MIT 9211	641285462
<i>Prochlorococcus marinus</i> MIT 9215	640943836

Table S13. Cont.

Genome	IMG gene ID
<i>Prochlorococcus marinus</i> MIT 9301	640160785
<i>Prochlorococcus marinus</i> MIT 9303	640086502
<i>Prochlorococcus marinus</i> MIT 9312	637797627
<i>Prochlorococcus marinus</i> MIT 9313	637447751
<i>Prochlorococcus marinus</i> MIT 9515	640080864
<i>Prochlorococcus marinus</i> NATL1A	640084770
<i>Prochlorococcus marinus</i> NATL2A	637687519
<i>Prochlorococcus marinus pastoris</i> CCMP 1986	637450107
<i>Pseudanabaena</i> sp. PCC 7367	2504680447
<i>Rivularia</i> sp. PCC 7116	2510085993
<i>Stanieria cyanosphaera</i> PCC 7437	2503798451
<i>Synechococcus elongatus</i> PCC 6301	637616914
<i>Synechococcus elongatus</i> PCC 7942	637798669
<i>Synechococcus</i> sp. CC9311	638114619
<i>Synechococcus</i> sp. CC9605	637776218
<i>Synechococcus</i> sp. CC9902	637771578
<i>Synechococcus</i> sp. JA-2-3B'a(2-13)	637876044
<i>Synechococcus</i> sp. JA-3-3Ab	637874406
<i>Synechococcus</i> sp. KORDI-100 (genome sequencing)	2507317849
<i>Synechococcus</i> sp. KORDI-49 (genome sequencing)	2507312639
<i>Synechococcus</i> sp. KORDI-52 (genome sequencing)	2507315424
<i>Synechococcus</i> sp. PCC 6312	2509429429
<i>Synechococcus</i> sp. PCC 7002 ^a	641610108; 641613039
<i>Synechococcus</i> sp. PCC 7502	2508688717
<i>Synechococcus</i> sp. RCC 307	640545731
<i>Synechococcus</i> ssp. WH 7803	640543892
<i>Synechococcus</i> sp. WH 8016	2507492300
<i>Synechococcus</i> sp. WH 8109	2563724256
<i>Synechococcus</i> sp. WH8102	637445045
<i>Synechocystis</i> sp. GT-S, PCC 6803	651080633
<i>Synechocystis</i> sp. PCC 6803	2562388151
<i>Synechocystis</i> sp. PCC 6803	637012334
<i>Synechocystis</i> sp. PCC 6803 (update June 2012)	2515005301
<i>Synechocystis</i> sp. PCC 6803, GT-I	2514155225
<i>Synechocystis</i> sp. PCC 6803, PCC-N	2514152008
<i>Synechocystis</i> sp. PCC 6803, PCC-P	2524500575
<i>Thermosynechococcus elongatus</i> BP-1	637314392
<i>Trichodesmium erythraeum</i> IMS101	638107522

Note: ^a Genomes in IMG database possessing two gene copies encoding diadenylyl cyclase proteins.