

strain	accession number	gene annotation	gene description	protein accession number	location in the genome
1 1196Cyanothecce sp PCC8801 protein	CP001287.1 ACK65303.1	gene=PCC8801 1237	protein=photosystem q(b) protein	protein id=ACK65303.1	location=1288606..1289676
1 1946Cyanothecce sp PCC8801 protein	CP001287.1 ACK66053.1	gene=PCC8801 2016	protein=photosystem q(b) protein	protein id=ACK66053.1	location=2090110..2091180
2 14398Synecococcus sp RCC307 protein	CT978603.1 CAK28343.1	gene=psbA	protein=Photosystem II protein D1	protein id=CAK28343.1	location=complement(1279858..1280937)
2 20088Synecococcus sp RCC307 protein	CT978603.1 CAK28912.1	gene=psbA	protein=Photosystem II protein D1	protein id=CAK28912.1	location=complement(1742058..1743137)
2 21828Synecococcus sp RCC307 protein	CT978603.1 CAK29086.1	gene=psbA	protein=Photosystem II protein D1	protein id=CAK29086.1	location=1894037..1895116
5 1594Anabaena variabilis	CP000117.1 ABA21220.1	gene=Ava_1597	protein=Photosystem II reaction center protein PsbA/D1	protein id=ABA21220.1	location=complement(1971884..1972966)
ATCC29413 protein	CP000117.1 ABA22075.1	gene=Ava_2460	protein=Photosystem II reaction center protein PsbA/D1	protein id=ABA22075.1	location=complement(3053603..3054685)
5 2449Anabaena variabilis	CP000117.1 ABA23159.1	gene=Ava_3553	protein=Photosystem II reaction center protein PsbA/D1	protein id=ABA23159.1	location=complement(4422987..4424069)
ATCC29413 protein	AP011615.1 BA191950.1	gene=psbAIV	protein=photosystem II reaction center D1 protein	protein id=BA191950.1	location=complement(4171577..4172656)
6 4108Arthrospira platensis NIES-39 protein	AP011615.1 BA191955.1	gene=psbAIII	protein=photosystem II reaction center D1 protein	protein id=BA191955.1	location=complement(4178243..4179322)
6 4113Arthrospira platensis NIES-39 protein	AP011615.1 BA194323.1	gene=psbAII	protein=photosystem II reaction center D1 protein	protein id=BA194323.1	location=complement(6629459..6630538)
6 6481Arthrospira platensis NIES-39 protein	BA000022.2 BAA16586.1	gene=psbA2	protein=photosystem II D1 protein	protein id=BAA16586.1	location=7229..8311
7 85Synecocystis sp PCC6803 protein	BA000022.2 BAA18230.1	gene=psbA3	protein=photosystem II D1 protein	protein id=BAA18230.1	location=complement(1818915..1819997)
7 1651Synecocystis sp PCC6803 protein	BA000045.2 BAC88720.1	gene=psbA	protein=photosystem II protein D1	protein id=BAC88720.1	location=832184..833266
8 7798Synecococcus sp JA-3-3Ab protein	BA000045.2 BAC90263.1	gene=psbA	protein=photosystem II protein D1	protein id=BAC90263.1	location=2486614..2487696
8 23228Synecococcus sp JA-3-3Ab protein	BA000045.2 BAC91085.1	gene=psbA	protein=photosystem II protein D1	protein id=BAC91085.1	location=complement(3348383..3349465)
8 31438Synecococcus sp JA-3-3Ab protein	CP001291.1 ACK68639.1	gene=PCC7424 0169	protein=photosystem q(b) protein	protein id=ACK68639.1	location=186554..187624
9 1055Cyanothecce sp PCC7424 protein	CP001291.1 ACK69503.1	gene=PCC7424 1049	protein=photosystem q(b) protein	protein id=ACK69503.1	location=1150654..1151724
9 1028Cyanothecce sp PCC7424 protein	CP001291.1 ACK70715.1	gene=PCC7424 2293	protein=photosystem q(b) protein	protein id=ACK70715.1	location=complement(2562885..2563955)
9 2240Cyanothecce sp PCC7424 protein	CP000554.1 ABM77161.1	gene=psbA	protein=Photosystem II PsbA protein (D1)	protein id=ABM77161.1	location=406385..407461
10 405Prochlorococcus marinus str MIT9303 protein	CP000554.1 ABM78610.1	gene=P9303_18681	protein=Hypothetical protein	protein id=ABM78610.1	location=1629607..1630683
10 1853Prochlorococcus marinus str MIT9303 protein	BA000019.2 BAB75271.1	gene=psbAIV	protein=photosystem II protein D1	protein id=BAB75271.1	location=complement(4315437..4316519)
12 3568Nostoc sp PCC7120 protein	BA000019.2 BAB75426.1	gene=psbAII	protein=photosystem II protein D1	protein id=BAB75426.1	location=449998..4501080
12 3723Nostoc sp PCC7120 protein	BA000019.2 BAB76291.1	gene=psbAIII	protein=photosystem II protein D1	protein id=BAB76291.1	location=5489831..5490913
12 4587Nostoc sp PCC7120 protein	AP009552.1 BAG00844.1	gene=psbA1	protein=photosystem II D1 protein	protein id=BAG00844.1	location=complement(877533..878615)
14 1021Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG00860.1	gene=psbA2	protein=photosystem II D1 protein	protein id=BAG00860.1	location=891585..892667
14 1037Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG00873.1	gene=psbA3	protein=photosystem II D1 protein	protein id=BAG00873.1	location=900555..901637
14 1050Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG00902.1	gene=psbA4	protein=photosystem II D1 protein	protein id=BAG00902.1	location=925990..927072
14 1079Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG05636.1	gene=psbA5	protein=photosystem II D1 protein	protein id=BAG05636.1	location=5351373..5352455
14 5813Microcystis aeruginosa NIES-843 protein	CP002059.1 ADI63253.1	gene=Aazo_0830	protein=photosystem q(b) protein	protein id=ADI63253.1	location=879395..880477
15 584Nostoc azollae 0708 protein	CP002059.1 ADI63818.1	gene=Aazo_1652	protein=photosystem q(b) protein	protein id=ADI63818.1	location=1720331..1721413
15 1149Nostoc azollae 0708 protein	CP000828.1 ABW27180.1	gene=psbA	protein=photosystem II D1 protein PsbA	protein id=ABW27180.1	location=complement(2166714..2167796)
16 2089A.charyochloris marina MBIC11017 protein	CP000828.1 ABW27888.1	gene=psbA	protein=photosystem II D1 protein PsbA	protein id=ABW27888.1	location=complement(2928273..2929355)
16 2799A.charyochloris marina MBIC11017 protein	CP001037.1 ACC80861.1	gene=Npun_R2273	protein=photosystem q(b) protein	protein id=ACC80861.1	location=complement(2808705..2809787)
17 2057Nostoc punctiforme PCC73102 protein	CP001037.1 ACC81948.1	gene=Npun_F3544	protein=photosystem q(b) protein	protein id=ACC81948.1	location=4451534..4452616
17 3144Nostoc punctiforme PCC73102 protein	CP001037.1 ACC83520.1	gene=Npun_R5188	protein=photosystem q(b) protein	protein id=ACC83520.1	location=complement(6424030..6425112)

18	1665Synecococcus PCC6301 protein	elongatus	AP008231.1	BAD78356.1	gene=psbAII	protein=photosystem II D1 protein	protein id=BAD78356.1	location=185180..186262
18	6475Synecococcus PCC6301 protein	elongatus	AP008231.1	BAD78837.1	gene=psbAIII	protein=photosystem II D1 protein	protein id=BAD78837.1	location=complement(716582..717064)
19	7793Gloeobacter violaceus PCC7421 protein	violaceus	BA000045.2	BAC88720.1	gene=psbA	protein=photosystem II protein D1	protein id=BAC88720.1	location=832184..833266
19	2322Gloeobacter PCC7421 protein	violaceus	BA000045.2	BAC90263.1	gene=psbA	protein=photosystem II protein D1	protein id=BAC90263.1	location=2486614..2487696
19	3145Gloeobacter PCC7421 protein	violaceus	BA000045.2	BAC91085.1	gene=psbA	protein=photosystem II protein D1	protein id=BAC91085.1	location=complement(3348383..3349465)
20	1443Trichodesmium IMS101 protein	erythraeum	CP000393.1	ABG49673.1	gene=Tery 0182	protein=photosystem q(b) protein	protein id=ABG49673.1	location=269811..270872
20	1444Trichodesmium IMS101 protein	erythraeum	CP000393.1	ABG49674.1	gene=Tery 0183	protein=photosystem q(b) protein	protein id=ABG49674.1	location=271328..272389
20	4186Trichodesmium IMS101 protein	erythraeum	CP000393.1	ABG53717.1	gene=Tery 4763	protein=photosystem q(b) protein	protein id=ABG53717.1	location=complement(7315951..7317012)
21	3665Synecococcus sp PCC7803 protein	1891Cyanothecae sp PCC8801 protein	CT971583.1	CAK22792.1	gene=psbA	protein=Photosystem II protein D1	protein id=CAK22792.1	location=complement(384540..385619)
21	7905Synecococcus sp PCC7803 protein	156Cyanothecae sp PCC8801 protein	CT971583.1	CAK23216.1	gene=psbA	protein=Photosystem II protein D1	protein id=CAK23216.1	location=776911..777990
21	2084Synecococcus sp PCC7803 protein	156Cyanothecae sp PCC8801 protein	CT971583.1	CAK24510.1	gene=psbA	protein=Photosystem II protein D1	protein id=CAK24510.1	location=complement(1914146..1915225)
22	1535Synecococcus sp PCC7002 protein	1891Cyanothecae sp PCC8801 protein	CP000951.1	ACA98171.1	gene=psbA-II	protein=photosystem II D1 subunit PsbA-II (Qb protein)	protein id=ACA98171.1	location=complement(161801..162847)
22	1391Synecococcus sp PCC7002 protein	1891Cyanothecae sp PCC8801 protein	CP000951.1	ACA99409.1	gene=psbA	protein=photosystem q(b) protein	protein id=ACA99409.1	location=1489906..1490988
2	258Synecococcus sp RCC307 protein	1891Cyanothecae sp PCC8801 protein	CP001287.1	ACK64163.1	gene=PCC88010056	protein=photosystem II D2 protein (photosystem q(a) protein)	protein id=ACK64163.1	location=complement(58944..60002)
2	1694Synecococcus sp RCC307 protein	1891Cyanothecae sp PCC8801 protein	CP001287.1	ACK65998.1	gene=PCC8801960	protein=photosystem II D2 protein (photosystem q(a) protein)	protein id=ACK65998.1	location=2036321..2037379
3	1628Thermosynechococcus elongatus BP-1 protein	1628Thermosynechococcus elongatus BP-1 protein	CP000117.1	ABA20866.1	gene=psbD	protein=Photosystem II D2 protein	protein id=CAK27162.1	location=256888..257946
5	ATCC29413 protein	100Anabaena 2601 Anabaena ATCC29413 protein	CP000117.1	ABA22127.1	gene=psbDII	protein=Photosystem II D2 protein	protein id=CAK28598.1	location=1479498..1480556
6	1954A-throspira platensis NIES-39 protein	1954A-throspira platensis NIES-39 protein	AP011615.1	BA189796.1	gene=psbD	protein=Photosystem II reaction center D2 protein	protein id=BA189796.1	location=456131..457189
6	3148A-throspira platensis NIES-39 protein	3148A-throspira platensis NIES-39 protein	AP011615.1	BA190990.1	gene=psbD	protein=Photosystem II reaction center D2 protein	protein id=BA190990.1	location=1702500..1703558
7	19221Synecocystis sp PCC6803 protein	19221Synecocystis sp PCC6803 protein	BA000022.2	BAA17800.1	gene=psbD	protein=photosystem II D2 protein	protein id=BAA17800.1	location=1529297..1530352
7	2881Synecocystis sp PCC6803 protein	2881Synecocystis sp PCC6803 protein	BA000022.2	BAA10851.1	gene=psbD2	protein=photosystem II D2 protein	protein id=BA10851.1	location=complement(3106302..3107357)
9	5666Cyanothecae sp PCC7424 protein	5666Cyanothecae sp PCC7424 protein	CP001291.1	ACK69040.1	gene=PCC74240579	protein=photosystem II D2 protein (photosystem q(a) protein)	protein id=ACK69040.1	location=1968930..1969988
9	2902Cyanothecae sp PCC7424 protein	2902Cyanothecae sp PCC7424 protein	CP001291.1	ACK71377.1	gene=PCC74242974	protein=photosystem II D2 protein (photosystem q(a) protein)	protein id=ACK71377.1	location=3179356..3180414
12	4285Nostoc sp PCC7120 protein	4285Nostoc sp PCC7120 protein	BA000019.2	BAB75989.1	gene=psbD	protein=photosystem II D2 protein	protein id=BA179356..3180414	location=complement(1348840..1348998)
12	4543Nostoc sp PCC7120 protein	4543Nostoc sp PCC7120 protein	BA000019.2	BAB76247.1	gene=psbD	protein=photosystem II D2 protein	protein id=BA179356..3180414	location=3229780..3230838
14	1797Microcystis aeruginosa NIES-843 protein	1797Microcystis aeruginosa NIES-843 protein	AP009552.1	BAG01620.1	gene=psbD2	protein=photosystem II reaction center D2 protein	protein id=BAG01620.1	location=complement(636371..637429)
14	4112M. aeruginosa NIES-843 protein	4112M. aeruginosa NIES-843 protein	AP009552.1	BAG03938.1	gene=psbD1	protein=photosystem II reaction center D2 protein	protein id=BAG03938.1	location=complement(3317859..3318917)
15	747Nostoc azollae 0708 protein	747Nostoc azollae 0708 protein	CP002059.1	ADI63416.1	gene=Aazo 1059	protein=photosystem II D2 protein (photosystem q(a) protein)	protein id=ADI63416.1	location=5143731..5144786
15	2645Nostoc azollae 0708 protein	2645Nostoc azollae 0708 protein	CP002059.1	ADI65314.1	gene=Aazo 3778	protein=photosystem II D2 protein (photosystem q(a) protein)	protein id=ADI65314.1	location=5441150..5442205
16	1031A. chrysochloris MBIC11017 protein	1031A. chrysochloris MBIC11017 protein	CP000828.1	ABW26122.1	gene=psbD	protein=photosystem II D2 protein P-sbD	protein id=ABW26122.1	location=1613898..1614953
16	3977A. chrysochloris MBIC11017 protein	3977A. chrysochloris MBIC11017 protein	CP000828.1	ABW29065.1	gene=psbD	protein=photosystem II D2 protein P-sbD	protein id=ABW29065.1	location=complement(3780970..3782025)
17	3223Nostoc punctiforme PCC73102 protein	3223Nostoc punctiforme PCC73102 protein	CP001037.1	ACC82027.1	gene=Npun R3637	protein=photosystem II D2 protein (photosystem q(a) protein)	protein id=ACC82027.1	location=1131903..1132958
17	4110Nostoc punctiforme PCC73102 protein	4110Nostoc punctiforme PCC73102 protein	CP001037.1	ACC82914.1	gene=Npun F4553	protein=photosystem II D2 protein (photosystem q(a) protein)	protein id=ACC82914.1	location=3834890..3835945
18	8735Synecococcus PCC6301 protein	elongatus	AP008231.1	BAD79063.1	gene=psbDI	protein=photosystem II D2 protein	protein id=1050536..1051591	location=1050536..1051591
18	2447Synecococcus PCC6301 protein	elongatus	AP008231.1	BAD80638.1	gene=psbDII	protein=photosystem II D2 protein	protein id=ABW26122.1	location=complement(4131304..4132359)
21	16475Synecococcus sp PCC7803 protein	16475Synecococcus sp PCC7803 protein	CT971583.1	CAK24073.1	gene=psbD	protein=Photosystem II D2 protein	protein id=ABW29065.1	location=complement(4583337..4584392)
21	22398Synecococcus sp PCC7803 protein	22398Synecococcus sp PCC7803 protein	CT971583.1	CAK24665.1	gene=psbD	protein=Photosystem II D2 protein	protein id=ACC82914.1	location=5658199..5659254
22	15335Synecococcus sp PCC7002 protein	15335Synecococcus sp PCC7002 protein	CP000951.1	ACA99551.1	gene=psbD	protein=photosystem II reaction center D2 protein	protein id=BAD79063.1	location=complement(969581..970639)
22	2161Synecococcus sp PCC7002 protein	2161Synecococcus sp PCC7002 protein	CP000951.1	ACB00180.1	gene=psbD	protein=photosystem II D2 protein	protein id=2610565..2611623	location=1513257..1514312

strain 1 3242Cyanotheca sp PCC8801 protein	accession number CP001287.1 ACK67350.1	gene annotation gene=PCC8801 3382	gene description protein=transposase	protein accession number protein id=ACK67350.1	location in the genome location=complement(3528365..3529384)
1 3688Cyanotheca sp PCC8801 protein	CP001287.1 ACK67796.1	gene=PCC8801 3846	protein=transposase	protein id=ACK67796.1	location=complement(4025990..4027009)
5 261Anabaena variabilis ATCC29413 protein	CP000117.1 ABA19887.1	gene=Ava_0261	protein=transposase, IS4 family	protein id=ABA19887.1	location=334202..335224
5 3135Anabaena variabilis ATCC29413 protein	CP000117.1 ABA22761.1	gene=Ava_3153	protein=transposase, IS4 family	protein id=ABA22761.1	location=3914670..3915692
7 1078Synecocystis sp PCC6803 protein	BA000022.2 BAA17657.1	gene=sll1780	protein=transposase	protein id=BAA17657.1	location=complement(1200376..1201392)
7 1576Synecocystis sp PCC6803 protein	BA000022.2 BAA18155.1	gene=sll1255	protein=transposase	protein id=BAA18155.1	location=complement(1729012..1730028)
7 1793Synecocystis sp PCC6803 protein	BA000022.2 BAA18372.1	gene=sll1560	protein=transposase	protein id=BAA18372.1	location=complement(1970952..1971968)
7 1868Synecocystis sp PCC6803 protein	BA000022.2 BAA18447.1	gene=sll1635	protein=transposase	protein id=BAA18447.1	location=2048497..2049513
7 2098Synecocystis sp PCC6803 protein	BA000022.2 BAA10067.1	gene=sll1080	protein=transposase	protein id=BAA10067.1	location=2327013..2328029
7 3020Synecocystis sp PCC6803 protein	BA000022.2 BAA18731.1	gene=sll1474	protein=transposase	protein id=BAA18731.1	location=complement(3400402..3401418)
7 761Synecococcus sp JA-3-3Ab protein	BA000045.2 BAC88702.1	gene=gr0761	protein=gr0761	protein id=BAC88702.1	location=813826..814881
8 1195Synecococcus sp JA-3-3Ab protein	BA000045.2 BAC89136.1	gene=gll1195	protein=gll1195	protein id=BAC89136.1	location=complement(1271101..1272156)
17 1266Nostoc punctiforme PCC73102 protein	CP001037.1 ACC80069.1	gene=Npun_F1359	protein=transposase, IS4 family	protein id=ACC80069.1	location=1653292..1654314
17 1374Nostoc punctiforme PCC73102 protein	CP001037.1 ACC80177.1	gene=Npun_F1481	protein=transposase, IS4 family	protein id=ACC80177.1	location=1818320..1819342
17 2675Nostoc punctiforme PCC73102 protein	CP001037.1 ACC81479.1	gene=Npun_F2948	protein=transposase, IS4 family	protein id=ACC81479.1	location=3648697..3649719
17 3118Nostoc punctiforme PCC73102 protein	CP001037.1 ACC81922.1	gene=Npun_F3516	protein=transposase, IS4 family	protein id=ACC81922.1	location=4420430..4421452
17 3218Nostoc punctiforme PCC73102 protein	CP001037.1 ACC82022.1	gene=Npun_F3628	protein=transposase, IS4 family	protein id=ACC82022.1	location=4572908..4573930
19 761Gloeobacter violaceus PCC7421 protein	BA000045.2 BAC88702.1	gene=gr0761	protein=gr0761	protein id=BAC88702.1	location=813826..814881
19 1195Gloeobacter violaceus PCC7421 protein	BA000045.2 BAC89136.1	gene=gll1195	protein=gll1195	protein id=BAC89136.1	location=complement(1271101..1272156)
8 872Synecococcus sp JA-3-3Ab protein	BA000045.2 BAC88813.1	gene=gr0872	protein=gr0872	protein id=BAC88813.1	location=919913..920968
8 1093Synecococcus sp JA-3-3Ab protein	BA000045.2 BAC89034.1	gene=gll1093	protein=gll1093	protein id=BAC89034.1	location=complement(1171434..1172489)
8 2126Synecococcus sp JA-3-3Ab protein	BA000045.2 BAC90067.1	gene=gll2126	protein=gll2126	protein id=BAC90067.1	location=complement(2280085..2281140)
19 872Gloeobacter violaceus PCC7421 protein	BA000045.2 BAC88813.1	gene=gr0872	protein=gr0872	protein id=BAC88813.1	location=919913..920968
19 1093Gloeobacter violaceus PCC7421 protein	BA000045.2 BAC89034.1	gene=gll1093	protein=gll1093	protein id=BAC89034.1	location=complement(1171434..1172489)
19 2126Gloeobacter violaceus PCC7421 protein	BA000045.2 BAC90067.1	gene=gll2126	protein=gll2126	protein id=BAC90067.1	location=complement(2280085..2281140)
8 209Synecococcus sp JA-3-3Ab protein	BA000045.2 BAC88150.1	gene=gll0209	protein=gll0209	protein id=BAC88150.1	location=complement(202099..203154)
8 1105Synecococcus sp JA-3-3Ab protein	BA000045.2 BAC89046.1	gene=gll1105	protein=gll1105	protein id=BAC89046.1	location=complement(1185264..1186319)
19 209Gloeobacter violaceus PCC7421 protein	BA000045.2 BAC88150.1	gene=gll0209	protein=gll0209	protein id=BAC88150.1	location=complement(202099..203154)
19 1105Gloeobacter violaceus PCC7421 protein	BA000045.2 BAC89046.1	gene=gll1105	protein=gll1105	protein id=BAC89046.1	location=complement(1185264..1186319)
6 3383Arthrospira platensis NIES-39 protein	AP011615.1 BA191225.1	gene=NIES39 J01730	protein=putative transposase	protein id=BA191225.1	location=3451691..3452098
6 3707Arthrospira platensis NIES-39 protein	AP011615.1 BA191549.1	gene=NIES39 J05030	protein=putative transposase	protein id=BA191549.1	location=3760401..3760823
6 4464Arthrospira platensis NIES-39 protein	AP011615.1 BA192306.1	gene=NIES39 L01450	protein=putative transposase	protein id=BA192306.1	location=complement(4567432..4567854)
8 1611Synecococcus sp JA-3-3Ab protein	BA000045.2 BAC89552.1	gene=gll1611	protein=gll1611	protein id=BAC89552.1	location=complement(1728502..1728960)
8 1727Synecococcus sp JA-3-3Ab protein	BA000045.2 BAC89668.1	gene=gr1727	protein=gr1727	protein id=BAC89668.1	location=1833160..1833618
8 4074Synecococcus sp JA-3-3Ab protein	BA000045.2 BAC92017.1	gene=gr4076	protein=gr4076	protein id=BAC92017.1	location=4271569..4272027

16	1072A	charyochloris	marina	CP000828.1	ABW26163.1	gene=AM1_1124	protein=transposase, putative	protein_id=ABW26163.1	location=1099836..1100309
16	1257A	charyochloris	marina	CP000828.1	ABW26348.1	gene=AM1_1314	protein=transposase, putative	protein_id=ABW26348.1	location=1300852..1301325
16	3820A	charyochloris	marina	CP000828.1	ABW28908.1	gene=AM1_3923	protein=conserved hypothetical protein	protein_id=ABW28908.1	location=3974665..3975138
19	1611G	gloeobacter	violaceus	BA000045.2	BAC89552.1	gene=gll1611	protein=gll1611	protein_id=BAC89552.1	location=complement(1728502..1728960)
19	1727G	gloeobacter	violaceus	BA000045.2	BAC89668.1	gene=gfr1727	protein=gfr1727	protein_id=BAC89668.1	location=1833160..1833618
19	4074G	gloeobacter	violaceus	BA000045.2	BAC92017.1	gene=gfr4076	protein=gfr4076	protein_id=BAC92017.1	location=4271569..4272027
20	1086F	Trichodesmium	erythraeum	CP000393.1	ABG50616.1	gene=Tery_1283	protein=hypothetical protein	protein_id=ABG50616.1	location=1963943..1964374
20	1992F	Trichodesmium	erythraeum	CP000393.1	ABG51522.1	gene=Tery_2298	protein=hypothetical protein	protein_id=ABG51522.1	location=complement(3567237..3567647)
20	2498F	Trichodesmium	erythraeum	CP000393.1	ABG52028.1	gene=Tery_2854	protein=hypothetical protein	protein_id=ABG52028.1	location=complement(4445965..4446375)
20	2672F	Trichodesmium	erythraeum	CP000393.1	ABG52203.1	gene=Tery_3055	protein=hypothetical protein	protein_id=ABG52203.1	location=complement(4715752..4716162)
16	452A	charyochloris	marina	CP000828.1	ABW25543.1	gene=AM1_0490	protein=transposase, putative	protein_id=ABW25543.1	location=469494..469901
16	462A	charyochloris	marina	CP000828.1	ABW25553.1	gene=AM1_0500	protein=transposase, putative	protein_id=ABW25553.1	location=complement(477089..477496)
16	2018A	charyochloris	marina	CP000828.1	ABW27109.1	gene=AM1_2094	protein=conserved hypothetical protein	protein_id=ABW27109.1	location=2086211..2086618
5	798A	Anabaena	variabilis	ATCC29413	CP000117.1	gene=Ava_0800	protein=transposase	protein_id=ABA20424.1	location=981653..982036
5	1016A	Anabaena	variabilis	ATCC29413	CP000117.1	gene=Ava_1018	protein=transposase	protein_id=ABA20642.1	location=1228979..1229362
5	1362A	Anabaena	variabilis	ATCC29413	CP000117.1	gene=Ava_1364	protein=transposase	protein_id=ABA20988.1	location=complement(1680843..1681226)
5	2629A	Anabaena	variabilis	ATCC29413	CP000117.1	gene=Ava_2641	protein=transposase	protein_id=ABA22255.1	location=3269211..3269594
5	3298A	Anabaena	variabilis	ATCC29413	CP000117.1	gene=Ava_3317	protein=transposase	protein_id=ABA22924.1	location=4141228..4141611
5	3779A	Anabaena	variabilis	ATCC29413	CP000117.1	gene=Ava_3800	protein=transposase	protein_id=ABA23405.1	location=4735420..4735803
7	784S	Synechocystis	sp PCC6803	protein	BA000022.2	gene=sll1791	protein=transposase	protein_id=BAA17363.1	location=complement(852895..853281)
7	2741S	Synechocystis	sp PCC6803	protein	BA000022.2	gene=slr0799	protein=transposase	protein_id=BAA10711.1	location=3066429..3066752
12	16N	Nostoc	sp PCC7120	protein	BA000019.2	gene=al0016	protein=transposase	protein_id=BAB77540.1	location=complement(13138..13521)
12	2689N	Nostoc	sp PCC7120	protein	BA000019.2	gene=al2693	protein=transposase	protein_id=BAB74392.1	location=complement(3284646..3285029)
12	3606N	Nostoc	sp PCC7120	protein	BA000019.2	gene=al3610	protein=transposase	protein_id=BAB75309.1	location=4361124..4361507
12	4395N	Nostoc	sp PCC7120	protein	BA000019.2	gene=al4400	protein=transposase	protein_id=BAB76099.1	location=complement(5276131..5276514)
12	4433N	Nostoc	sp PCC7120	protein	BA000019.2	gene=al4438	protein=transposase	protein_id=BAB76137.1	location=5322370..5322753
12	4812N	Nostoc	sp PCC7120	protein	BA000019.2	gene=al4817	protein=transposase	protein_id=BAB76516.1	location=complement(5735861..5736244)
12	5152N	Nostoc	sp PCC7120	protein	BA000019.2	gene=al5157	protein=transposase	protein_id=BAB76856.1	location=6156759..6157142
15	3396N	Nostoc	azollae 0708	protein	CP002059.1	gene=Azo_4932	protein=transposase	protein_id=ADI68065.1	location=complement(5047600..5047983)
15	3550N	Nostoc	azollae 0708	protein	CP002059.1	gene=Azo_5164	protein=transposase	protein_id=ADI66219.1	location=5290637..5291020
15	3222N	Nostoc	azollae 0708	protein	CP002059.1	gene=Azo_0453	protein=transposase	protein_id=ADI62991.1	location=468637..469020
15	3126N	Nostoc	azollae 0708	protein	CP002059.1	gene=Azo_0452	protein=transposase	protein_id=ADI65795.1	location=461761..4617994
6	4008A	Throspira	platensis NIES-39	protein	AP011615.1	gene=NIES39_K02030	protein=putative transposase	protein_id=BAI91850.1	location=4067817..4068176
6	4011A	Throspira	platensis NIES-39	protein	AP011615.1	gene=NIES39_K02060	protein=putative transposase	protein_id=BAI91853.1	location=complement(4069017..4069376)
8	1612S	Synechococcus	sp JA-3-3Ab	protein	BA000045.2	gene=gll1612	protein=gll1612	protein_id=BAC89553.1	location=complement(1728993..1729379)
8	1726S	Synechococcus	sp JA-3-3Ab	protein	BA000045.2	gene=gfr1726	protein=gfr1726	protein_id=BAC89667.1	location=1832741..1833127
8	4073S	Synechococcus	sp JA-3-3Ab	protein	BA000045.2	gene=gfr4075	protein=gfr4075	protein_id=BAC92016.1	location=4271150..4271536
19	1612G	gloeobacter	violaceus	BA000045.2	BAC89553.1	gene=gll1612	protein=gll1612	protein_id=BAC89553.1	location=complement(1728993..1729379)
19	1726G	gloeobacter	violaceus	BA000045.2	BAC89667.1	gene=gfr1726	protein=gfr1726	protein_id=BAC89667.1	location=1832741..1833127
19	4073G	gloeobacter	violaceus	BA000045.2	BAC92016.1	gene=gfr4075	protein=gfr4075	protein_id=BAC92016.1	location=4271150..4271536

6	2123A	<i>Arthrospira platensis</i>	NIES-39	AP011615.1	BA189965.1	gene=NIES39	protein=putative transposase	protein id=BA189965.1	location=2128937..2129296
6	3647A	<i>Arthrospira platensis</i>	NIES-39	AP011615.1	BA191489.1	D05480 gene=NIES39	protein=putative transposase	protein id=BA191489.1	location=complement(3710514...3710873)
20	1085T	<i>Trichodesmium erythraeum</i>		CP000393.1	ABG50615.1	gene=Tery 1282	protein=putative transposase	protein id=ABG50615.1	location=1963528..1963887
10	1993T	<i>Trichodesmium erythraeum</i>		CP000393.1	ABG51523.1	gene=Tery 2299	protein=putative transposase	protein id=ABG51523.1	location=complement(3567724...3568083)
20	2499T	<i>Trichodesmium erythraeum</i>		CP000393.1	ABG52029.1	gene=Tery 2855	protein=putative transposase	protein id=ABG52029.1	location=complement(4446452...4446811)
10	2673T	<i>Trichodesmium erythraeum</i>		CP000393.1	ABG52204.1	gene=Tery 3056	protein=putative transposase	protein id=ABG52204.1	location=complement(4716239...4716598)
1	135C	<i>Cyanothece</i> sp PCC8801	protein	CP001287.1	ACK65460.1	gene=PCC8801 1400	protein=RNA-directed DNA polymerase (Reverse transcriptase)	protein id=ACK65460.1	location=1464222..1466045
1	284C	<i>Cyanothece</i> sp PCC8801	protein	CP001287.1	ACK65461.1	gene=PCC8801 1402	protein=RNA-directed DNA polymerase (Reverse transcriptase)	protein id=ACK65461.1	location=1466831..1468654
1	284F	<i>Cyanothece</i> sp PCC8801	protein	CP001287.1	ACK66954.1	gene=PCC8801 2962	protein=RNA-directed DNA polymerase (Reverse transcriptase)	protein id=ACK66954.1	location=3059473...3061296
1	284G	<i>Cyanothece</i> sp PCC8801	protein	CP001287.1	ACK66955.1	gene=PCC8801 2964	protein=RNA-directed DNA polymerase (Reverse transcriptase)	protein id=ACK66955.1	location=3062082...3063905
6	452A	<i>Arthrospira platensis</i>	NIES-39	AP011615.1	BA188294.1	gene=NIES39 A04500	protein=reverse transcriptase	protein id=BA188294.1	location=455495...457261
6	998A	<i>Arthrospira platensis</i>	NIES-39	AP011615.1	BA188840.1	gene=NIES39 B00830	protein=reverse transcriptase	protein id=BA188840.1	location=985697...987463
6	1914A	<i>Arthrospira platensis</i>	NIES-39	AP011615.1	BA189756.1	gene=NIES39 D03570	protein=reverse transcriptase	protein id=BA189756.1	location=complement(1937168...1938934)
6	4356A	<i>Arthrospira platensis</i>	NIES-39	AP011615.1	BA192198.1	gene=NIES39 L00370	protein=reverse transcriptase	protein id=BA192198.1	location=complement(4471823...4473589)
6	3007A	<i>Arthrospira platensis</i>	NIES-39	AP011615.1	BA192849.1	gene=NIES39 M00130	protein=reverse transcriptase	protein id=BA192849.1	location=complement(5088414...5090180)
6	6149A	<i>Arthrospira platensis</i>	NIES-39	AP011615.1	BA193991.1	gene=NIES39 P00130	protein=reverse transcriptase	protein id=BA193991.1	location=complement(6262865...6264631)
9	949C	<i>Cyanothece</i> sp PCC7424	protein	CP001291.1	ACK69423.1	gene=PCC7424 0968	protein=RNA-directed DNA polymerase (Reverse transcriptase)	protein id=ACK69423.1	location=complement(1073514...1075460)
9	3260C	<i>Cyanothece</i> sp PCC7424	protein	CP001291.1	ACK71735.1	gene=PCC7424 3336	protein=RNA-directed DNA polymerase (Reverse transcriptase)	protein id=ACK71735.1	location=3733467...3735413
14	585A	<i>Microcystis aeruginosa</i>	NIES-843	AP009552.1	BAG00407.1	gene=MAE 09850	protein=putative group II intron/matrix protein	protein id=BAG00407.1	location=511461...513305
14	1995A	<i>Microcystis aeruginosa</i>	NIES-843	AP009552.1	BAG01818.1	gene=MAE 19960	protein=RNA-directed DNA polymerase	protein id=BAG01818.1	location=complement(1788827...1790671)
14	620A	<i>Microcystis aeruginosa</i>	NIES-843	AP009552.1	BAG06027.1	gene=MAE 62050	protein=probable reverse transcriptase	protein id=BAG06027.1	location=5747312...5749156
20	196T	<i>Trichodesmium erythraeum</i>		CP000393.1	ABG49726.1	gene=Tery 0239	protein=RNA-directed DNA polymerase	protein id=ABG49726.1	location=373560...375467
20	2880T	<i>Trichodesmium erythraeum</i>		CP000393.1	ABG52411.1	gene=Tery 3305	protein=RNA-directed DNA polymerase	protein id=ABG52411.1	location=5068307...5070214
5	78A	<i>Anabaena variabilis</i>	ATCC29413	CP000117.1	ABA19704.1	gene=Ava 0078	protein=Gas vesicle protein GVPa	protein id=ABA19704.1	location=complement(100886...101101)
5	79A	<i>Anabaena variabilis</i>	ATCC29413	CP000117.1	ABA19705.1	gene=Ava 0079	protein=Gas vesicle protein GVPa	protein id=ABA19705.1	location=complement(101206...101421)
12	2250N	<i>Nostoc</i> sp PCC7120	protein	BA000019.2	BAB73952.1	gene=grpB	protein=gas vesicle protein	protein id=BAB73952.1	location=complement(2706132...2706347)
12	2251N	<i>Nostoc</i> sp PCC7120	protein	BA000019.2	BAB73953.1	gene=grpA	protein=gas vesicle protein	protein id=BAB73953.1	location=complement(2706452...2706667)
14	375A	<i>Microcystis aeruginosa</i>	NIES-843	AP009552.1	BAG03580.1	gene=grpA	protein=gas vesicle protein GvpAI	protein id=BAG03580.1	location=339385...3399600
14	3755A	<i>Microcystis aeruginosa</i>	NIES-843	AP009552.1	BAG03581.1	gene=grpAII	protein=gas vesicle protein GvpAII	protein id=BAG03581.1	location=3399955...3400170
14	3756A	<i>Microcystis aeruginosa</i>	NIES-843	AP009552.1	BAG03582.1	gene=grpAIII	protein=gas vesicle protein GvpAIII	protein id=BAG03582.1	location=3400500...3400715
5	1438A	<i>Anabaena variabilis</i>	ATCC29413	CP000117.1	ABA21064.1	gene=Ava 1441	protein=transposase, IS4 family	protein id=ABA21064.1	location=1783089...1783529
5	2475A	<i>Anabaena variabilis</i>	ATCC29413	CP000117.1	ABA22101.1	gene=Ava 2486	protein=transposase, IS4 family	protein id=ABA22101.1	location=complement(3082253...3082642)
12	15N	<i>Nostoc</i> sp PCC7120	protein	BA000019.2	BAB77539.1	gene=al10015	protein=transposase	protein id=BAB77539.1	location=complement(12738...13168)
12	3607N	<i>Nostoc</i> sp PCC7120	protein	BA000019.2	BAB75310.1	gene=al3611	protein=transposase	protein id=BAB75310.1	location=4361477...4361917
12	4394N	<i>Nostoc</i> sp PCC7120	protein	BA000019.2	BAB76098.1	gene=al14399	protein=transposase	protein id=BAB76098.1	location=complement(5275721...5276161)
12	443AN	<i>Nostoc</i> sp PCC7120	protein	BA000019.2	BAB76138.1	gene=al4439	protein=transposase	protein id=BAB76138.1	location=5322723...5323163
12	4811N	<i>Nostoc</i> sp PCC7120	protein	BA000019.2	BAB76515.1	gene=al14816	protein=transposase	protein id=BAB76515.1	location=complement(5735451...5735891)
12	5153N	<i>Nostoc</i> sp PCC7120	protein	BA000019.2	BAB76857.1	gene=al5158	protein=transposase	protein id=BAB76857.1	location=6157112...6157552
15	1014N	<i>Nostoc azollae</i>	0708	CP002059.1	ADI63683.1	gene=Aazo 1465	protein=transposase IS4 family protein	protein id=ADI63683.1	location=complement(1532502...1532957)
15	1308N	<i>Nostoc azollae</i>	0708	CP002059.1	ADI63977.1	gene=Aazo 1882	protein=transposase IS4 family protein	protein id=ADI63977.1	location=complement(1955990...1956445)
15	1612N	<i>Nostoc azollae</i>	0708	CP002059.1	ADI64281.1	gene=Aazo 2318	protein=transposase IS4 family protein	protein id=ADI64281.1	location=complement(2406642...2407097)

8	1184Synecococcus	sp	JA-3-3Ab	BA000045.2	BAC89125.1	gene=cpcB	protein=phycocyanin beta chain	protein id=BAC89125.1	location=1263334..1263852
	protein								
8	3216Synecococcus	sp	JA-3-3Ab	BA000045.2	BAC91158.1	gene=cpcB	protein=phycocyanin beta chain	protein id=BAC91158.1	location=3424755..3425273
	protein								
18	496Synecococcus	elongatus		AF008231.1	BAD78686.1	gene=cpcB	protein=phycocyanin beta subunit	protein id=BAD78686.1	location=complement(556210..556731)
	PC06301	protein							
18	301Synecococcus	elongatus		AF008231.1	BAD78691.1	gene=cpcB	protein=phycocyanin beta subunit	protein id=BAD78691.1	location=complement(559965..560486)
	PC06301	protein							
19	1184Gloeobacter	violaceus		BA000045.2	BAC89125.1	gene=cpcB	protein=phycocyanin beta chain	protein id=BAC89125.1	location=1263334..1263852
	PCC7421	protein							
19	3216Gloeobacter	violaceus		BA000045.2	BAC91158.1	gene=cpcB	protein=phycocyanin beta chain	protein id=BAC91158.1	location=3424755..3425273
	PCC7421	protein							
8	1185Synecococcus	sp	JA-3-3Ab	BA000045.2	BAC89126.1	gene=cpcA	protein=phycocyanin alpha chain	protein id=BAC89126.1	location=1263891..1264379
	protein								
8	3217Synecococcus	sp	JA-3-3Ab	BA000045.2	BAC91159.1	gene=cpcA	protein=phycocyanin alpha chain	protein id=BAC91159.1	location=3425312..3425800
	protein								
18	495Synecococcus	elongatus		AF008231.1	BAD78685.1	gene=cpcA	protein=phycocyanin alpha subunit	protein id=BAD78685.1	location=complement(555667..556158)
	PC06301	protein							
18	300Synecococcus	elongatus		AF008231.1	BAD78690.1	gene=cpcA	protein=phycocyanin alpha subunit	protein id=BAD78690.1	location=complement(559422..559913)
	PC06301	protein							
19	1185Gloeobacter	violaceus		BA000045.2	BAC89126.1	gene=cpcA	protein=phycocyanin alpha chain	protein id=BAC89126.1	location=1263891..1264379
	PCC7421	protein							
19	3217Gloeobacter	violaceus		BA000045.2	BAC91159.1	gene=cpcA	protein=phycocyanin alpha chain	protein id=BAC91159.1	location=3425312..3425800
	PCC7421	protein							
8	146Synecococcus	sp	JA-3-3Ab	BA000045.2	BAC88087.1	gene=cpcA	protein=phycocyanin alpha chain	protein id=BAC88087.1	location=137192..138595
	protein								
8	371Synecococcus	sp	JA-3-3Ab	BA000045.2	BAC88312.1	gene=gHr0146	protein=gHr0146	protein id=BAC88312.1	location=complement(385225..386628)
	protein								
19	146Gloeobacter	violaceus	PCC7421	BA000045.2	BAC88087.1	gene=gHr0146	protein=gHr0146	protein id=BAC88087.1	location=137192..138595
	protein								
19	371Gloeobacter	violaceus	PCC7421	BA000045.2	BAC88312.1	gene=gHr0371	protein=gHr0371	protein id=BAC88312.1	location=complement(385225..386628)
	protein								
8	1387Synecococcus	sp	JA-3-3Ab	BA000045.2	BAC89328.1	gene=gHr1387	protein=gHr1387	protein id=BAC89328.1	location=1491048..1491683
	protein								
8	2402Synecococcus	sp	JA-3-3Ab	BA000045.2	BAC90343.1	gene=gHr2402	protein=MotA/TolQ/ExxB proton channel protein	protein id=BAC90343.1	location=2561704..2562339
	protein						family		
19	1387Gloeobacter	violaceus	PCC7421	BA000045.2	BAC89328.1	gene=gHr1387	protein=gHr1387	protein id=BAC89328.1	location=1491048..1491683
	protein								
19	2402Gloeobacter	violaceus	PCC7421	BA000045.2	BAC90343.1	gene=gHr2402	protein=MotA/TolQ/ExxB proton channel protein	protein id=BAC90343.1	location=2561704..2562339
	protein						family		
8	1389Synecococcus	sp	JA-3-3Ab	BA000045.2	BAC89330.1	gene=gHr1389	protein=gHr1389	protein id=BAC89330.1	location=1492134..1492832
	protein								
8	2404Synecococcus	sp	JA-3-3Ab	BA000045.2	BAC90345.1	gene=gHr2404	protein=gHr2404	protein id=BAC90345.1	location=2562721..2563491
	protein								
19	1389Gloeobacter	violaceus	PCC7421	BA000045.2	BAC89330.1	gene=gHr1389	protein=gHr1389	protein id=BAC89330.1	location=1492134..1492832
	protein								
19	2404Gloeobacter	violaceus	PCC7421	BA000045.2	BAC90345.1	gene=gHr2404	protein=gHr2404	protein id=BAC90345.1	location=2562721..2563491
	protein								
8	2131Synecococcus	sp	JA-3-3Ab	BA000045.2	BAC90072.1	gene=gHr2131	protein=gHr2131	protein id=BAC90072.1	location=2283239..2283793
	protein								
8	2563Synecococcus	sp	JA-3-3Ab	BA000045.2	BAC90504.1	gene=gHr2563	protein=gHr2563	protein id=BAC90504.1	location=complement(2715339..2715977)
	protein								
19	2131Gloeobacter	violaceus	PCC7421	BA000045.2	BAC90072.1	gene=gHr2131	protein=gHr2131	protein id=BAC90072.1	location=2283239..2283793
	protein								
19	2563Gloeobacter	violaceus	PCC7421	BA000045.2	BAC90504.1	gene=gHr2563	protein=gHr2563	protein id=BAC90504.1	location=complement(2715339..2715977)
	protein								
8	3267Synecococcus	sp	JA-3-3Ab	BA000045.2	BAC91209.1	gene=gHr3268	protein=gHr3268	protein id=BAC91209.1	location=3470391..3470822
	protein								
8	3346Synecococcus	sp	JA-3-3Ab	BA000045.2	BAC91288.1	gene=gHr3347	protein=gHr3347	protein id=BAC91288.1	location=complement(3553745..3554176)
	protein								
19	3267Gloeobacter	violaceus	PCC7421	BA000045.2	BAC91209.1	gene=gHr3268	protein=gHr3268	protein id=BAC91209.1	location=3470391..3470822
	protein								
19	3346Gloeobacter	violaceus	PCC7421	BA000045.2	BAC91288.1	gene=gHr3347	protein=gHr3347	protein id=BAC91288.1	location=complement(3553745..3554176)
	protein								

8	151Synecococcus sp JA-3-3Ab protein	BA000045.2 BAC88092.1	gene=g10151	protein=g10151	protein id=BAC88092.1	location=complement(141822..143390)
8	006Synecococcus sp JA-3-3Ab protein	BA000045.2 BAC88547.1	gene=g10606	protein=g10606	protein id=BAC88547.1	location=complement(649344..650912)
8	298ISynecococcus sp JA-3-3Ab protein	BA000045.2 BAC90925.1	gene=g12984	protein=g12984	protein id=BAC90925.1	location=complement(3183107..3184675)
8	383ISynecococcus sp JA-3-3Ab protein	BA000045.2 BAC91777.1	gene=g13836	protein=g13836	protein id=BAC91777.1	location=complement(4039599..4041167)
8	4320Synecococcus sp JA-3-3Ab protein	BA000045.2 BAC92263.1	gene=g1r4322	protein=g1r4322	protein id=BAC92263.1	location=4553924..4555492
19	151Gloeobacter violaceus PCCT421 protein	BA000045.2 BAC88092.1	gene=g10151	protein=g10151	protein id=BAC88092.1	location=complement(141822..143390)
19	606Gloeobacter violaceus PCCT421 protein	BA000045.2 BAC88547.1	gene=g10606	protein=g10606	protein id=BAC88547.1	location=complement(649344..650912)
19	2984Gloeobacter violaceus PCCT421 protein	BA000045.2 BAC90925.1	gene=g12984	protein=g12984	protein id=BAC90925.1	location=complement(3183107..3184675)
19	3834Gloeobacter violaceus PCCT421 protein	BA000045.2 BAC91777.1	gene=g13836	protein=g13836	protein id=BAC91777.1	location=complement(4039599..4041167)
19	4320Gloeobacter violaceus PCCT421 protein	BA000045.2 BAC92263.1	gene=g1r4322	protein=g1r4322	protein id=BAC92263.1	location=4553924..4555492
8	469Synecococcus sp JA-3-3Ab protein	BA000045.2 BAC88410.1	gene=rfbA	protein=g1r4322	protein id=BAC88410.1	location=502369..503244
8	1783Synecococcus sp JA-3-3Ab protein	BA000045.2 BAC89724.1	gene=g11783	protein=g1r4322	protein id=BAC89724.1	location=complement(1897569..1898444)
19	469Gloeobacter violaceus PCCT421 protein	BA000045.2 BAC88410.1	gene=rfbA	protein=g11783	protein id=BAC88410.1	location=502369..503244
19	1783Gloeobacter violaceus PCCT421 protein	BA000045.2 BAC89724.1	gene=g11783	protein=g11783	protein id=BAC89724.1	location=complement(1897569..1898444)
8	518Synecococcus sp JA-3-3Ab protein	BA000045.2 BAC88459.1	gene=g10518	protein=g10518	protein id=BAC88459.1	location=complement(556855..557763)
8	2561Synecococcus sp JA-3-3Ab protein	BA000045.2 BAC90502.1	gene=g12561	protein=g12561	protein id=BAC90502.1	location=complement(2714074..2714982)
8	4190Synecococcus sp JA-3-3Ab protein	BA000045.2 BAC92133.1	gene=g1r4192	protein=g1r4192	protein id=BAC92133.1	location=4387734..4388642
19	518Gloeobacter violaceus PCCT421 protein	BA000045.2 BAC88459.1	gene=g10518	protein=g10518	protein id=BAC88459.1	location=complement(556855..557763)
19	2561Gloeobacter violaceus PCCT421 protein	BA000045.2 BAC90502.1	gene=g12561	protein=g12561	protein id=BAC90502.1	location=complement(2714074..2714982)
19	4190Gloeobacter violaceus PCCT421 protein	BA000045.2 BAC92133.1	gene=g1r4192	protein=g1r4192	protein id=BAC92133.1	location=4387734..4388642
8	519Synecococcus sp JA-3-3Ab protein	BA000045.2 BAC88460.1	gene=g10519	protein=g10519	protein id=BAC88460.1	location=complement(557792..558193)
8	2562Synecococcus sp JA-3-3Ab protein	BA000045.2 BAC90503.1	gene=g12562	protein=g12562	protein id=BAC90503.1	location=complement(2715011..2715364)
8	4189Synecococcus sp JA-3-3Ab protein	BA000045.2 BAC92132.1	gene=g1r4191	protein=g1r4191	protein id=BAC92132.1	location=4387304..4387705
19	519Gloeobacter violaceus PCCT421 protein	BA000045.2 BAC88460.1	gene=g10519	protein=g10519	protein id=BAC88460.1	location=complement(557792..558193)
19	2562Gloeobacter violaceus PCCT421 protein	BA000045.2 BAC90503.1	gene=g12562	protein=g12562	protein id=BAC90503.1	location=complement(2715011..2715364)
19	4189Gloeobacter violaceus PCCT421 protein	BA000045.2 BAC92132.1	gene=g1r4191	protein=g1r4191	protein id=BAC92132.1	location=4387304..4387705
8	914Synecococcus sp JA-3-3Ab protein	BA000045.2 BAC88855.1	gene=g10914	protein=g10914	protein id=BAC88855.1	location=complement(969401..969739)
8	1495Synecococcus sp JA-3-3Ab protein	BA000045.2 BAC89436.1	gene=g11495	protein=g11495	protein id=BAC89436.1	location=complement(1608188..1608526)
19	914Gloeobacter violaceus PCCT421 protein	BA000045.2 BAC88855.1	gene=g10914	protein=g10914	protein id=BAC88855.1	location=complement(969401..969739)
19	1495Gloeobacter violaceus PCCT421 protein	BA000045.2 BAC89436.1	gene=g11495	protein=g11495	protein id=BAC89436.1	location=complement(1608188..1608526)
8	1530Synecococcus sp JA-3-3Ab protein	BA000045.2 BAC89471.1	gene=g1r1530	protein=g1r1530	protein id=BAC89471.1	location=1650902..1651885
8	2846Synecococcus sp JA-3-3Ab protein	BA000045.2 BAC90787.1	gene=g1r2846	protein=g1r2846	protein id=BAC90787.1	location=3032535..3033518
19	1530Gloeobacter violaceus PCCT421 protein	BA000045.2 BAC89471.1	gene=g1r1530	protein=g1r1530	protein id=BAC89471.1	location=1650902..1651885
19	2846Gloeobacter violaceus PCCT421 protein	BA000045.2 BAC90787.1	gene=g1r2846	protein=g1r2846	protein id=BAC90787.1	location=3032535..3033518
5	ATCC29413 protein	CP000117.1 ABA23972.1	gene=Ava_4374	protein=conserved	protein id=ABA23972.1	location=5481965..5482207
5	4346Anabaena protein	CP000117.1 ABA23973.1	gene=Ava_4375	protein=conserved	protein id=ABA23973.1	location=5482353..5482589
12	1930Nostoc sp PCCT120 protein	BA000019.2 BAB73632.1	gene=asl1933	protein=asl1933	protein id=BAB73632.1	location=complement(2319911..2320144)
12	1932Nostoc sp PCCT120 protein	BA000019.2 BAB73634.1	gene=asl1935	protein=asl1935	protein id=BAB73634.1	location=complement(2320597..2320830)

7 42Synchocystis sp PCC6803 protein	BA000022.2 BAA16620.1	gene=sll1397	protein=transposase	protein id=BAA16620.1	location=complement(52260..53108)
7 348Synchocystis sp PCC6803 protein	BA000022.2 BAA16927.1	gene=sllr1075	protein=transposase	protein id=BAA16927.1	location=379065..379913
7 992Synchocystis sp PCC6803 protein	BA000022.2 BAA17571.1	gene=sllr1357	protein=transposase	protein id=BAA17571.1	location=1098323..1099171
7 1466Synchocystis sp PCC6803 protein	BA000022.2 BAA18045.1	gene=sll11998	protein=transposase	protein id=BAA18045.1	location=complement(1623723..1624571)
7 2196Synchocystis sp PCC6803 protein	BA000022.2 BAA10164.1	gene=sllr0352	protein=transposase	protein id=BAA10164.1	location=2443999..2444847
7 2266Synchocystis sp PCC6803 protein	BA000022.2 BAA10234.1	gene=sllr0230	protein=transposase	protein id=BAA10234.1	location=2534106..2534954
7 2772Synchocystis sp PCC6803 protein	BA000022.2 BAA10742.1	gene=sllr0704	protein=transposase	protein id=BAA10742.1	location=3097436..3098284
7 3107Synchocystis sp PCC6803 protein	BA000022.2 BAA18818.1	gene=sll0431	protein=transposase	protein id=BAA18818.1	location=complement(3512315..3513163)
14 742Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG00564.1	gene=MAE 07420	protein=transposase	protein id=BAG00564.1	location=644876..645724
14 950Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG00773.1	gene=MAE 09510	protein=transposase	protein id=BAG00773.1	location=complement(824160..825008)
14 1410Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG01233.1	gene=MAE 14110	protein=transposase	protein id=BAG01233.1	location=1255936..1256784
14 1441Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG01264.1	gene=MAE 14420	protein=transposase	protein id=BAG01264.1	location=1286000..1286848
14 2041Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG01864.1	gene=MAE 20420	protein=transposase	protein id=BAG01864.1	location=complement(1829857..1830705)
14 2400Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG02223.1	gene=MAE 24010	protein=transposase	protein id=BAG02223.1	location=complement(2168310..2169158)
14 2464Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG02287.1	gene=MAE 24650	protein=transposase	protein id=BAG02287.1	location=2228421..2229269
14 2819Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG02642.1	gene=MAE 28200	protein=transposase	protein id=BAG02642.1	location=complement(2567857..2568705)
14 3227Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG03052.1	gene=MAE 32300	protein=transposase	protein id=BAG03052.1	location=2946333..2947181
14 3632Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG03458.1	gene=MAE 36360	protein=transposase	protein id=BAG03458.1	location=complement(3279361..3280209)
14 3837Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG03663.1	gene=MAE 38410	protein=transposase	protein id=BAG03663.1	location=complement(3471789..3472637)
14 3892Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG03718.1	gene=MAE 38960	protein=transposase	protein id=BAG03718.1	location=complement(3566138..3566986)
14 4513Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG04339.1	gene=MAE 45170	protein=transposase	protein id=BAG04339.1	location=4154465..4155313
14 5113Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG04937.1	gene=MAE 51150	protein=transposase	protein id=BAG04937.1	location=4697263..4698111
14 5172Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG04996.1	gene=MAE 51740	protein=transposase	protein id=BAG04996.1	location=complement(4746045..4746893)
14 5381Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG05204.1	gene=MAE 53820	protein=transposase	protein id=BAG05204.1	location=complement(4944696..4945544)
14 5503Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG05327.1	gene=MAE 55050	protein=transposase	protein id=BAG05327.1	location=complement(5080677..5081525)
14 5660Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG05484.1	gene=MAE 56620	protein=transposase	protein id=BAG05484.1	location=complement(5221132..5221980)
14 5984Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG05807.1	gene=MAE 59850	protein=transposase	protein id=BAG05807.1	location=5513511..5514359
1 568Cyanothecae sp PCC8801 protein	CP001287.1 ACK64675.1	gene=PCC8801 0587	protein=transposase	protein id=ACK64675.1	location=615742..616155
1 813Cyanothecae sp PCC8801 protein	CP001287.1 ACK64920.1	gene=PCC8801 0839	protein=transposase	protein id=ACK64920.1	location=complement(878858..879271)
1 1294Cyanothecae sp PCC8801 protein	CP001287.1 ACK65401.1	gene=PCC8801 1338	protein=transposase	protein id=ACK65401.1	location=1393277..1393690
9 1699Cyanothecae sp PCC7424 protein	CP001291.1 ACK68643.1	gene=PCC7424 0173	protein=transposase	protein id=ACK68643.1	location=191551..191970
9 14000Cyanothecae sp PCC7424 protein	CP001291.1 ACK69875.1	gene=PCC7424 1431	protein=transposase	protein id=ACK69875.1	location=complement(1574976..1575395)
9 2731Cyanothecae sp PCC7424 protein	CP001291.1 ACK71206.1	gene=PCC7424 2799	protein=transposase	protein id=ACK71206.1	location=3111086..3111505

3	134TThermosynechococcus elongatus BP-1 protein	BA000039.2	BAC07687.1	gene=tlr0134	protein=tlr0134	protein id=BAC07687.1	location=114353..115579
3	205TThermosynechococcus elongatus BP-1 protein	BA000039.2	BAC07758.1	gene=tl0205	protein=tl0205	protein id=BAC07758.1	location=complement(185743..186915)
3	222TThermosynechococcus elongatus BP-1 protein	BA000039.2	BAC07775.1	gene=tl0222	protein=tl0222	protein id=BAC07775.1	location=complement(202481..203653)
3	273TThermosynechococcus elongatus BP-1 protein	BA000039.2	BAC07826.1	gene=tlr0273	protein=tlr0273	protein id=BAC07826.1	location=257476..258648
3	405TThermosynechococcus elongatus BP-1 protein	BA000039.2	BAC07958.1	gene=tlr0406	protein=tlr0406	protein id=BAC07958.1	location=403394..404566
3	511TThermosynechococcus elongatus BP-1 protein	BA000039.2	BAC08064.1	gene=tl0512	protein=tl0512	protein id=BAC08064.1	location=complement(508223..509395)
3	605TThermosynechococcus elongatus BP-1 protein	BA000039.2	BAC08156.1	gene=tl0604	protein=tl0604	protein id=BAC08156.1	location=complement(611416..612588)
3	685TThermosynechococcus elongatus BP-1 protein	BA000039.2	BAC08238.1	gene=tl0687	protein=tl0687	protein id=BAC08238.1	location=complement(706573..707799)
3	1125Thermosynechococcus elongatus BP-1 protein	BA000039.2	BAC08679.1	gene=tlr1127	protein=tlr1127	protein id=BAC08679.1	location=1159903..1161090
3	130Thermosynechococcus elongatus BP-1 protein	BA000039.2	BAC08704.1	gene=tl01152	protein=tl01152	protein id=BAC08704.1	location=complement(1183861..1185033)
3	1372Thermosynechococcus elongatus BP-1 protein	BA000039.2	BAC08926.1	gene=tl01374	protein=tl01374	protein id=BAC08926.1	location=complement(1441028..1442200)
3	2177Thermosynechococcus elongatus BP-1 protein	BA000039.2	BAC09731.1	gene=tlr2179	protein=tlr2179	protein id=BAC09731.1	location=2263217..2264389
3	260Thermosynechococcus elongatus BP-1 protein	BA000039.2	BAC09734.1	gene=tlr2182	protein=tlr2182	protein id=BAC09734.1	location=2266280..2267452
3	267Thermosynechococcus elongatus BP-1 protein	BA000039.2	BAC09751.1	gene=tlr2199	protein=tlr2199	protein id=BAC09751.1	location=2283094..2284266
3	274Thermosynechococcus elongatus BP-1 protein	BA000039.2	BAC09928.1	gene=tlr2376	protein=tlr2376	protein id=BAC09928.1	location=2486239..2487411
3	1575Microcystis aeruginosa NIES-843 protein	AP009552.1	BAG01398.1	gene=MAE_15760	protein=transposase	protein id=BAG01398.1	location=1415997..1417040
3	2940Microcystis aeruginosa NIES-843 protein	AP009552.1	BAG02765.1	gene=MAE_29430	protein=transposase	protein id=BAG02765.1	location=2681481..2682524
3	3611Athrospira platensis NIES-39 protein	AP011615.1	BA191453.1	gene=NIES39_304060	protein=transposase	protein id=BA191453.1	location=complement(3681424..3681828)
3	5325Athrospira platensis NIES-39 protein	AP011615.1	BA193167.1	gene=NIES39_N00560	protein=transposase	protein id=BA193167.1	location=5473561..5473965
9	1437Cyanothecae sp FCC7424 protein	CP001291.1	ACK69912.1	gene=PCC7424_1476	protein=transposase	protein id=ACK69912.1	location=complement(1620393..1620800)
6	1071Athrospira platensis NIES-39 protein	AP011615.1	BA18913.1	gene=PCC7424_3282	protein=transposase	protein id=ACK73630.1	location=complement(5859213..5859620)
6	5156Athrospira platensis NIES-39 protein	AP011615.1	BA192998.1	gene=NIES39_C00430	protein=hyposhical protein	protein id=BA18913.1	location=complement(1065361..1066566)
14	1122Microcystis aeruginosa NIES-843 protein	AP009552.1	BAG00945.1	gene=NIES39_M01610	protein=hyposhical protein	protein id=BA192998.1	location=5245558..5246763
14	4916Microcystis aeruginosa NIES-843 protein	AP009552.1	BAG04740.1	gene=MAE_11230	protein=hyposhical protein	protein id=BAG00945.1	location=complement(974280..975422)
1	623Cyanothecae sp PCC8801 protein	CP001287.1	ACK64730.1	gene=MAE_49180	protein=hyposhical protein	protein id=BAG04740.1	location=4504901..4505998
1	1928Cyanothecae sp PCC8801 protein	CP001287.1	ACK66035.1	gene=PCC8801_0643	protein=transposase	protein id=ACK64730.1	location=complement(670640..671638)
14	1070Microcystis aeruginosa NIES-843 protein	AP009552.1	BAG00893.1	gene=PCC8801_1997	protein=transposase	protein id=ACK66035.1	location=2072306..2073304
14	1388Microcystis aeruginosa NIES-843 protein	AP009552.1	BAG01211.1	gene=MAE_10710	protein=transposase	protein id=BAG00893.1	location=complement(918742..919740)
14	1970Microcystis aeruginosa NIES-843 protein	AP009552.1	BAG01802.1	gene=MAE_19800	protein=transposase	protein id=BAG01211.1	location=1239551..1240408
14	2026Microcystis aeruginosa NIES-843 protein	AP009552.1	BAG01849.1	gene=MAE_20270	protein=transposase	protein id=BAG01802.1	location=1775638..1776636
14	2223Microcystis aeruginosa NIES-843 protein	AP009552.1	BAG02046.1	gene=MAE_22240	protein=transposase and inactivated derivatives	protein id=BAG01849.1	location=complement(1817962..1818960)
14	2341Microcystis aeruginosa NIES-843 protein	AP009552.1	BAG02164.1	gene=MAE_23420	protein=transposase	protein id=BAG02046.1	location=1994117..1994884
14	2740Microcystis aeruginosa NIES-843 protein	AP009552.1	BAG02572.1	gene=MAE_27500	protein=transposase	protein id=BAG02164.1	location=2108561..2109559
14	2882Microcystis aeruginosa NIES-843 protein	AP009552.1	BAG02707.1	gene=MAE_28850	protein=transposase	protein id=BAG02572.1	location=complement(2481279..2482277)
14	3636Microcystis aeruginosa NIES-843 protein	AP009552.1	BAG03462.1	gene=MAE_36400	protein=transposase	protein id=BAG02707.1	location=complement(2629909..2630907)
14	4403Microcystis aeruginosa NIES-843 protein	AP009552.1	BAG04229.1	gene=MAE_44070	protein=transposase	protein id=BAG03462.1	location=3282649..3283647
14	6154Microcystis aeruginosa NIES-843 protein	AP009552.1	BAG05977.1	gene=MAE_61550	protein=transposase	protein id=BAG04229.1	location=complement(4060904..4061902)
						protein id=BAG05977.1	location=5699143..5700141

9 1181Cyanothecce sp PCC7424 protein	CP001291.1 ACK69656.1	gene=PCC7424 1208	protein=Insertion element protein	protein id=ACK69656.1	location=join(1322136..1322465..1322467..1322829)
9 2458Cyanothecce sp PCC7424 protein	CP001291.1 ACK70933.1	gene=PCC7424 2516	protein=Insertion element protein	protein id=ACK70933.1	location=join(2799135..2799464..2799466..2799828)
9 5076Cyanothecce sp PCC7424 protein	CP001291.1 ACK73551.1	gene=PCC7424 5203	protein=Insertion element protein	protein id=ACK73551.1	location=complement(join(5775088..5775450..5775452..5775781))
16 695Acharyochloris marina	CP000828.1 ABW25786.1	gene=AM1 0742	protein=IS1 transposase	protein id=ABW25786.1	location=720392..721081
16 3378Acharyochloris marina	CP000828.1 ABW28467.1	gene=AM1 3475	protein=IS1 transposase	protein id=ABW28467.1	location=complement(3510465..3511154)
16 5827Acharyochloris marina	CP000828.1 ABW30914.1	gene=AM1 5978	protein=IS1 transposase	protein id=ABW30914.1	location=6055468..6056157
1 1064Cyanothecce sp PCC8801 protein	CP001287.1 ACK65171.1	gene=AM1 4201	protein=IS1 transposase	protein id=ACK65171.1	location=complement(1157486..1158697)
1 4021Cyanothecce sp PCC8801 protein	CP001287.1 ACK68129.1	gene=PCC8801 1098	protein=transposase, IS605 OrfB family	protein id=ACK68129.1	location=4404944..4406155
1 4249Cyanothecce sp PCC8801 protein	CP001287.1 ACK68357.1	gene=PCC8801 4201	protein=transposase, IS605 OrfB family	protein id=ACK68357.1	location=complement(4663329..4664540)
1 4435Cyanothecce sp PCC8801 protein	BA000039.2 BAC07810.1	gene=tlr0257	protein=tlr0257	protein id=BAC07810.1	location=241585..242763
3 257Thermosynechococcus elongatus BP-1 protein	BA000039.2 BAC07953.1	gene=tlr0401	protein=tlr0401	protein id=BAC07953.1	location=397671..398849
3 400Thermosynechococcus elongatus BP-1 protein	BA000039.2 BAC08932.1	gene=tlr1380	protein=tlr1380	protein id=BAC08932.1	location=1447751..1448929
3 1378Thermosynechococcus elongatus BP-1 protein	BA000039.2 BAC09790.1	gene=tlr2238	protein=tlr2238	protein id=BAC09790.1	location=2320881..2322059
3 2236Thermosynechococcus elongatus BP-1 protein	CP000828.1 ABW25309.1	gene=AM1 0223	protein=transposase	protein id=ABW25309.1	location=complement(219734..221044)
16 218Acharyochloris marina	CP000828.1 ABW25587.1	gene=AM1 0535	protein=transposase	protein id=ABW25587.1	location=515940..517250
16 496Acharyochloris marina	CP000828.1 ABW25728.1	gene=AM1 0681	protein=transposase	protein id=ABW25728.1	location=666645..667955
16 637Acharyochloris marina	CP000828.1 ABW26007.1	gene=AM1 0965	protein=transposase	protein id=ABW26007.1	location=940229..941539
16 916Acharyochloris marina	CP000828.1 ABW26164.1	gene=AM1 1125	protein=transposase	protein id=ABW26164.1	location=1100397..1101707
16 1073Acharyochloris marina	CP000828.1 ABW26945.1	gene=AM1 1927	protein=transposase	protein id=ABW26945.1	location=complement(1922983..1924293)
16 1854Acharyochloris marina	CP000828.1 ABW27406.1	gene=AM1 2396	protein=transposase	protein id=ABW27406.1	location=complement(2402873..2404183)
16 2315Acharyochloris marina	CP000828.1 ABW27597.1	gene=AM1 2590	protein=transposase	protein id=ABW27597.1	location=2629004..2630314
16 2506Acharyochloris marina	CP000828.1 ABW27600.1	gene=AM1 2593	protein=transposase	protein id=ABW27600.1	location=complement(2631483..2632793)
16 2509Acharyochloris marina	CP000828.1 ABW28619.1	gene=AM1 3629	protein=transposase	protein id=ABW28619.1	location=complement(3687534..3688844)
16 3530Acharyochloris marina	CP000828.1 ABW28691.1	gene=AM1 3701	protein=transposase	protein id=ABW28691.1	location=complement(3758553..3759863)
16 3602Acharyochloris marina	CP000828.1 ABW28909.1	gene=AM1 3924	protein=transposase	protein id=ABW28909.1	location=3975226..3976536
16 3821Acharyochloris marina	CP000828.1 ABW29211.1	gene=AM1 4231	protein=transposase	protein id=ABW29211.1	location=4250628..4251938
16 4123Acharyochloris marina	CP000828.1 ABW30139.1	gene=AM1 5177	protein=transposase	protein id=ABW30139.1	location=complement(5241022..5242332)
16 5052Acharyochloris marina	CP000828.1 ABW30247.1	gene=AM1 5286	protein=transposase	protein id=ABW30247.1	location=5352546..5353856
16 5160Acharyochloris marina	CP000828.1 ABW30626.1	gene=AM1 5679	protein=transposase	protein id=ABW30626.1	location=complement(5743964..5745274)
16 5539Acharyochloris marina	CP000828.1 ABW31193.1	gene=AM1 6261	protein=transposase	protein id=ABW31193.1	location=complement(6336950..6338260)
16 6106Acharyochloris marina	CP001037.1 ACC81227.1	gene=Npun F2690	protein=Transposase-like protein	protein id=ACC81227.1	location=3341372..3342682
17 2423Nostoc punctiforme PCC73102 protein	CP001037.1 ACC81643.1	gene=Npun F3186	protein=Transposase-like protein	protein id=ACC81643.1	location=3966579..3967889
17 2839Nostoc punctiforme PCC73102 protein	CP001037.1 ACC81778.1	gene=Npun F3348	protein=Transposase-like protein	protein id=ACC81778.1	location=4168700..4170010
17 2974Nostoc punctiforme PCC73102 protein	CP001037.1 ACC83796.1	gene=Npun F5490	protein=Transposase-like protein	protein id=ACC83796.1	location=6779978..6781288
17 4991Nostoc punctiforme PCC73102 protein	CP001287.1 ACK65860.1	gene=PCC8801 1816	protein=transposase, IS204/IS1001/IS1096/IS1165 family	protein id=ACK65860.1	location=complement(1898016..1899242)
1 1753Cyanothecce sp PCC8801 protein	CP001287.1 ACK67474.1	gene=PCC8801 3509	protein=transposase, IS204/IS1001/IS1096/IS1165 family	protein id=ACK67474.1	location=3661150..3662376
1 3865Cyanothecce sp PCC8801 protein	CP001287.1 ACK67973.1	gene=PCC8801 4034	protein=transposase, IS204/IS1001/IS1096/IS1165 family	protein id=ACK67973.1	location=complement(4225337..4226563)
14 2469Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG02292.1	gene=MAE 24700	protein=transposase	protein id=BAG02292.1	location=complement(2233792..2234811)
14 2696Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG02519.1	gene=MAE 26970	protein=transposase	protein id=BAG02519.1	location=complement(2436880..2438094)

6	1824A <throspira platensis<="" th=""> <td>NIES-39</td> <td>AP011615.1</td> <td>BAIS9666.1</td> <td>gene=NIDS39 D02460</td> <td>protein=putative transposase</td> <td>protein_id=BAIS9666.1</td> <td>location=complement(1848140..1848499)</td> </throspira>	NIES-39	AP011615.1	BAIS9666.1	gene=NIDS39 D02460	protein=putative transposase	protein_id=BAIS9666.1	location=complement(1848140..1848499)
6	4845A <throspira platensis<="" th=""> <td>NIES-39</td> <td>AP011615.1</td> <td>BAI92687.1</td> <td>gene=NIDS39 L05300</td> <td>protein=putative transposase</td> <td>protein_id=BAI92687.1</td> <td>location=4909208..4909567</td> </throspira>	NIES-39	AP011615.1	BAI92687.1	gene=NIDS39 L05300	protein=putative transposase	protein_id=BAI92687.1	location=4909208..4909567
16	451A <tharyochloris< th=""> <td>marina</td> <td>CP000828.1</td> <td>ABW25542.1</td> <td>gene=AMI_0489</td> <td>protein=transposase, putative</td> <td>protein_id=ABW25542.1</td> <td>location=469018..469401</td> </tharyochloris<>	marina	CP000828.1	ABW25542.1	gene=AMI_0489	protein=transposase, putative	protein_id=ABW25542.1	location=469018..469401
16	463A <tharyochloris< th=""> <td>marina</td> <td>CP000828.1</td> <td>ABW25544.1</td> <td>gene=AMI_0501</td> <td>protein=transposase, putative</td> <td>protein_id=ABW25544.1</td> <td>location=complement(477589..477972)</td> </tharyochloris<>	marina	CP000828.1	ABW25544.1	gene=AMI_0501	protein=transposase, putative	protein_id=ABW25544.1	location=complement(477589..477972)
16	2017A <tharyochloris< th=""> <td>marina</td> <td>CP000828.1</td> <td>ABW27108.1</td> <td>gene=AMI_2093</td> <td>protein=transposase, putative</td> <td>protein_id=ABW27108.1</td> <td>location=2085736..2086095</td> </tharyochloris<>	marina	CP000828.1	ABW27108.1	gene=AMI_2093	protein=transposase, putative	protein_id=ABW27108.1	location=2085736..2086095
843	MBIC11017 protein	NIES-39	AP009552.1	BAG00334.1	gene=MAE_05120	protein=transposase	protein_id=BAG00334.1	location=456375..457418
843	MBIC11017 protein	NIES-39	AP009552.1	BAG00570.1	gene=MAE_07480	protein=transposase	protein_id=BAG00570.1	location=649201..650244
843	MBIC11017 protein	NIES-39	AP009552.1	BAG00853.1	gene=MAE_10310	protein=transposase	protein_id=BAG00853.1	location=complement(884964..886007)
843	MBIC11017 protein	NIES-39	AP009552.1	BAG04622.1	gene=MAE_48000	protein=transposase	protein_id=BAG04622.1	location=4401177..4402220
16	1214A <tharyochloris< th=""> <td>marina</td> <td>CP000828.1</td> <td>ABW25215.1</td> <td>gene=AMI_0129</td> <td>protein=hypothetical protein</td> <td>protein_id=ABW25215.1</td> <td>location=complement(128563..129672)</td> </tharyochloris<>	marina	CP000828.1	ABW25215.1	gene=AMI_0129	protein=hypothetical protein	protein_id=ABW25215.1	location=complement(128563..129672)
16	155A <tharyochloris< th=""> <td>marina</td> <td>CP000828.1</td> <td>ABW25246.1</td> <td>gene=AMI_0160</td> <td>protein=hypothetical protein</td> <td>protein_id=ABW25246.1</td> <td>location=158975..160084</td> </tharyochloris<>	marina	CP000828.1	ABW25246.1	gene=AMI_0160	protein=hypothetical protein	protein_id=ABW25246.1	location=158975..160084
16	1273A <tharyochloris< th=""> <td>marina</td> <td>CP000828.1</td> <td>ABW26364.1</td> <td>gene=AMI_1330</td> <td>protein=hypothetical protein</td> <td>protein_id=ABW26364.1</td> <td>location=1313003..1314112</td> </tharyochloris<>	marina	CP000828.1	ABW26364.1	gene=AMI_1330	protein=hypothetical protein	protein_id=ABW26364.1	location=1313003..1314112
16	4169A <tharyochloris< th=""> <td>marina</td> <td>CP000828.1</td> <td>ABW29257.1</td> <td>gene=AMI_4277</td> <td>protein=hypothetical protein</td> <td>protein_id=ABW29257.1</td> <td>location=complement(4296768..4297877)</td> </tharyochloris<>	marina	CP000828.1	ABW29257.1	gene=AMI_4277	protein=hypothetical protein	protein_id=ABW29257.1	location=complement(4296768..4297877)
16	4971A <tharyochloris< th=""> <td>marina</td> <td>CP000828.1</td> <td>ABW30058.1</td> <td>gene=AMI_5094</td> <td>protein=hypothetical protein</td> <td>protein_id=ABW30058.1</td> <td>location=5147289..5148398</td> </tharyochloris<>	marina	CP000828.1	ABW30058.1	gene=AMI_5094	protein=hypothetical protein	protein_id=ABW30058.1	location=5147289..5148398
16	5777A <tharyochloris< th=""> <td>marina</td> <td>CP000828.1</td> <td>ABW30864.1</td> <td>gene=AMI_5926</td> <td>protein=hypothetical protein</td> <td>protein_id=ABW30864.1</td> <td>location=5992224..5993333</td> </tharyochloris<>	marina	CP000828.1	ABW30864.1	gene=AMI_5926	protein=hypothetical protein	protein_id=ABW30864.1	location=5992224..5993333
16	6105A <tharyochloris< th=""> <td>marina</td> <td>CP000828.1</td> <td>ABW31192.1</td> <td>gene=AMI_6260</td> <td>protein=hypothetical protein</td> <td>protein_id=ABW31192.1</td> <td>location=6335818..6336927</td> </tharyochloris<>	marina	CP000828.1	ABW31192.1	gene=AMI_6260	protein=hypothetical protein	protein_id=ABW31192.1	location=6335818..6336927
14	165M <i>icrocystis aeruginosa</i>	NIES-39	AP009552.1	BAF99986.1	gene=MAE_01650	protein=hypothetical protein	protein_id=BAF99986.1	location=133753..134526
14	3306M <i>icrocystis aeruginosa</i>	NIES-39	AP009552.1	BAG03133.1	gene=MAE_33110	protein=hypothetical protein	protein_id=BAG03133.1	location=complement(3016288..3017061)
14	3422M <i>icrocystis aeruginosa</i>	NIES-39	AP009552.1	BAG03248.1	gene=MAE_34260	protein=hypothetical protein	protein_id=BAG03248.1	location=complement(3114659..3115432)
14	4305M <i>icrocystis aeruginosa</i>	NIES-39	AP009552.1	BAG04131.1	gene=MAE_43090	protein=hypothetical protein	protein_id=BAG04131.1	location=3971211..3971984
17	1920N <i>ostoc punctiforme</i>	PCC73102	CP001037.1	ACC80724.1	gene=Npun_F2107	protein=conserved hypothetical protein	protein_id=ACC80724.1	location=2576706..2577554
17	4319N <i>ostoc punctiforme</i>	PCC73102	CP001037.1	ACC83123.1	gene=Npun_R4774	protein=conserved hypothetical protein	protein_id=ACC83123.1	location=complement(5915257..5916105)
9	3766C <i>yanotheca sp</i>	PCC7424 protein	CP001291.1	ACK72241.1	gene=PCC7424 3862	protein=hypothetical protein	protein_id=ACK72241.1	location=complement(join(4297108..4297866,4297868..4297930))
9	3802C <i>yanotheca sp</i>	PCC7424 protein	CP001291.1	ACK72277.1	gene=PCC7424 3899	protein=transposase IS702 family protein	protein_id=ACK72277.1	location=4332844..4333587

14_484Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG00306.1	gene=MAE 04840	protein=transposase	protein id=BAG00306.1	location=431565..432356
14_783Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG00605.1	gene=MAE 07830	protein=transposase	protein id=BAG00605.1	location=679549..680406
14_895Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG00718.1	gene=MAE 08960	protein=transposase	protein id=BAG00718.1	location=778709..779566
14_928Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG00751.1	gene=MAE 09290	protein=transposase	protein id=BAG00751.1	location=803601..804458
14_990Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG00813.1	gene=MAE 09910	protein=transposase	protein id=BAG00813.1	location=complement(859757..860614)
14_1086Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG00909.1	gene=MAE 10870	protein=transposase	protein id=BAG00909.1	location=complement(933528..934385)
14_2071Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG01894.1	gene=MAE 20720	protein=transposase	protein id=BAG01894.1	location=1848286..1849143
14_2319Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG02142.1	gene=MAE 23200	protein=transposase	protein id=BAG02142.1	location=2084969..2085826
14_2606Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG02429.1	gene=MAE 26070	protein=transposase	protein id=BAG02429.1	location=complement(2356803..2357660)
14_2710Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG02533.1	gene=MAE 27110	protein=transposase	protein id=BAG02533.1	location=complement(2448484..2449323)
14_3525Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG03152.1	gene=MAE 33300	protein=transposase	protein id=BAG03152.1	location=complement(3028164..3029021)
14_3560Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG03187.1	gene=MAE 33650	protein=transposase	protein id=BAG03187.1	location=3065824..3066591
14_3439Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG03265.1	gene=MAE 34430	protein=transposase	protein id=BAG03265.1	location=complement(3127634..3128401)
14_3839Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG03665.1	gene=MAE 38430	protein=transposase	protein id=BAG03665.1	location=3473455..3474312
14_3927Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG03753.1	gene=MAE 39310	protein=transposase	protein id=BAG03753.1	location=3616333..3617190
14_3986Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG03812.1	gene=MAE 39900	protein=transposase	protein id=BAG03812.1	location=3663197..3664054
14_4266Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG04092.1	gene=MAE 42700	protein=transposase	protein id=BAG04092.1	location=complement(3938799..3939656)
14_4843Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG04667.1	gene=MAE 48450	protein=transposase	protein id=BAG04667.1	location=4447164..4448021
14_5305Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG05128.1	gene=MAE 53060	protein=transposase	protein id=BAG05128.1	location=complement(4868782..4869639)
14_5415Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG05239.1	gene=MAE 54170	protein=transposase	protein id=BAG05239.1	location=complement(4978973..4979830)
14_5690Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG05523.1	gene=MAE 57010	protein=transposase	protein id=BAG05523.1	location=5261959..5262816
14_6145Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG05968.1	gene=MAE 61460	protein=transposase	protein id=BAG05968.1	location=complement(5692792..5693649)
14_6233Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG06056.1	gene=MAE 62340	protein=transposase	protein id=BAG06056.1	location=complement(5773659..5774516)
14_6284Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG06108.1	gene=MAE 62860	protein=transposase	protein id=BAG06108.1	location=5820820..5821677
14_1381Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG01204.1	gene=MAE 13820	protein=transposase	protein id=BAG01204.1	location=1236257..1236883
14_2091Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG01914.1	gene=MAE 20920	protein=transposase	protein id=BAG01914.1	location=complement(1867658..1868284)
16_1185Acharyochloris MBIC11017 protein	CP000828.1 ABW26276.1	gene=AM1 1238	protein=transposase, putative	protein id=ABW26276.1	location=complement(1225141..1225770)
16_4321Acharyochloris MBIC11017 protein	CP000828.1 ABW29409.1	gene=AM1 4432	protein=transposase, putative	protein id=ABW29409.1	location=complement(4460718..4461347)
14_1453Microcystis aeruginosa NIES-843 protein	AP009552.1 BAF99966.1	gene=MAE 01450	protein=transposase	protein id=BAF99966.1	location=120122..120571
14_2092Microcystis aeruginosa NIES-843 protein	AP009552.1 BAG01915.1	gene=MAE 20930	protein=transposase	protein id=BAG01915.1	location=complement(1868347..1868796)
16_716Acharyochloris MBIC11017 protein	CP000828.1 ABW25807.1	gene=AM1 0763	protein=transposase, putative	protein id=ABW25807.1	location=complement(741568..742089)
16_1481Acharyochloris MBIC11017 protein	CP000828.1 ABW26572.1	gene=AM1 1547	protein=transposase, putative	protein id=ABW26572.1	location=1528937..1529458
16_1545Acharyochloris MBIC11017 protein	CP000828.1 ABW26636.1	gene=AM1 1612	protein=transposase, putative	protein id=ABW26636.1	location=1584889..1585410

12 3982Nostoc sp PCC7120 protein	BA00019.2 EAB75685.1	gene=al3986	protein=transposase	protein id=EAB75685.1	location=complement(4801437..4802645)
12 4100Nostoc sp PCC7120 protein	BA00019.2 EAB75803.1	gene=ah4104	protein=transposase	protein id=EAB75803.1	location=0944752..0945960
14 530Microcystis aeruginosa NIES-843 protein	AF009552.1 BAG00592.1	gene=MAE_05300	protein=transposase	protein id=BAG00592.1	location=471056..472243
14 4484Microcystis aeruginosa NIES-843 protein	AF009552.1 BAG04310.1	gene=MAE_44880	protein=transposase	protein id=BAG04310.1	location=complement(4126673..4127860)
1 364Cyanothecae sp PCC8801 protein	CP001287.1 ACK64471.1	gene=PCC8801_0373	protein=putative IS891/IS1136/IS1341 family transposase	protein id=ACK64471.1	location=371253..372587
1 3436Cyanothecae sp PCC8801 protein	CP001287.1 ACK67544.1	gene=PCC8801_3581	protein=putative IS891/IS1136/IS1341 family transposase	protein id=ACK67544.1	location=complement(3730986..3732320)
9 804Cyanothecae sp PCC7424 protein	CP001291.1 ACK69278.1	gene=PCC7424_0822	protein=putative transposase IS605 family	protein id=ACK69278.1	location=complement(910819..912054)
9 3156Cyanothecae sp PCC7424 protein	CP001291.1 ACK71631.1	gene=PCC7424_3231	protein=putative transposase IS605 family	protein id=ACK71631.1	location=3615830..3617065