

BLASTN 2.8.1+

Reference: Stephen F. Altschul, Thomas L. Madden, Alejandro A. Schälffer, Jinghui Zhang, Zheng Zhang, Webb Miller, and David J. Lipman (1997), "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", Nucleic Acids Res. 25:3389-3402.

RID: XDBVH8TH014

Database: nr

Query= CE-1_Alg-SR1_A04_01

Length=1121

Sequences producing significant alignments:			Score	E
			(Bits)	Value
gi 749444531 gb KJ635658.1	Oophila sp. LA2008 18S ribosomal ...	1852	0E00	
gi 563323151 gb KF791553.1	Chlorococcum sp. JB19 small subun...	1838	0E00	
gi 1857164 gb U70586.1 CEU70586	Chlorococcum ellipsoideum 18S...	1812	0E00	
gi 1027363285 gb KU521558.1	Chlorococcum sp. 51.3 18S riboso...	1811	0E00	
gi 928192344 dbj AB983622.1	Chlorococcum aquaticum gene for ...	1803	0E00	
gi 669688692 gb KM020099.1	Chlorococcum minutum strain SAG 2...	1803	0E00	
gi 429535705 dbj AB713407.1	Chlorococcum sp. J7 gene for 18S...	1803	0E00	
gi 29469378 gb AY220600.1	Chlamydomonad sp. Tow8/18T-6w 18S ...	1802	0E00	
gi 29469377 gb AY220599.1	Chlamydomonad sp. Pic6/3P-1w 18S r...	1802	0E00	
gi 29423437 gb AY220092.1	Chlamydomonad sp. Pic 9/21 P-2w 18...	1798	0E00	
gi 944383245 gb KR607490.1	Chlorococcum minutum strain SAG 2...	1797	0E00	
gi 226235461 dbj AB490288.1	Chlorococcum sp. YF382 gene for ...	1793	0E00	
gi 226235460 dbj AB490287.1	Chlorococcum sp. YF282 gene for ...	1792	0E00	
gi 29423439 gb AY220094.1	Chlamydomonad sp. WTwin 8/18 P-1d ...	1792	0E00	
gi 1003701883 gb KT781103.1	Chlorococcum sp. KQ-2016 18S rib...	1784	0E00	
gi 844175872 gb KP726222.1	Chlorococcum sp. KLL-G015 clone c...	1783	0E00	
gi 1297465723 gb KY091671.1	Oophila amblystomatis isolate Ki...	1779	0E00	
gi 480359416 gb KC492081.1	Chlamydomonadaceae sp. A10 18S ri...	1775	0E00	
gi 1101280142 gb KU361142.1	Chlamydomonas sp. SA-2016 18S ri...	1772	0E00	
gi 1101280140 gb KU361141.1	Chlamydomonas irregularis 18S ri...	1772	0E00	
gi 844175901 gb KP726223.1	Chlorococcum sp. KLL-G015 clone b...	1769	0E00	
gi 1297465085 gb KY091670.1	Oophila amblystomatis isolate Su...	1768	0E00	
gi 1371548645 gb MG784552.1	Chlorococcum sp. K2/11 18S ribos...	1767	0E00	
gi 1371548643 gb MG784550.1	Chlorococcum sp. K2/5 18S riboso...	1767	0E00	
gi 557844142 gb KF144186.1	Chlorococcum sp. GRK7-WB4 18S rib...	1767	0E00	
gi 557844141 gb KF144185.1	Chlorococcum sp. GRK6-DB6 18S rib...	1767	0E00	
gi 226235459 dbj AB490286.1	Chlorococcum sp. RK261 gene for ...	1767	0E00	
gi 359385112 emb FR865523.1	Chlamydomonas debaryana genomic ...	1759	0E00	
gi 557844143 gb KF144187.1	Chlorococcum sp. GRK7-WB5 18S rib...	1758	0E00	
gi 480359414 gb KC492079.1	Chlorococcum sp. A5 18S ribosomal...	1747	0E00	
gi 557844140 gb KF144184.1	Chlorococcum sp. GRK6-DB5 18S rib...	1743	0E00	
gi 83316205 gb DQ303098.1	Chlorococcum sp. KNU-F-2002-C1 18S...	1735	0E00	
gi 1440109552 gb MH703751.1	Chlorococcum oleofaciens strain ...	1732	0E00	
gi 1392939113 dbj AB936290.1	Chlorococcum tatrense gene for ...	1732	0E00	
gi 1276739976 gb MG491516.1	Chlorococcum oleofaciens strain ...	1732	0E00	
gi 1276739974 gb MG491514.1	Chlorococcum citriforme strain A...	1732	0E00	
gi 1276739971 gb MG491511.1	Neosporangiococcum gelatinosum str...	1732	0E00	
gi 1190062224 dbj AB936286.1	Chlorococcum elkhartiense gene ...	1732	0E00	
gi 928192330 dbj AB983608.1	Chlorococcum oleofaciens gene fo...	1732	0E00	
gi 669688696 gb KM020103.1	Neosporangiococcum gelatinosum stra...	1732	0E00	
gi 669688693 gb KM020100.1	Chlorococcum citriforme strain SA...	1732	0E00	
gi 379318159 gb JN968580.1	Chlorococcum sphacosum strain SAG...	1732	0E00	
gi 509379 emb Z28972.1	P. insigne mRNA for nuclear encoded sm...	1732	0E00	
gi 960515937 gb KT279470.1	Tetracystis sp. YACCYB50 18S ribo...	1731	0E00	
gi 749444532 gb KJ635659.1	Oophila sp. KY2008 18S ribosomal ...	1727	0E00	
gi 928192346 dbj AB983624.1	Macrochloris rubrioleum gene for...	1727	0E00	
gi 928192338 dbj AB983616.1	Chlorococcum microstigmatum gene...	1727	0E00	
gi 669688694 gb KM020101.1	Chlorococcum oleofaciens strain S...	1727	0E00	

gi	669688616	gb KM020023.1	Chlorococcum sp. SAG 2467 18S rib...	1727	0E00
gi	557844139	gb KF144183.1	Chlorococcum cf. sphacosum SAG 23...	1727	0E00
gi	379318161	gb JN968582.1	Tetracystis tetraspora strain SAG...	1727	0E00
gi	359385180	emb FR865591.1	Chlorococcum sp. CCAP 11/52 geno...	1727	0E00
gi	262474815	gb GU117582.1	Pleurastrum sp. CCCryo 006-99 18S...	1727	0E00
gi	262474807	gb GU117573.1	Pleurastrum sp. CCCryo 340b-08 18...	1727	0E00
gi	251736847	gb FJ946902.1	Chlorococcales sp. II4 18S riboso...	1727	0E00
gi	669688695	gb KM020102.1	Chlorococcum sphacosum strain SAG...	1725	0E00
gi	1276739973	gb MG491513.1	Chlorococcum sphacosum strain AC...	1724	0E00
gi	32344960	gb AY122332.1	Chlorococcum robustum clone Kr_86_...	1724	0E00
gi	1145763	gb U41176.1	COU41176 Chlorococcum oleofaciens 18S ...	1724	0E00
gi	1276718679	gb MG491216.1	Chlorococcum oleofaciens strain ...	1723	0E00
gi	1280145636	gb MG582207.1	Chlorococcum sphacosum strain AC...	1723	0E00
gi	944383246	gb KR607491.1	Chlorococcum oleofaciens strain S...	1722	0E00
gi	669688617	gb KM020024.1	Tetracystis tetraspora strain SAG...	1721	0E00
gi	251736848	gb FJ946903.1	Chlorococcales sp. VI8 18S riboso...	1720	0E00
gi	749444530	gb KJ635657.1	Oophila sp. CT2007 18S ribosomal ...	1719	0E00
gi	928192345	dbj AB983623.1	Chlorococcum nivale gene for 18S...	1719	0E00
gi	510020203	emb HE860252.1	Chlorochytrium lemnae partial 18...	1719	0E00
gi	510020202	emb HE860251.1	Chlorochytrium lemnae partial 18...	1719	0E00
gi	33325057	gb AF514408.1	Macrochloris sp. 105-99 strain CCC...	1718	0E00
gi	944383239	gb KR607484.1	Chloromonas perforata strain SAG ...	1717	0E00
gi	742523403	gb KM870774.1	Uncultured eukaryote clone TE212F...	1717	0E00
gi	442572058	gb JQ315635.1	Chlamydomonadaceae sp. KMMCC 249 ...	1716	0E00
gi	242347799	gb GQ122379.1	Chlamydomonadaceae sp. KMMCC FC-9...	1712	0E00
gi	389621737	gb JN880460.1	Protosiphon botryoides isolate UT...	1710	0E00
gi	389621736	gb JN880459.1	Protosiphon botryoides isolate FR...	1710	0E00
gi	389621735	gb JN880458.1	Protosiphon botryoides isolate UT...	1710	0E00
gi	389621734	gb JN880457.1	Protosiphon botryoides f. parieti...	1710	0E00
gi	166084192	gb EF024715.1	Uncultured Haematococcaceae clone...	1710	0E00
gi	1276739970	gb MG491510.1	Chlorococcum isabeliense strain ...	1705	0E00
gi	928192343	dbj AB983621.1	Chlorococcum rugosum gene for 18...	1705	0E00
gi	669688699	gb KM020106.1	Chlorococcum isabeliense strain S...	1705	0E00
gi	449534521	gb KC149964.1	Protosiphon botryoides isolate GT...	1705	0E00
gi	251736852	gb FJ946907.1	Chlorococcales sp. VPL9-6 18S rib...	1705	0E00
gi	167202	gb M63001.1	CAUUGGEAC Characium vacuolatum 18S ribos...	1705	0E00
gi	742523287	gb KM870658.1	Uncultured eukaryote clone TE108A...	1703	0E00
gi	1145765	gb U41177.1	PBU41177 Protosiphon botryoides 18S ri...	1703	0E00
gi	1857184	gb U70794.1	CPU70794 Chloromonas perforata strain ...	1701	0E00
gi	1276739972	gb MG491512.1	Chlorococcum diplobionticum stra...	1700	0E00
gi	1857163	gb U70587.1	CDU70587 Chlorococcum diplobionticum 1...	1700	0E00
gi	485073424	gb KC196723.1	Macrochloris radiosa isolate UTEX...	1699	0E00
gi	13469692	dbj AB049415.1	Chlorosarcinopsis minor gene for ...	1697	0E00
gi	669688772	gb KM020179.1	Rhopalosolen saccatus strain SAG ...	1696	0E00
gi	563323137	gb KF791539.1	Chlorococcum sp. JB1 small subuni...	1696	0E00
gi	166083647	gb EF024170.1	Uncultured eukaryote clone Elev_1...	1696	0E00
gi	1341122453	gb MG022715.1	Chlamydropodium starrii isolate C...	1696	0E00
gi	1341122452	gb MG022714.1	Chlamydropodium starrii isolate C...	1696	0E00
gi	960515919	gb KT279452.1	Tetracystis sp. YACCYB32 18S ribo...	1696	0E00
gi	928192347	dbj AB983625.1	Chlamydropodium starrii gene for ...	1696	0E00
gi	1276718680	gb MG491217.1	Chlorococcum oleofaciens strain ...	1693	0E00
gi	167199	gb M84319.1	CAURD18S Characium saccatum 18S ribosom...	1693	0E00

ALIGNMENTS

>gb|KJ635658.1| Oophila sp. LA2008 18S ribosomal RNA gene, partial sequence
Length=1741

Score = 1851.5 bits (2052), Expect = 0E00
Identities = 1085/1110 (97%), Gaps = 14/1110 (1%)
Strand = Plus/Plus

Query	5	ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT	64
Sbjct	13	ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT	72


```

Query 1021 TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCG 1075
          ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 1030 TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCGGGGGGAGTATGGTTCG 1088

Query 1076 CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
          ||||| ||||| ||||| ||||| |||||
Sbjct 1090 CAAGGCTGAAACTTAAAGGAATT-GACGGA 1118

```

>gb|KF791553.1| Chlorococcum sp. JB19 small subunit ribosomal RNA gene, partial sequence
Length=1746

Score = 1838.0 bits (2037), Expect = 0E00
Identities = 1082/1110 (97%), Gaps = 14/1110 (1%)
Strand = Plus/Plus

```

Query 5 ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAACCTGCGAATGGCTCATT 64
        ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 23 ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAACCTGCGAATGGCTCATT 82

Query 65 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
        ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 83 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 142

Query 125 GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184
        ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 143 GCTAATACATGCGTAAATCCCGACTTCTGGGAGGGACGTATTTATTAGATAAAAAGGCCAG 202

Query 185 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCACGGCCTTGTGCC 244
        ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 203 CCGAGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCACGGCCTCGTGCC 262

Query 245 GCGCATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC 304
        ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 263 GCGCATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC 322

Query 305 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 364
        ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 323 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 382

Query 365 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 424
        ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 383 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 442

Query 425 AGTGACAATAAATAACAATACTGGGCGTTTACGTCCTGGTAATTGGAATGAGAACAATGTA 484
        ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 443 AGTGACAATAAATAACAATACTGGGCGTTTACGTCCTGGTAATTGGAATGAGAACAATGTA 502

Query 485 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 544
        ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 503 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 562

Query 545 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGTG 604
        ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 563 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGTG 622

Query 605 TGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
        ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 623 TGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 682

Query 665 GCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724
        ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 683 GCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 742

```

```

Query 725  TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
          |||
Sbjct 743  TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTTAGCATGGAATCACACGATAGGACTCTGG 802

Query 785  CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC 844
          |||
Sbjct 803  CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 861

Query 845  GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTATGAAAGACGAACTTCTGCG-AAGCA 903
          |||
Sbjct 862  GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTATGAAAGACGAACTTCTGCGAAAGCA 921

Query 904  TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
          |||
Sbjct 922  TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 981

Query 963  ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
          |||
Sbjct 982  ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA- 1039

Query 1021 TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCG 1075
          |||
Sbjct 1040 TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCCGGGGGAGTATGGTTCG 1098

Query 1076 CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
          |||
Sbjct 1100 CAAGGCTGAAACTTAAAGGAATT-GACGGA 1128

```

>gb|U70586.1|CEU70586 Chlorococcum ellipsoideum 18S nuclear ribosomal RNA gene, partial sequence
Length=1702

Score = 1811.9 bits (2008), Expect = 0E00
Identities = 1077/1110 (97%), Gaps = 15/1110 (1%)
Strand = Plus/Plus

```

Query 5  ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
          |||
Sbjct 5  ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64

Query 65  AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
          |||
Sbjct 65  AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGG-ATAACCGTAGGAAATCTAGA 123

Query 125 GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184
          |||
Sbjct 124 GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 183

Query 185 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCACGGCCTTGTGCC 244
          |||
Sbjct 184 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCATGGCCTTGTGCC 243

Query 245 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCCTACC 304
          |||
Sbjct 244 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCCTACC 303

Query 305 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 364
          |||
Sbjct 304 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 363

Query 365 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 424
          |||
Sbjct 364 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 423

```

```

Query 425 AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 484
          |||
Sbjct 424 AGTGACAATAAATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGTACAATGTA 483

Query 485 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 544
          |||
Sbjct 484 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 543

Query 545 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG 604
          |||
Sbjct 544 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG 603

Query 605 TGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
          |||
Sbjct 604 CGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 663

Query 665 GCTCCTGGGCTTAAGTCTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724
          |||
Sbjct 664 GCTCCTGGGCTTCACTGCTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 723

Query 725 TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
          |||
Sbjct 724 TGTTCAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 783

Query 785 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC 844
          |||
Sbjct 784 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 842

Query 845 GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
          |||
Sbjct 843 GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCGAAAGCA 902

Query 904 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
          |||
Sbjct 903 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 962

Query 963 ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCCATTGAT 1020
          |||
Sbjct 963 ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA- 1020

Query 1021 TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCG 1075
          |||
Sbjct 1021 TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCCGGGGGAGTATGGTTCG 1079

Query 1076 CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
          |||
Sbjct 1081 CAAGGCTGAAACTTAAAGGAATT-GACGGA 1109

```

>gb|KU521558.1| Chlorococcum sp. 51.3 18S ribosomal RNA gene, partial sequence
Length=1697

Score = 1811.0 bits (2007), Expect = 0E00
Identities = 1082/1115 (97%), Gaps = 19/1115 (2%)
Strand = Plus/Plus

```

Query 5 ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
          |||
Sbjct 1 ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 60

Query 65 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
          |||
Sbjct 61 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 120

```

Query	125	GCTAATACATGCGTAAATCCCRACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG	184
Sbjct	121	GCTAATACATGCGTAAATCCCRACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG	180
Query	185	CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAAGTTACGAAATCGCACGGCCTTGTGCC	244
Sbjct	181	CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAAGTTACGAAATCGCACGGCCTCGTGCC	240
Query	245	GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC	304
Sbjct	241	GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC	300
Query	305	ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG	364
Sbjct	301	ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG	360
Query	365	GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCAGACACGGGGAGGT	424
Sbjct	361	GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCAGACACGGGGAGGT	420
Query	425	AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA	484
Sbjct	421	AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA	480
Query	485	AATATCTTAACGAGTATCCATT-GGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCC	543
Sbjct	481	AATATCTTAACGAGTATCCATTGGGAGGGCAAGTCTGGTTCAGCAGCCGCGGTAATTCC	540
Query	544	AGCTCCAATAGCGTATATTTAAGTTGTTG-CAGTTAAAAGC-TCGTAGTTGGATTTCCG	601
Sbjct	541	AGCTCCAATAGGGTATATTTAAGTTGTTGCCAGTTAAAAGCTTCGTAGTTGGATTTCCG	600
Query	602	GTGTGTGACGCGGCTCTGCC-TCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGG	660
Sbjct	601	GTGTGTGACGCGGCTCTGCC-TCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGG	660
Query	661	ACGGGCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACA	720
Sbjct	661	ACGGGCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACA	720
Query	721	AGAGTGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACT	780
Sbjct	721	AGAGTGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACT	780
Query	781	CTGGCCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA	840
Sbjct	781	CTGGCCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA	840
Query	841	TTTCGTATTTTCATTGTCAGAGGTGAAATCTTGGATTTATGAAAGACGAACTTCTGCG-A	899
Sbjct	841	-TTCGTATTTTCATTGTCAGAGGTGAAATCTTGGATTTATGAAAGACGAACTTCTGCGAA	899
Query	900	AGCATTGCGCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATT	958
Sbjct	900	AGCATTGCGCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATT	959
Query	959	AGATACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCAT	1016
Sbjct	960	AGATACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCAT	1018
Query	1017	TGATTGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAW	1070
Sbjct	1019	TGA-TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCGGGGGGGAGTAT	1077


```

Query 785 CCTATCTTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC 844
      |||
Sbjct 801 CCTATCTTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 859

Query 845 GTATTTTCATTGTCTAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
      |||
Sbjct 860 GTATTTTCATTGTCTAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCGAAAGCA 919

Query 904 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
      |||
Sbjct 920 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 979

Query 963 ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
      |||
Sbjct 980 ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA- 1037

Query 1021 TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTTC--GGGGGA-TAWTGCCG 1075
      |||
Sbjct 1038 TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCCGGGGGAGTATGGTTCG 1096

Query 1076 CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
      |||
Sbjct 1098 CAAGGCTGAAACTTAAAGGAATT-GACGGA 1126

```

>gb|KM020099.1|Chlorococcum minutum strain SAG 213-7 18S ribosomal RNA gene, partial sequence
Length=1771

Score = 1802.8 bits (1998), Expect = 0E00
Identities = 1075/1110 (96%), Gaps = 15/1110 (1%)
Strand = Plus/Plus

```

Query 5 ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
      |||
Sbjct 24 ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 83

Query 65 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
      |||
Sbjct 84 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGG-ATAACCGTAGGAAATCTAGA 142

Query 125 GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAGGCCAG 184
      |||
Sbjct 143 GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAGGCCAG 202

Query 185 CCGGGCTTGCCCGACTTAGGCGAATCATGATAACTTCACGAATCGCACGGCCTGTGCC 244
      |||
Sbjct 203 CCGGGCTTGCCCGACTTAGGCGAATCATGATAACTTCACGAATCGCACGGCCTCGTGCC 262

Query 245 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACC 304
      |||
Sbjct 263 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACC 322

Query 305 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 364
      |||
Sbjct 323 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 382

Query 365 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCACACGGGGAGGT 424
      |||
Sbjct 383 GCTTCCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCACACGGGGAGGT 442

Query 425 AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 484
      |||
Sbjct 443 AGTGACAATAAATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGCAACAATGTA 502

```

```

Query 485  AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 544
          |||
Sbjct 503  AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 562

Query 545  GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG 604
          |||
Sbjct 563  GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG 622

Query 605  TGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
          |||
Sbjct 623  AGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTTCACCTTTCTGCTGGGGACGG 682

Query 665  GCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724
          |||
Sbjct 683  GCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 742

Query 725  TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
          |||
Sbjct 743  TGTTCAAAGCAAGCCAACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 802

Query 785  CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC 844
          |||
Sbjct 803  CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 861

Query 845  GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
          |||
Sbjct 862  GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCGAAAGCA 921

Query 904  TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
          |||
Sbjct 922  TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 981

Query 963  ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
          |||
Sbjct 982  ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA- 1039

Query 1021 TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTTC--GGGGGA-TAWTGCCG 1075
          |||
Sbjct 1040 TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCCGGGGGAGTATGGTTCG 1098

Query 1076 CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
          |||
Sbjct 1100 CAAGGCTGAAACTTAAAGGAATT-GACGGA 1128

```

>dbj|AB713407.1| Chlorococcum sp. J7 gene for 18S rRNA, partial sequence
Length=1732

Score = 1802.8 bits (1998), Expect = 0E00
Identities = 1075/1110 (96%), Gaps = 15/1110 (1%)
Strand = Plus/Plus

```

Query 5  ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
          |||
Sbjct 26  ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 85

Query 65  AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
          |||
Sbjct 86  AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGG-ATAACCGTAGGAAATCTAGA 144

Query 125  GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184
          |||
Sbjct 145  GCTAATACATGCGCAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 204

```

Query	185	CCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCACGGCCTTGTGCC	244
Sbjct	205	CCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCACGGCCTCGTGCC	264
Query	245	GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC	304
Sbjct	265	GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC	324
Query	305	ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG	364
Sbjct	325	ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG	384
Query	365	GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT	424
Sbjct	385	GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT	444
Query	425	AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA	484
Sbjct	445	AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA	504
Query	485	AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA	544
Sbjct	505	AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA	564
Query	545	GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAGCTCGTAGTTGGATTTCCGGTG	604
Sbjct	565	GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAGCTCGTAGTTGGATTTCCGGTG	624
Query	605	TGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG	664
Sbjct	625	CGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG	684
Query	665	GCTCCTGGGCTTAAGTCTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG	724
Sbjct	685	GCTCCTGGGCTTGACTGCTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG	744
Query	725	TGTTCAAAGCAAGCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG	784
Sbjct	745	TGTTCAAAGCAAGCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG	804
Query	785	CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTCC	844
Sbjct	805	CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC	863
Query	845	GTATTTTCATTGTCAGAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCG-AAGCA	903
Sbjct	864	GTATTTTCATTGTCAGAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCGAAAGCA	923
Query	904	TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT	962
Sbjct	924	TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT	983
Query	963	ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT	1020
Sbjct	984	ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCTTTGA-	1041
Query	1021	TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCG	1075
Sbjct	1042	TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCGGGGGAGTATGGTTCG	1100
Query	1076	CAAGGCT-TGACTTAAGGGAGTTGGACGGA	1104
Sbjct	1102	CAAGGCTGAAACTTAAAGGAATT-GACGGA	1130

>gb|AY220600.1| Chlamydomonad sp. Tow8/18T-6w 18S ribosomal RNA gene, partial sequence
gi|29469379|gb|AY220601.1| Chlamydomonad sp. Tow2/24P-4w 18S ribosomal RNA gene, partial
sequence

Length=1689

Score = 1802.0 bits (1997), Expect = 0E00
Identities = 1071/1103 (97%), Gaps = 15/1103 (1%)
Strand = Plus/Plus

```
Query 12 CATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATTAAATCAG 71
      |||
Sbjct 2 CATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATTAAATCAG 61

Query 72 TTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGAGCTAATA 131
      |||
Sbjct 62 TTATAGTTTATTTGATGGTACCTCCTACTTGG-ATAACCGTAGGAAATCTAGAGCTAATA 120

Query 132 CATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAGGCCAGCCGGGCT 191
      |||
Sbjct 121 CATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAGGCCAGCCGGGCT 180

Query 192 TGCCCCGACCTTAGGCGAATCATGATAAATTCCAGAAATCGCACGGCCTTGTGCGCGCGATG 251
      |||
Sbjct 181 TGCCCCGACCTTAGGCGAATCATGATAAATTCCAGAAATCGCACGGCCTCGCGCGCGCGATG 240

Query 252 TTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACCATGGTGG 311
      |||
Sbjct 241 TTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACCATGGTGG 300

Query 312 TAACGGGTGACGGAGGATTAGGGTTCGATTCCGAGAGGGAGCCTGAGAAACGGCTACCA 371
      |||
Sbjct 301 TAACGGGTGACGGAGGATTAGGGTTCGATTCCGAGAGGGAGCCTGAGAAACGGCTACCA 360

Query 372 CATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGTAGTGACA 431
      |||
Sbjct 361 CATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGTAGTGACA 420

Query 432 ATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAAACAATGTAAATATCT 491
      |||
Sbjct 421 ATAAATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGTACAATGTAAATATCT 480

Query 492 TAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGTAATTCCAGCTCCAA 551
      |||
Sbjct 481 TAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGTAATTCCAGCTCCAA 540

Query 552 TAGCGTATATTTAAGTTGTTGAGTTAAAAAGCTCGTAGTTGGATTTCCGGTGTGTCGAC 611
      |||
Sbjct 541 TAGCGTATATTTAAGTTGTTGAGTTAAAAAGCTCGTAGTTGGATTTCCGGTGTGTCGAC 600

Query 612 GCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTCTGCTGGGGACGGGCTCCTG 671
      |||
Sbjct 601 GCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTCTGCTGGGGACGGGCTCCTG 660

Query 672 GGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAGTGTTCAA 731
      |||
Sbjct 661 GGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAGTGTTCAA 720

Query 732 AGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGGCCTATCT 791
      |||
Sbjct 721 AGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGGCCTATCT 780

Query 792 TGTTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTCGTATTTTC 851
```



```

Sbjct 481  |||...|||
TAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCAGCTCCAA 540
Query 552  TAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTGCGGTGTGTCGAC 611
Sbjct 541  |||...|||
TAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTGCGGTGCGTCGAC 600
Query 612  GCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGGGCTCCTG 671
Sbjct 601  |||...|||
GCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGGGCTCCTG 660
Query 672  GGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAGTGTTCAA 731
Sbjct 661  |||...|||
GGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAGTGTTCAA 720
Query 732  AGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGGCCTATCT 791
Sbjct 721  |||...|||
AGCAAGCCGACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGGCCTATCT 780
Query 792  TGTTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTCTGATTTT 851
Sbjct 781  |||...|||
TGTTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTCGTATTTT 839
Query 852  ATTGTCAGAGGTGAAATTCCTGGATTTATGAAAGACGAACCTTCTGCG-AAGCATTTGCCA 910
Sbjct 840  |||...|||
ATTGTCAGAGGTGAAATTCCTGGATTTATGAAAGACGAACCTTCTGCGAAAGCATTTGCCA 899
Query 911  AGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGATACCGTCG 969
Sbjct 900  |||...|||
AGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGATACCGTCG 959
Query 970  TAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGATTGACCCT 1027
Sbjct 960  |||...|||
TAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA-TGACCCT 1017
Query 1028  GCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTCC--GGGGGA-TAWTGCCGCAAGGCT 1082
Sbjct 1018  |||...|||
GCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCCGGGGGAGTATGGTCGCAAGGCT 1077
Query 1083  -TGACTTAAGGGAGTTGGACGGA 1104
Sbjct 1078  |||...|||
GAAACTTAAAGGAATT-GACGGA 1099

```

>gb|AY220092.1| Chlamydomonad sp. Pic 9/21 P-2w 18S ribosomal RNA gene, partial sequence
Length=1790

Score = 1798.3 bits (1993), Expect = 0E00
Identities = 1074/1110 (96%), Gaps = 15/1110 (1%)
Strand = Plus/Plus

```

Query 5  ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
Sbjct 43  |||...|||
ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 102
Query 65  AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
Sbjct 103  |||...|||
AAATCAGTTATAGTTTATTTGATGGTACTTCTACTTGG-ATAACCGTAGGAAATCTAGA 161
Query 125  GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184
Sbjct 162  |||...|||
GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 221
Query 185  CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAAGTTCACGAATCGCACGGCCTTGTGCC 244

```

Sbjct	222	 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTCAACGAATCGCATGGCCTTGTGCC	281
Query	245	GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACC	304
Sbjct	282	 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACC	341
Query	305	ATGGTGGTAAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG	364
Sbjct	342	 ATGGTGGTAAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG	401
Query	365	GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCAGACGGGGAGGT	424
Sbjct	402	 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCAGACGGGGAGGT	461
Query	425	AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA	484
Sbjct	462	 AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGTACAATGTA	521
Query	485	AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGTAATTCCA	544
Sbjct	522	 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGTAATTCCA	581
Query	545	GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG	604
Sbjct	582	 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG	641
Query	605	TGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG	664
Sbjct	642	 GGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTCCACCTTTCTGCTGGGGACGG	701
Query	665	GCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG	724
Sbjct	702	 GCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG	761
Query	725	TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG	784
Sbjct	762	 TGTTCAAAGCAAGCCAACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG	821
Query	785	CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC	844
Sbjct	822	 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC	880
Query	845	GTATTTTCATTGTGACAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCG-AAGCA	903
Sbjct	881	 GTATTTTCATTGTGACAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCGAAAGCA	940
Query	904	TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT	962
Sbjct	941	 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT	1000
Query	963	ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT	1020
Sbjct	1001	 ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA-	1058
Query	1021	TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCG	1075
Sbjct	1059	 TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCGGGGGGAGTATGGTTCG	1117
Query	1076	CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104	
Sbjct	1119	 CAAGGCTGAAACTTAAAGGAATT-GACGGA 1147	

>gb|KR607490.1| Chlorococcum minutum strain SAG 213-7 small subunit ribosomal RNA gene, partial sequence

Length=1717

Score = 1797.4 bits (1992), Expect = 0E00
Identities = 1070/1103 (97%), Gaps = 15/1103 (1%)
Strand = Plus/Plus

```
Query 12 CATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATTAATCAG 71
      |||
Sbjct 2 CATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATTAATCAG 61

Query 72 TTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGAGCTAATA 131
      |||
Sbjct 62 TTATAGTTTATTTGATGGTACCTCCTACTTGG-ATAACCGTAGGAAATCTAGAGCTAATA 120

Query 132 CATGCGTAAATCCCAGACTTCTGGAAGGGACGTATTTATTAGATAAAAGGCCAGCCGGGCT 191
      |||
Sbjct 121 CATGCGTAAATCCCAGACTTCTGGAAGGGACGTATTTATTAGATAAAAGGCCAGCCGGGCT 180

Query 192 TGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCACGGCCTTGTGCCGGCGATG 251
      |||
Sbjct 181 TGCCCGACTTTAGGCGAATCATGATAACTTCACGAATCGCACGGCCTCGTGCCGGCGATG 240

Query 252 TTTCAATCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACCATGGTGG 311
      |||
Sbjct 241 TTTCAATCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACCATGGTGG 300

Query 312 TAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACGGCTACCA 371
      |||
Sbjct 301 TAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACGGCTACCA 360

Query 372 CATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCAGACACGGGGAGGTAGTGACA 431
      |||
Sbjct 361 CATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCAGACACGGGGAGGTAGTGACA 420

Query 432 ATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTAATATCT 491
      |||
Sbjct 421 ATAAATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGCACAATGTAATATCT 480

Query 492 TAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGTAATTCCAGCTCCAA 551
      |||
Sbjct 481 TAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGTAATTCCAGCTCCAA 540

Query 552 TAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTTCGGGTGTGTCGAC 611
      |||
Sbjct 541 TAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTTCGGGTGAGTCGAC 600

Query 612 GCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGGGCTCCTG 671
      |||
Sbjct 601 GCGGTCTGCCTCTGGTATGTACTGCGCTCGGTTCACCTTTCTGCTGGGGACGGGCTCCTG 660

Query 672 GGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAGTGTTCAA 731
      |||
Sbjct 661 GGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAGTGTTCAA 720

Query 732 AGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGGCCTATCT 791
      |||
Sbjct 721 AGCAAGCCAACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGGCCTATCT 780

Query 792 TGTTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTCGTATTTT 851
      |||
Sbjct 781 TGTTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTCGTATTTT 839
```



```

Query 852  ATTGTCAGAGGTGAAATTCCTGGATTTATGAAAGACGAACTTCTGCG-AAGCATTGCGA 910
          |||
Sbjct 840  ATTGTCAGAGGTGAAATTCCTGGATTTATGAAAGACGAACTTCTGCGAAAGCATTGCGA 899

Query 911  AGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGATACCGTCG 969
          |||
Sbjct 900  AGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGATACCGTCG 959

Query 970  TAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGATGACCCT 1027
          |||
Sbjct 960  TAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA-TGACCCT 1017

Query 1028 GCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTCC--GGGGGA-TAWTGCCGCAAGGCT 1082
          |||
Sbjct 1018 GCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCCGGGGGAGTATGGTCGCAAGGCT 1077

Query 1083  -TGACTTAAGGGAGTTGGACGGA 1104
          |||
Sbjct 1078  GAAACTTAAAGGAATT-GACGGA 1099

```

>dbj|AB490288.1| Chlorococcum sp. YF382 gene for 18S rRNA, partial sequence
Length=1738

Score = 1792.9 bits (1987), Expect = 0E00
Identities = 1074/1111 (96%), Gaps = 16/1111 (1%)
Strand = Plus/Plus

```

Query 5  ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAACTGCGAATGGCTCATT 64
          |||
Sbjct 5  ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAACTGCGAATGGCTCATT 64

Query 65  AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
          |||
Sbjct 65  AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGG-ATAACCGTAGGAAATCTAGA 123

Query 125  GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184
          |||
Sbjct 124  GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 183

Query 185  CCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCA-CGAATCGCACGGCCTTGTGC 243
          |||
Sbjct 184  CCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTCAAACGAATCGCATGGCCTTGTGC 243

Query 244  CGGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTAC 303
          |||
Sbjct 244  CGGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTAC 303

Query 304  CATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAAC 363
          |||
Sbjct 304  CATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAAC 363

Query 364  GGCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGG 423
          |||
Sbjct 364  GGCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGG 423

Query 424  TAGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGT 483
          |||
Sbjct 424  TAGTGACAATAAATAACAATACTGGGCGTTTATGTCTGGTAATTGGAATGAGTACAATGT 483

Query 484  AAATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGTAATTCC 543
          |||
Sbjct 484  AAATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGTAATTCC 543

```

```

Query 544  AGCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGT 603
          |||
Sbjct 544  AGCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGT 603

Query 604  GTGTTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACG 663
          |
Sbjct 604  GGGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTTACCTTTCTGCTGGGGACG 663

Query 664  GGCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGA 723
          |||
Sbjct 664  GGCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGA 723

Query 724  GTGTTCAAAGCAAGCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTG 783
          |||
Sbjct 724  GTGTTCAAAGCAAGCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTG 783

Query 784  GCCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTT 843
          |||
Sbjct 784  GCCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TT 842

Query 844  CGTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCG-AAGC 902
          |||
Sbjct 843  CGTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCGAAAGC 902

Query 903  ATTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGA 961
          |||
Sbjct 903  ATTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGA 962

Query 962  TACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCCATTGA 1019
          |||
Sbjct 963  TACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGCTCCATTGA 1021

Query 1020  TTGACCC TGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTCC--GGGGGA-TAWTGCC 1074
          |||
Sbjct 1022  -TGACCC TGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCCGGGGGAGTATGGTC 1080

Query 1075  GCAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
          |||
Sbjct 1081  GCAAGGCTGANACTTAAAGGAATT-GACGGA 1110

```

>dbj|AB490287.1| Chlorococcum sp. YF282 gene for 18S rRNA, partial sequence
Length=1779

Score = 1792.0 bits (1986), Expect = 0E00
Identities = 1074/1111 (96%), Gaps = 16/1111 (1%)
Strand = Plus/Plus

```

Query 5  ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
          |||
Sbjct 33  ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 92

Query 65  AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
          |||
Sbjct 93  AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGG-ATAACCGTAGGAAATCTAGA 151

Query 125  GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184
          |||
Sbjct 152  GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 211

Query 185  CCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCA-CGAATCGCACGGCCTTGTGC 243
          |||
Sbjct 212  CCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTCAAACGAATCGCATGGCCTTGTGC 271

```


Score = 1792.0 bits (1986), Expect = 0E00
 Identities = 1074/1111 (96%), Gaps = 16/1111 (1%)
 Strand = Plus/Plus

```

Query 5      ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
          |||
Sbjct 43      ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 102

Query 65     AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
          |||
Sbjct 103     AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGG-ATAACCGTAGGAAATCTAGA 161

Query 125    GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184
          |||
Sbjct 162    GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 221

Query 185    CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAECTTCA-CGAATCGCACGGCCTTGTGC 243
          |||
Sbjct 222    CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAECTCAAACGAATCGCATGGCCTTGTGC 281

Query 244    CGGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTAC 303
          |||
Sbjct 282    CGGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTAC 341

Query 304    CATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAAC 363
          |||
Sbjct 342    CATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAAC 401

Query 364    GGCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGG 423
          |||
Sbjct 402    GGCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGG 461

Query 424    TAGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGACAATGT 483
          |||
Sbjct 462    TAGTGACAATAAATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGTACAATGT 521

Query 484    AAATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGTAATTCC 543
          |||
Sbjct 522    AAATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGTAATTCC 581

Query 544    AGCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGT 603
          |||
Sbjct 582    AGCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGT 641

Query 604    GTGTGACGCGGCTGCTGCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACG 663
          |||
Sbjct 642    GGGTCGACGCGGCTGCTGCTCTGGTATGTACTGCGCTCGGTTACCTTTCTGCTGGGGACG 701

Query 664    GGCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGA 723
          |||
Sbjct 702    GGCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGA 761

Query 724    GTGTTCAAAGCAAGCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTG 783
          |||
Sbjct 762    GTGTTCAAAGCAAGCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTG 821

Query 784    GCCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGCATT 843
          |||
Sbjct 822    GCCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TT 880

Query 844    CGTATTTTCATTGTCAGAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCG-AAGC 902
          |||
Sbjct 881    CGTATTTTCATTGTCAGAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCGAAAGC 940
  
```

```

Query 903  ATTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGA 961
          |||
Sbjct 941  ATTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGA 1000

Query 962  TACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGA 1019
          |||
Sbjct 1001 TACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGCTCCATTGA 1059

Query 1020 TTGACCCGTCAGCA-CCTATGAGAATYCAAAGTTTTT-GGTTC--GGGGA-TAWTGCC 1074
          |||
Sbjct 1060 -TGACCCGTCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCCGGGGGAGTATGGTC 1118

Query 1075  GCAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
          |||
Sbjct 1119  GCAAGGCTGAAACTTAAAGGAATT-GACGGA 1148

```

>gb|KT781103.1| Chlorococcum sp. KQ-2016 18S ribosomal RNA gene, partial sequence
Length=1689

Score = 1783.9 bits (1977), Expect = 0E00
Identities = 1067/1103 (96%), Gaps = 15/1103 (1%)
Strand = Plus/Plus

```

Query 12   CATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATTAATCAG 71
          |||
Sbjct 2     CATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATTAATCAG 61

Query 72   TTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGAGCTAATA 131
          |||
Sbjct 62   TTATAGTTTATTTGATGGTACCTCCTACTTGG-ATAACCGTAGGAAATCTAGAGCTAATA 120

Query 132  CATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAGGCCAGCCGGGCT 191
          |||
Sbjct 121  CATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAGGCCAGCCGGGCT 180

Query 192  TGCCCCGACCTTAGGCGAATCATGATAAATTACGAATCGCACGGCCTTGTGCCGGCGATG 251
          |||
Sbjct 181  TGCCCCGACTTTAGGCGAATCATGATAAATTACGAATCGCATGGCCTCGTGCCGGCGATG 240

Query 252  TTTCAATCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACCATGGTGG 311
          |||
Sbjct 241  TTTCAATCAAATTTCTGCCCTATCAACTTTCGATGGTAGGGTAGAGGCCTACCATGGTGG 300

Query 312  TAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACGGCTACCA 371
          |||
Sbjct 301  TAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACGGCTACCA 360

Query 372  CATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGTAGTGACA 431
          |||
Sbjct 361  CATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGTAGTGACA 420

Query 432  ATAAATAACAATACTGGGCGTTTACGCTCTGGTAATTGGAATGAGAACAATGTAAATATCT 491
          |||
Sbjct 421  ATAAATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGTACAATGTAAATATCT 480

Query 492  TAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGGTAATTCCAGCTCCAA 551
          |||
Sbjct 481  TAACGAGTATCCATTGGAGGGCAAGCCTGGTGCCAGCAGCCGGTAATTCCAGCTCCAA 540

Query 552  TAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGTGTGTCGAC 611
          |||
Sbjct 541  TAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGTGTGTCGAC 600

```

```

Query 612 GCGGTCTGCCTCTGGTATGTAAGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGGGCTCCTG 671
          |||
Sbjct 601 GCGGTCTGCCTCTGGTATGTAAGTACTGCGCTCGGTTCACCTTTCTGCTGGGGACGGGCTCCTG 660

Query 672 GGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAGTGTTCAA 731
          |||
Sbjct 661 GGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAGTGTTCAA 720

Query 732 AGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGGCCTATCT 791
          |||
Sbjct 721 AGCAAGCCGACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGGCCTATCT 780

Query 792 TGTTGGTCTGTAGGACCGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTCGTATTTTC 851
          |||
Sbjct 781 TGTTGGTCTGTAGGACCGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTCGTATTTTC 839

Query 852 ATTGTCAGAGGTGAAATTCCTGGATTTATGAAAGACGAACTTCTGCG-AAGCATTGCCA 910
          |||
Sbjct 840 ATTGTCAGAGGTGAAATTCCTGGATTTATGAAAGACGAACTTCTGCGAAAGCATTGCCA 899

Query 911 AGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGATACCGTCG 969
          |||
Sbjct 900 AGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGATACCGTCG 959

Query 970 TAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGATTGACCCT 1027
          |||
Sbjct 960 TAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCATTGA-TGACCCT 1017

Query 1028 GCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCGCAAGGCT 1082
          |||
Sbjct 1018 GCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCCGGGGGAGTATGGTCGCAAGGCT 1077

Query 1083 -TGAAGTAAAGGAGTTGGACGGA 1104
          |||
Sbjct 1078 GAAACTTAAAGGAATT-GACGGA 1099

```

>gb|KP726222.1| Chlorococcum sp. KLL-G015 clone c 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence
Length=2466

Score = 1783.0 bits (1976), Expect = 0E00
Identities = 1072/1111 (96%), Gaps = 16/1111 (1%)
Strand = Plus/Plus

```

Query 5 ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
          |||
Sbjct 4 ATTAAGCCGTGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 63

Query 65 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
          |||
Sbjct 64 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGG-ATAACCGTAGGAAATCTAGA 122

Query 125 GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184
          |||
Sbjct 123 GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 182

Query 185 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAAGTTCA-CGAATCGCACGGCCTTGTGC 243
          |||
Sbjct 183 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAAGTTCAAACGAATCGCATGGCCTTGTGC 242

Query 244 CGGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTAC 303
          |||

```

```

Sbjct 243 CGGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTAC 302
Query 304 CATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAAC 363
      |||
Sbjct 303 CATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAAC 362
Query 364 GGCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGG 423
      |||
Sbjct 363 GGCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGG 422
Query 424 TAGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGT 483
      |||
Sbjct 423 TAGTGACAATAAATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGTACAATGT 482
Query 484 AAATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCC 543
      |||
Sbjct 483 AAATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCC 542
Query 544 AGCTCCAATAGCGTATATTTAAGTTGTTGCGAGTTAAAAAGCTCGTAGTTGGATTTCGGGT 603
      |||
Sbjct 543 AGCTCCAATAGCGTATATTTAAGTTGTTGCGGTTAAAAAGCTCGTAGTTGGATTTCGGGT 602
Query 604 GTGTGCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACG 663
      |
Sbjct 603 GGGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTTACCTTTCTGCTGGGGACG 662
Query 664 GGCTCCTGGGCTTAAGTCTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGA 723
      |||
Sbjct 663 GGCTCCTGGGCTTAAGTCTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGA 722
Query 724 GTGTTCAAAGCAAGCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTG 783
      |||
Sbjct 723 GTGTTCAAAGCAAGCCGACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTG 782
Query 784 GCCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTT 843
      |||
Sbjct 783 GCCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TT 841
Query 844 CGTATTTTCATTGTCAGAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCG-AAGC 902
      |||
Sbjct 842 CGTATTTTCATTGTCAGAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCGAAAGC 901
Query 903 ATTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGA 961
      |||
Sbjct 902 ATTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGA 961
Query 962 TACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGA 1019
      |||
Sbjct 962 TACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGCTCCATTGA 1020
Query 1020 TTGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCC 1074
      |||
Sbjct 1021 -TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCCGGGGGAGTATGGTC 1079
Query 1075 GCAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
      |||
Sbjct 1080 GCAAGGCTGAAACTTAAAGGAATT-GACGGA 1109

```

>gb|KY091671.1| *Oophila amblystomatis* isolate Kingston 18S ribosomal RNA gene, partial sequence
Length=1689

Score = 1778.5 bits (1971), Expect = 0E00
Identities = 1066/1102 (96%), Gaps = 16/1102 (1%)

Strand = Plus/Plus

```
Query 14 TGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATTAATCAGTT 73
|
Sbjct 1 TGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATTAATCAGTT 60

Query 74 ATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGAGCTAATACA 133
|
Sbjct 61 ATAGTTTATTTGATGGTACCTCCTACTTGG-ATAACCGTAGGAAATCTAGAGCTAATACA 119

Query 134 TCGGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAGCCGGGCTTG 193
|
Sbjct 120 TCGGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAGCCGGGCTTG 179

Query 194 CCCGACCTTAGGCGAATCATGATAAATTCA-CGAATCGCACGGCCTTGTGCCGCGATGT 252
|
Sbjct 180 CCCGACCTTAGGCGAATCATGATAAATTCAACGAATCGCATGGCCTTGTGCCGCGATGT 239

Query 253 TTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACCATGGTGGT 312
|
Sbjct 240 TTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACCATGGTGGT 299

Query 313 AACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACGGCTACCAC 372
|
Sbjct 300 AACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACGGCTACCAC 359

Query 373 ATCCAAGGAAGGCAGCAGGCGCGCAAATTACCAATCCCGACACGGGGAGGTAGTGACAA 432
|
Sbjct 360 ATCCAAGGAAGGCAGCAGGCGCGCAAATTACCAATCCCGACACGGGGAGGTAGTGACAA 419

Query 433 TAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTAAATATCTT 492
|
Sbjct 420 TAAATAACAATACTGGGCAATTATGTCTGGTAATTGGAATGAGTACAATGTAAATATCTT 479

Query 493 AACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGTAATTCCAGCTCCAAT 552
|
Sbjct 480 AACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGTAATTCCAGCTCCAAT 539

Query 553 AGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTGTGTCGACG 612
|
Sbjct 540 AGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTGGGTCGACG 599

Query 613 CGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTCTGCTGGGGACGGGCTCCTGG 672
|
Sbjct 600 CGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTCTGCTGGGGACGGGCTCCTGG 659

Query 673 GCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAGTGTTCAAA 732
|
Sbjct 660 GCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAGTGTTCAAA 719

Query 733 GCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGGCCTATCTT 792
|
Sbjct 720 GCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGGCCTATCTT 779

Query 793 GTTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTCGTATTTCA 852
|
Sbjct 780 GTTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTCGTATTTCA 838

Query 853 TTGTCAGAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCG-AAGCATTGCCAA 911
|
Sbjct 839 TTGTCAGAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCGAAAGCATTGCCAA 898

Query 912 GGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGATACCGTCGT 970
|
```



```

Sbjct 640 GGTTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTCCACCTTTCTGCTGGGGACGG 699
Query 665 GCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724
          |||
Sbjct 700 GCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 759
Query 725 TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
          |||
Sbjct 760 TGTTCAAAGCAAGCCAACGCTCTGAATTTTTTTAGCATGGAATCACACGATAGGACTCTGG 819
Query 785 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC 844
          |||
Sbjct 820 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC 878
Query 845 GTATTTTCATTGTCAGAGGTGAAATTCCTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
          |||
Sbjct 879 GTATTTTCATTGTCAGAGGTGAAATTCCTGGATTTATGAAAGACGAACTTCTGCGAAAGCA 938
Query 904 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
          |||
Sbjct 939 TTTGCCAAGGATGTTTTTCATTGATCAAGAA--AAAGTTGGGGGCTCGAAGACGATTAGAT 996
Query 963 ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
          |||
Sbjct 997 ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA- 1054
Query 1021 TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTC--GGGGGA-TAWTGCCG 1075
          |||
Sbjct 1055 TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCCGGGGGGAGTATGGTTCG 1113
Query 1076 CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
          |||
Sbjct 1115 CAAGGCTGAAACTTAAAGGAATT-GACGGA 1143

```

>gb|KU361142.1| Chlamydomonas sp. SA-2016 18S ribosomal RNA gene, partial sequence
Length=1655

Score = 1772.2 bits (1964), Expect = 0E00
Identities = 1056/1089 (96%), Gaps = 15/1089 (1%)
Strand = Plus/Plus

```

Query 26 TATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATTAAATCAGTTATAGTTTATTG 85
          |||
Sbjct 1 TATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATTAAATCAGTTATAGTTTATTG 60
Query 86 ATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGAGCTAATACATGCGTAAATCCC 145
          |||
Sbjct 61 ATGGTACTTCTACTTGG-ATAACCGTAGGAAATCTAGAGCTAATACATGCGTAAATCCC 119
Query 146 GACTTCTGGAAGGGACGTATTTATTAGATAAAAAGCCAGCCGGGCTTGCCCGACCTTAGG 205
          |||
Sbjct 120 GACTTCTGGAAGGGACGTATTTATTAGATAAAAAGCCAGCCGGGCTTGCCCGACCTTAGG 179
Query 206 CGAATCATGATAACTTCACGAATCGCACGGCCTTGTGCCGGCGATGTTTCATTCAAATTT 265
          |||
Sbjct 180 CGAATCATGATAACTTCACGAATCGCACGGCCTCGCGCCGGCGATGTTTCATTCAAATTT 239
Query 266 CTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACCATGGTGGTAACGGGTGACGGA 325
          |||
Sbjct 240 CTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACCATGGTGGTAACGGGTGACGGA 299
Query 326 GGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAAACGGCTACCACATCCAAGGAAGGC 385
          |||

```

```

Sbjct 300 GGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAAACGGCTACCACATCCAAGGAAGGC 359
Query 386 AGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGTAGTGACAATAAATAACAATAC 445
      |||
Sbjct 360 AGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGTAGTGACAATAAATAACAATAC 419
Query 446 TGGGCGTTTACGTCTGGTAATTGGAATGAGAACAAATGTAAATATCTTAACGAGTATCCAT 505
      |||
Sbjct 420 TGGGCGTTTACGTCTGGTAATTGGAATGAGTACAATGTAAATATCTTAACGAGTATCCAT 479
Query 506 TGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCAGCTCCAATAGCGTATATTTAA 565
      |||
Sbjct 480 TGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCAGCTCCAATAGCGTATATTTAA 539
Query 566 GTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCGGGTGTGTCGACGCGGTCTGCCTCTG 625
      |||
Sbjct 540 GTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCGGGTGCGTCGACGCGGTCTGCCTCTG 599
Query 626 GTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGGGCTCCTGGGCTTAACTGCTTG 685
      |||
Sbjct 600 GTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGGGCTCCTGGGCTTAACTGCTTG 659
Query 686 GGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAGTGTTCAAAGCAAGCCCACGCT 745
      |||
Sbjct 660 GGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAGTGTTCAAAGCAAGCCCACGCT 719
Query 746 CTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGGCCTATCTTGTTGGTCTGTAGG 805
      |||
Sbjct 720 CTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGGCCTATCTTGTTGGTCTGTAGG 779
Query 806 ACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTCGTATTTTCATTGTCAGAGGTGA 865
      |||
Sbjct 780 ACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTCGTATTTTCATTGTCAGAGGTGA 838
Query 866 AATTCTTGGATTTATGAAAGACGAACTTCTGCG-AAGCATTTGCCAAGGATGTTTTTCATT 924
      |||
Sbjct 839 AATTCTTGGATTTATGAAAGACGAACTTCTGCGAAAGCATTTGCCAAGGATGTTTTTCATT 898
Query 925 GATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGATACCGTCGTAGKCYTCAA-CAT 982
      |||
Sbjct 899 GATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGATACCGTCGTAGTC-TCAACCAT 957
Query 983 AAACGATGCCGACTAGGGATTGGCA-GTGTTCCATTGATTGACCCTGCCAGCA-CTTATG 1040
      |||
Sbjct 958 AAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA-TGACCCTGCCAGCACCTTATG 1016
Query 1041 AGAATYCAAAGTTTTT-GGTTC--GGGGG-TAWTGCCGCAAGGCT-TGACTTAAGGGAG 1095
      |||
Sbjct 1017 AGAAATCAAAGTTTTTGGGTTCCGGGGGAGTATGGTCGCAAGGCTGAAACTTAAAGGAA 1076
Query 1096 TTGGACGGA 1104
      ||
Sbjct 1077 TT-GACGGA 1084

```

>gb|KU361141.1| Chlamydomonas irregularis 18S ribosomal RNA gene, partial sequence
Length=1652

Score = 1772.2 bits (1964), Expect = 0E00
Identities = 1056/1089 (96%), Gaps = 15/1089 (1%)
Strand = Plus/Plus

```

Query 26 TATAAACTGCTTATACGGTGAAGCTGCGAATGGCTCATTAAATCAGTTATAGTTTATTG 85
      |||

```



```

Sbjct  958  AAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA-TGACCCTGCCAGCACCTTATG  1016
Query  1041 AGAATYCAAAGTTTTT-GGTTTC--GGGGGA-TAWTGCCGCAAGGCT-TGACTTAAGGGAG  1095
      |||||  |||||||||||||||  |||||  |||||  ||  |  |||||||||||  |||||||  |||
Sbjct  1017  AGAAATCAAAGTTTTTGGGTTCCGGGGGAGTATGGTTCGCAAGGCTGAAACTTAAAGGAA  1076
Query  1096  TTGGACGGA  1104
      ||  |||||
Sbjct  1077  TT-GACGGA  1084

```

>gb|KP726223.1| Chlorococcum sp. KLL-G015 clone b 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence
Length=2466

Score = 1769.5 bits (1961), Expect = 0E00
Identities = 1069/1111 (96%), Gaps = 16/1111 (1%)
Strand = Plus/Plus

```

Query  5      ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT  64
      |||||||  |  |||||||||||||||  |||||||||||||||  |||||||||||||||
Sbjct  4      ATTAAGCCGTCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT  63
Query  65      AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA  124
      |||||||||||||||  |||||||||||||||  |||||||||||||||  |||||||||||||||
Sbjct  64      AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGG-ATAACCGTAGGAAATCTAGA  122
Query  125     GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG  184
      |||||||||||||||  |||||||||||||||  |||||||||||||||  |||||||||||||||
Sbjct  123     GCTAATACATGCGTAGATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG  182
Query  185     CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAATTCA-CGAATCGCACGGCCTTGTGC  243
      |||||||||||||||  |||||||||||||||  |||||||||||||||  |||||||||||||||
Sbjct  183     CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAATTCAAACGAATCGCATGGCCTTGTGC  242
Query  244     CGGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTAC  303
      |||||||||||||||  |||||||||||||||  |||||||||||||||  |||||||||||||||
Sbjct  243     CGGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTAC  302
Query  304     CATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAAC  363
      |||||||||||||||  |||||||||||||||  |||||||||||||||  |||||||||||||||
Sbjct  303     CATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAAC  362
Query  364     GGCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGG  423
      |||||||||||||||  |||||||||||||||  |||||||||||||||  |||||||||||||||
Sbjct  363     GGCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGG  422
Query  424     TAGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGT  483
      |||||||||||||||  |||||||||||||||  |||||  |||||  |||||  |||||
Sbjct  423     TAGTGACAATAGATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGTACAATGT  482
Query  484     AAATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCC  543
      |||||||||||||||  |||||||||||||||  |||||||||||||||  |||||||||||||||
Sbjct  483     AAATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCC  542
Query  544     AGCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTCGGGT  603
      |||||||||||||||  |||||||||||||||  |||||||||||||||  |||||||||||||||
Sbjct  543     AGCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTCGGGT  602
Query  604     GTGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACG  663
      |  |||||||  |||||||  |||||||  |||||||  |||||||  |||||||
Sbjct  603     GGGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTTACCTTTCTGCTGGGGACG  662

```

```

Query 664 GGCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGA 723
          |||
Sbjct 663 GGCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGA 722

Query 724 GTGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTG 783
          |||
Sbjct 723 GTGTTCAAAGCAAGCCGACGCTCTGAATTTTTTAGCACGGAATCACACGATAGGACTCTG 782

Query 784 GCCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTT 843
          |||
Sbjct 783 GCCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TT 841

Query 844 CGTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCG-AAGC 902
          |||
Sbjct 842 CGTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCGAAAGC 901

Query 903 ATTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGA 961
          |||
Sbjct 902 ATTTGCCAAGGATGCTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGA 961

Query 962 TACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTCCATTGA 1019
          |||
Sbjct 962 TACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGCTCCATTGA 1020

Query 1020 TTGACCCTGCCAGCA-CCTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCC 1074
          |||
Sbjct 1021 -TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCGGGGGGAGTATGGTC 1079

Query 1075 GCAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
          |||
Sbjct 1080 GCAAGGCTGAAACTTAAAGGAATT-GACGGA 1109

```

>gb|KY091670.1| *Oophila amblystomatis* isolate Suddent Tract 18S ribosomal RNA gene, complete sequence

Length=1699

Score = 1767.7 bits (1959), Expect = 0E00
Identities = 1067/1108 (96%), Gaps = 17/1108 (2%)
Strand = Plus/Plus

```

Query 9 AGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAACCTGCGAATGGCTCATTAAT 68
        |||
Sbjct 1 AGCCNTGCATGTCTAAGTATAAACTGCTTATACGGTGAACCTGCGAATGGCTCATTAAT 60

Query 69 CAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGAGCTA 128
          |||
Sbjct 61 CAGTTATAGTTTATTTGATGGTACCTCCTACTTGG-ATAACCGTAGGAAATCTAGAGCTA 119

Query 129 ATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAGCCGG 188
          |||
Sbjct 120 ATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAGCCGG 179

Query 189 GCTTGCCCGACCTTAGGCGAATCATGATAACTTCA-CGAATCGCACGGCCTTGTGCCGGC 247
          |||
Sbjct 180 GCTTGCCCGACCTTAGGCGAATCATGATAACTCAAACGAATCGCATGGCCTTGTGCCGGC 239

Query 248 GATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACCATG 307
          |||
Sbjct 240 GATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACCATG 299

Query 308 GTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACGGCT 367
          |||
Sbjct 300 GTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACGGCT 359

```

```

Query 368 ACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGTAGT 427
          |||
Sbjct 360 ACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGTAGT 419

Query 428 GACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTAAAT 487
          |||
Sbjct 420 GACAATAAATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGTACAATGTAAAT 479

Query 488 ATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCAGCT 547
          |||
Sbjct 480 ATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCAGCT 539

Query 548 CCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTTCGGGTGTGT 607
          |||
Sbjct 540 CCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTTCGGGTGGGT 599

Query 608 CGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTCTGCTGGGGACGGGCT 667
          |||
Sbjct 600 CGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTTACCTTCTGCTGGGGACGGGCT 659

Query 668 CCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAGTGT 727
          |||
Sbjct 660 CCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAGTGT 719

Query 728 TCAAAGCAAGCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGGCCT 787
          |||
Sbjct 720 TCAAAGCAAGCCGACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGGCCT 779

Query 788 ATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTCGTA 847
          |||
Sbjct 780 ATCTTGTGGTCTGTANGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTCGTA 838

Query 848 TTTCAATTGTGAGAGGTGAAATTTCTTGGATTTATGAAAGACGAACTTCTGCG-AAGCATTT 906
          |||
Sbjct 839 TTTCAATTGTGAGANGTGAATTTCTTGGATTTATGAAAGACGAACTTCTGCGAAAGCATTT 898

Query 907 GCCAA-GGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGATAC 964
          |||
Sbjct 899 GCCAAGGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGATAC 958

Query 965 CGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATGATTG 1022
          |||
Sbjct 959 CGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGCTCCATTGA-TG 1016

Query 1023 ACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCGCA 1077
          |||
Sbjct 1017 ACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCCGGGGGAGTATGGTCGCA 1076

Query 1078 AGGCT-TGACTTAAGGGAGTTGGACGGA 1104
          |||
Sbjct 1077 AGGCTGAAACTTAAAGGAATT-GACGGA 1103

```

>gb|MG784552.1| Chlorococcum sp. K2/11 18S ribosomal RNA gene, partial sequence
Length=1752

Score = 1766.8 bits (1958), Expect = 0E00
Identities = 1067/1110 (96%), Gaps = 15/1110 (1%)
Strand = Plus/Plus

```

Query 5 ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
          |||
Sbjct 25 ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 84

```



```

Query 725  TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
          |||
Sbjct 742  TGTTCAAAGCAAGCCGACGCTCTGAATTTTTTTAGCATGGAATCACACGATAGGACTCTGG 801

Query 785  CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC 844
          |||
Sbjct 802  CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 860

Query 845  GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
          |||
Sbjct 861  GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCGAAAGCA 920

Query 904  TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
          |||
Sbjct 921  TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 980

Query 963  ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
          |||
Sbjct 981  ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA- 1038

Query 1021 TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCG 1075
          |||
Sbjct 1039 TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCCGGGGGAGTATGGTTCG 1097

Query 1076 CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
          |||
Sbjct 1099 CAAGGCTGAAACTTAAAGGAATT-GACGGA 1127

```

>gb|KF144186.1| Chlorococcum sp. GRK7-WB4 18S ribosomal RNA gene, partial sequence
Length=1753

Score = 1766.8 bits (1958), Expect = 0E00
Identities = 1067/1110 (96%), Gaps = 15/1110 (1%)
Strand = Plus/Plus

```

Query 5  ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
          |||
Sbjct 25  ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 84

Query 65  AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
          |||
Sbjct 85  AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGG-ATAACCGTAGGAAATCTAGA 143

Query 125  GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184
          |||
Sbjct 144  GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 203

Query 185  CCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCACGGCCTTGTGCC 244
          |||
Sbjct 204  CCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCATGGCCTTGTGCC 263

Query 245  GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCCTACC 304
          |||
Sbjct 264  GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCCTACC 323

Query 305  ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 364
          |||
Sbjct 324  ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 383

Query 365  GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 424
          |||
Sbjct 384  GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 443

```

```

Query 425 AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 484
          |||
Sbjct 444 AGTGACAATAAATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGTACAATGTA 503

Query 485 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 544
          |||
Sbjct 504 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 563

Query 545 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG 604
          |||
Sbjct 564 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG 623

Query 605 TGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
          |||
Sbjct 624 CGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 683

Query 665 GCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724
          |||
Sbjct 684 TCTCCTGGGCTTAACTGCTTGGGAAGTGGAGTCAGCAGAGTGACCTTGAGCAAACAAGAG 743

Query 725 TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
          |||
Sbjct 744 TGTTCAAAGCAAGCCGACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 803

Query 785 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC 844
          |||
Sbjct 804 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC 862

Query 845 GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
          |||
Sbjct 863 GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCGAAAGCA 922

Query 904 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
          |||
Sbjct 923 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 982

Query 963 ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCCATTGAT 1020
          |||
Sbjct 983 ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA- 1040

Query 1021 TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCG 1075
          |||
Sbjct 1041 TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCCGGGGGAGTATGGTTCG 1099

Query 1076 CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
          |||
Sbjct 1101 CAAGGCTGAAACTTAAAGGAATT-GACGGA 1129

```

>gb|KF144185.1| Chlorococcum sp. GRK6-DB6 18S ribosomal RNA gene, partial sequence
Length=1754

Score = 1766.8 bits (1958), Expect = 0E00
Identities = 1067/1110 (96%), Gaps = 15/1110 (1%)
Strand = Plus/Plus

```

Query 5 ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
          |||
Sbjct 28 ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 87

Query 65 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
          |||
Sbjct 88 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGG-ATAACCGTAGGAAATCTAGA 146

```

Query	125	GCTAATACATGCGTAAATCCCRACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG	184
Sbjct	147	GCTAATACATGCGTAAATCCCRACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG	206
Query	185	CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAECTTACGAATCGCACGGCCTTGTGCC	244
Sbjct	207	CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAECTTACGAATCGCATGGCCTTGTGCC	266
Query	245	GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC	304
Sbjct	267	GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC	326
Query	305	ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG	364
Sbjct	327	ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG	386
Query	365	GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCAGACACGGGGAGGT	424
Sbjct	387	GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCAGACACGGGGAGGT	446
Query	425	AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA	484
Sbjct	447	AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGTACAATGTA	506
Query	485	AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA	544
Sbjct	507	AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA	566
Query	545	GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG	604
Sbjct	567	GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG	626
Query	605	TGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG	664
Sbjct	627	CGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGAATACGC	686
Query	665	GCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG	724
Sbjct	687	TCTCCTGGGCTTAACTGCTTGGGAAAGTGGAGTCAAGCAGAGTGACCTTGAGCAAACAAGAG	746
Query	725	TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG	784
Sbjct	747	TGTTCAAAGCAAGCCGACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG	806
Query	785	CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC	844
Sbjct	807	CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC	865
Query	845	GTATTTTCATTGTCAGAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCG-AAGCA	903
Sbjct	866	GTATTTTCATTGTCAGAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCGAAAGCA	925
Query	904	TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT	962
Sbjct	926	TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT	985
Query	963	ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCCATTGAT	1020
Sbjct	986	ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA-	1043
Query	1021	TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCG	1075
Sbjct	1044	TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCGGGGGGAGTATGGTTCG	1102

```

Query 1076 CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
          |||||  |||||  |||  ||  |||||
Sbjct 1104 CAAGGCTGAAACTTAAAGGAATT-GACGGA 1132

```

>dbj|AB490286.1| Chlorococcum sp. RK261 gene for 18S rRNA, partial sequence
Length=1794

Score = 1766.8 bits (1958), Expect = 0E00
Identities = 1067/1110 (96%), Gaps = 15/1110 (1%)
Strand = Plus/Plus

```

Query 5      ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
          |||||  |||||||  |||||||  |||  ||  |||||
Sbjct 46      ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 105

Query 65     AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
          |||||  |||||||  |||||||  |||||||  |||||  |||||  |||||
Sbjct 106     AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGG-ATAACCGTAGGAAATCTAGA 164

Query 125    GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGCCAG 184
          |||||  |||||||  |||||||  |||||||  |||||||  |||||||  |||||||
Sbjct 165    GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGCCAG 224

Query 185    CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAECTTCACGAATCGCACGGCCTTGTGCC 244
          |||||  |||||||  |||||||  |||||||  |||||||  |||||||  |||||||
Sbjct 225    CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAECTTCACGAATCGCATGGCCTTGTGCC 284

Query 245    GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC 304
          |||||  |||||||  |||||||  |||||||  |||||||  |||||||  |||||||
Sbjct 285    GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC 344

Query 305    ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 364
          |||||  |||||||  |||||||  |||||||  |||||||  |||||||  |||||||
Sbjct 345    ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 404

Query 365    GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 424
          |||||  |||||||  |||||||  |||||||  |||||||  |||||||  |||||||
Sbjct 405    GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 464

Query 425    AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 484
          |||||  |||||||  |||||||  |||||  |||  |||||  |||||  |||||
Sbjct 465    AGTGACAATAAATAACAATACTGGGCAATTTATGTCTGGTAATTGGAATGAGTACAATGTA 524

Query 485    AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGTAATTCCA 544
          |||||  |||||||  |||||||  |||||||  |||||||  |||||||  |||||||
Sbjct 525    AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGTAATTCCA 584

Query 545    GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCGGGTG 604
          |||||  |||||||  |||||||  |||||||  |||||||  |||||||  |||||||
Sbjct 585    GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCGGGTG 644

Query 605    TGTTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
          |||||  |||||||  |||||||  |||||||  |||||  |||  |||
Sbjct 645    CGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGAATACGC 704

Query 665    GCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGGCAACAAGAG 724
          |||||  |||||||  |||||  |||||  |||||  |||||  |||||
Sbjct 705    TCTCCTGGGCTTAACTGCTTGGGAAGTGGAGTCAAGAGTGCAGAGTGCACCTTGGCAACAAGAG 764

Query 725    TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
          |||||  |||||||  |||||||  |||||||  |||||  |||||  |||||
Sbjct 765    TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 824

```

```

Query 785 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC 844
      |||
Sbjct 825 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 883

Query 845 GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
      |||
Sbjct 884 GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCGAAAGCA 943

Query 904 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
      |||
Sbjct 944 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 1003

Query 963 ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCCATTGAT 1020
      |||
Sbjct 1004 ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA- 1061

Query 1021 TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTCC--GGGGA-TAWTGCCG 1075
      |||
Sbjct 1062 TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCCGGGGGAGTATGGTTCG 1120

Query 1076 CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
      |||
Sbjct 1122 CAAGGCTGAAACTTAAAGGAATT-GACGGA 1150

```

>emb|FR865523.1| Chlamydomonas debaryana genomic DNA containing 18S rRNA gene, ITS1, 5.8S rRNA gene, ITS2, 28S rRNA gene, culture collection CCAP 11/1
Length=2519

Score = 1758.7 bits (1949), Expect = 0E00
Identities = 1065/1110 (95%), Gaps = 15/1110 (1%)
Strand = Plus/Plus

```

Query 5 ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
      |||
Sbjct 23 ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 82

Query 65 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
      |||
Sbjct 83 AAATCAGTTATAGTTTATTTGATGGTACCTCCTNCTTGG-ATAACCGTAGGAAATCTAGA 141

Query 125 GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184
      |||
Sbjct 142 GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 201

Query 185 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCACGGCCTGTGCC 244
      |||
Sbjct 202 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCATGGCCTCGTGCC 261

Query 245 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACC 304
      |||
Sbjct 262 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACC 321

Query 305 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 364
      |||
Sbjct 322 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 381

Query 365 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 424
      |||
Sbjct 382 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 441

Query 425 AGTGACAATAAATAACAATACTGGGCGTTTACGCTCTGGTAATTGGAATGAGAACAATGTA 484
      |||

```

```

Sbjct 442 AGTGACAATAAATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGTACAATGTA 501
Query 485 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 544
      |||
Sbjct 502 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 561
Query 545 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG 604
      |||
Sbjct 562 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG 621
Query 605 TGTTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
      |||
Sbjct 622 CGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGAATACGC 681
Query 665 GCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724
      |||
Sbjct 682 TCTCCTGGGCTTAACTGCTTGGGAAGTGGAGTCAGCAGAGTGACCTTGAGCAAACAAGAG 741
Query 725 TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
      |||
Sbjct 742 TGTTCAAAGCAAGCCGACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 801
Query 785 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC 844
      |||
Sbjct 802 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 860
Query 845 GTATTTTCATTGTCAGAGGTGAAATTCCTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
      |||
Sbjct 861 GTATTTTCATTGTCAGAGGTGAAATTCCTGGATTTATGAAAGACGAACTTCTGCGAAAGCA 920
Query 904 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
      |||
Sbjct 921 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 980
Query 963 ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
      |||
Sbjct 981 ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA- 1038
Query 1021 TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCG 1075
      |||
Sbjct 1039 TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCGGGGGGAGTATGGTCTG 1097
Query 1076 CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
      |||
Sbjct 1099 CAAGGCTGAAACTTAAAGGAATT-GACGGA 1127

```

>gb|KF144187.1| Chlorococcum sp. GRK7-WB5 18S ribosomal RNA gene, partial sequence
Length=1768

Score = 1757.8 bits (1948), Expect = 0E00
Identities = 1065/1110 (95%), Gaps = 15/1110 (1%)
Strand = Plus/Plus

```

Query 5 ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
      |||
Sbjct 41 ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 100
Query 65 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
      |||
Sbjct 101 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGG-ATAACCGTAGGAAATCTAGA 159
Query 125 GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184
      |||

```

Sbjct 160 GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 219

Query 185 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCACGGCCTTGTGCC 244
 |||
 Sbjct 220 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCATGGCCTTGTGCC 279

Query 245 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACC 304
 |||
 Sbjct 280 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACC 339

Query 305 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 364
 |||
 Sbjct 340 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 399

Query 365 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCACACGGGGAGGT 424
 |||
 Sbjct 400 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCACACGGGGAGGT 459

Query 425 AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 484
 |||
 Sbjct 460 AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGTACAATGTA 519

Query 485 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 544
 |||
 Sbjct 520 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 579

Query 545 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG 604
 |||
 Sbjct 580 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG 639

Query 605 TGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
 |||
 Sbjct 640 CGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGAATACGC 699

Query 665 GCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724
 |||
 Sbjct 700 TCTCCTGGGCTTAACTGCTTGGGAAAGTGGAGTCAGCAGAGTGACCTTGAGCAAACAAGAG 759

Query 725 TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
 |||
 Sbjct 760 TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 819

Query 785 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTCC 844
 |||
 Sbjct 820 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 878

Query 845 GTATTTTCATTGTCAGAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
 |||
 Sbjct 879 GTATTTTCATTGTCAGAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCGAAAGCA 938

Query 904 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
 |||
 Sbjct 939 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 998

Query 963 ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
 |||
 Sbjct 999 CCCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA- 1056

Query 1021 TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCG 1075
 |||
 Sbjct 1057 TGACCCCGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCGGGGGAGTATGGTCCG 1115

Query 1076 CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
 |||

Sbjct 1117 CAAGGCTGAAACTTAAAGGAATT-GACGGA 1145

>gb|KC492079.1| Chlorococcum sp. A5 18S ribosomal RNA gene, partial sequence
Length=1789

Score = 1747.0 bits (1936), Expect = 0E00
Identities = 1064/1110 (95%), Gaps = 18/1110 (2%)
Strand = Plus/Plus

```
Query 5 ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 46 ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 105

Query 65 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 106 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGG-ATAACCGTAGGAAATCTAGA 164

Query 125 GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184
||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 165 GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 224

Query 185 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCACGGCCTTGTGCC 244
||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 225 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCATGGCCTTGTGCC 284

Query 245 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACC 304
||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 285 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACC 344

Query 305 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 364
||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 345 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 404

Query 365 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 424
||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 405 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGG-GGT 463

Query 425 AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 484
||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 464 AGTGACAATAAATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGTACAATGTA 523

Query 485 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGTAATTCCA 544
||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 524 AATATCTTAACGAGTATCCATTGGA--GCAAGTCTGGTGCCAGCAGCCGCGTAATTCCA 581

Query 545 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCGGGTG 604
||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 582 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCGGGTG 641

Query 605 TGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 642 CGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 701

Query 665 GCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724
||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 702 TCTCCTGGGCTTAACTGCTTGGGAAAGTGGAGTCAGCAGAGTGACCTTGAGCAAACAAGAG 761

Query 725 TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 762 TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 821

Query 785 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC 844
||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
```

```

Sbjct 822 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 880
Query 845 GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
          |||
Sbjct 881 GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCGAAAGCA 940
Query 904 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
          |||
Sbjct 941 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 1000
Query 963 ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
          |||
Sbjct 1001 ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCATTGA- 1058
Query 1021 TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCG 1075
          |||
Sbjct 1059 TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCGGGGGGAGTATGGTTCG 1117
Query 1076 CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
          |||
Sbjct 1119 CAAGGCTGAAACTTAAAGGAATT-GACGGA 1147

```

>gb|KF144184.1| Chlorococcum sp. GRK6-DB5 18S ribosomal RNA gene, partial sequence
Length=1754

Score = 1743.3 bits (1932), Expect = 0E00
Identities = 1064/1111 (95%), Gaps = 17/1111 (2%)
Strand = Plus/Plus

```

Query 5 ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
          |||
Sbjct 28 ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 87
Query 65 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
          |||
Sbjct 88 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGG-ATAACCGTAGGAAATCTAGA 146
Query 125 GCTAATACATGCGTAAAT-CCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCA 183
          |||
Sbjct 147 GCTAATACATGCGTAAATTCCTGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCA 206
Query 184 GCCGGGCTTGCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCACGGCCTTGTGC 243
          |||
Sbjct 207 GCCGGGCTTGCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCATGGCCTTGTGC 266
Query 244 CGGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTAC 303
          |||
Sbjct 267 CGGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTAC 326
Query 304 CATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAAC 363
          |||
Sbjct 327 CATGGTGGTAACGGGT-ACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAAC 385
Query 364 GGCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGG 423
          |||
Sbjct 386 GGCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGG 445
Query 424 TAGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGT 483
          |||
Sbjct 446 TAGTGACAATAAATAACAATAATTGGGCATTTATGTCTGATAATTGGAATGAGTACAATGT 505
Query 484 AAATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGTAATTCC 543
          |||

```

```

Sbjct 506 AAATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCC 565
Query 544 AGCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCGGGT 603
          |||
Sbjct 566 AGCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCGGAT 625
Query 604 GTGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACG 663
          |||| | |||
Sbjct 626 GTGTTGTCGCGGTCTGCCTCTGGTATGTACTGCGTTCGATGCATCTTTCTGCTGGGGACG 685
Query 664 GGCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGA 723
          |||
Sbjct 686 AGCTCCTGGGCTTTACTGTCTGGGACTCGGAATCAGCGAAGTGACCTTGAGCAAACAAGA 745
Query 724 GTGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTG 783
          |||
Sbjct 746 GTGTTCAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTG 805
Query 784 GCCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTT 843
          |||
Sbjct 806 GCCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TT 864
Query 844 CGTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCG-AAGC 902
          |||
Sbjct 865 CGTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCGAAAAGC 924
Query 903 ATTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGA 961
          |||
Sbjct 925 ATTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGA 984
Query 962 TACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGA 1019
          |||
Sbjct 985 TACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA 1043
Query 1020 TTGACCTGCCAGCA-C TTATGAGAATYCAAAGTTTTT-GGTTCC--GGGGGA-TAWTGCC 1074
          |||
Sbjct 1044 -TGACCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCCGGGGGAGTATGGTC 1102
Query 1075 GCAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
          |||
Sbjct 1103 GCAAGGCTGAAACTTAAAGGAATT-GACGGA 1132

```

>gb|DQ303098.1| Chlorococcum sp. KNU-F-2002-C1 18S ribosomal RNA gene, partial sequence
Length=1547

Score = 1735.2 bits (1923), Expect = 0E00
Identities = 1037/1071 (96%), Gaps = 15/1071 (1%)
Strand = Plus/Plus

```

Query 44 TGAAACTGCGAATGGCTCATTAAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGG 103
          |||
Sbjct 1 TGAAACTGCGAATGGCTCATTAAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGG 60
Query 104 TATAACCGTAGGAAATCTAGAGCTAATACATGCGTAAATCCCAGCTTCTGGAAGGGACGT 163
          |||
Sbjct 61 -ATAACCGTAGGAAATCTAGAGCTAATACATGCGTAAATCCCAGCTTCTGGAAGGGACGT 119
Query 164 ATTTATTAGATAAAAAGGCCAGCCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCA 223
          |||
Sbjct 120 ATTTATTAGATAAAAAGGCCAGCCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCA 179
Query 224 CGAATCGCACGGCTTGTGCCGGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCG 283
          |||

```

```

Sbjct 180 CGAATCGCATGGCCTCGTGCCGGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCG 239
Query 284 ATGGTAGGATAGAGGCCTACCATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCC 343
      |||
Sbjct 240 ATGGTAGGATAGAGGCCTACCATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCC 299
Query 344 GGAGAGGGAGCCTGAGAAACGGCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTAC 403
      |||
Sbjct 300 GGAGAGGGAGCCTGAGAAACGGCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTAC 359
Query 404 CCAATCCCGACACGGGGAGGTAGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGT 463
      |||
Sbjct 360 CCAATCCCGACACGGGGAGGTAGTGACAATAAATAACAATACTGGGCATTTATGTCTGGT 419
Query 464 AATTGGAATGAGAACAATGTAATAATCTTAAACGAGTATCCATTGGAGGGCAAGTCTGGTG 523
      |||
Sbjct 420 AATTGGAATGAGTACAATGTAATAATCTTAAACGAGTATCCATTGGAGGGCAAGTCTGGTG 479
Query 524 CCAGCAGCCGCGGTAATTCCAGCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAG 583
      |||
Sbjct 480 CCAGCAGCCGCGGTAATTCCAGCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAG 539
Query 584 CTCGTAGTTGGATTTCCGGGTGTGTGCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGT 643
      |||
Sbjct 540 CTCGTAGTTGGATTTCCGGGTGAGTGTGCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGT 599
Query 644 GCACCTTTCTGCTGGGGACGGGCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAA 703
      |||
Sbjct 600 TCACCTTTCTGCTGGGGACGGGCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAA 659
Query 704 GTGACCTTGAGCAAACAAGAGTGTTCAAAGCAAGCCACGCTCTGAATTTTTTAGCATGG 763
      |||
Sbjct 660 GTGACCTTGAGCAAACAAGAGTGTTCAAAGCAAGCCGACGCTCTGAATTTTTTAGCATGG 719
Query 764 AATCACACGATAGGACTCTGGCCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAG 823
      |||
Sbjct 720 AATCACACGATAGGACTCTGGCCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAG 779
Query 824 AGGGACAGTCGGGGCATTTCGTATTTTCATTGTCAGAGGTGAAATTCCTGGATTTATGAA 883
      |||
Sbjct 780 AGGGACAGTCGGGGCA-TTCGTATTTTCATTGTCAGAGGTGAAATTCCTGGATTTATGAA 838
Query 884 AGACGAACTTCTGCG-AAGCATTGCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTG 942
      |||
Sbjct 839 AGACGAACTTCTGCGAAAGCATTGCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTG 898
Query 943 GGGGCTCG-AGACGATTAGATACCGTCGTAGKCYTCAA-CATAACGATGCCGACTAGGG 1000
      |||
Sbjct 899 GGGGCTCGAAGACGATTAGATACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGG 957
Query 1001 ATTGGCA-GTGTTCATTGATTGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-G 1057
      |||
Sbjct 958 ATTGGCAGGTGTTCCATTGA-TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGG 1016
Query 1058 GTTC--GGGGGA-TAWTGCCGCAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
      |||
Sbjct 1017 GTTCGGGGGAGTATGGTCGCAAGGCTGAACTTAAAGGAATT-GACGGA 1066

```

>gb|MH703751.1| Chlorococcum oleofaciens strain Ru-1-1 small subunit ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and large subunit ribosomal RNA gene, partial sequence
Length=2678


```

Query 904   TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
          |||
Sbjct 921   TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 980

Query 963   ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
          |||
Sbjct 981   ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA- 1038

Query 1021  TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCG 1075
          |||
Sbjct 1039  TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCGGGGGGAGTATGGTTCG 1097

Query 1076  CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
          |||
Sbjct 1099  CAAGGCTGAAACTTAAAGGAATT-GACGGA 1127

```

>dbj|AB936290.1| Chlorococcum tatrense gene for 18S ribosomal RNA, partial sequence
Length=1745

Score = 1731.6 bits (1919), Expect = 0E00
Identities = 1060/1110 (95%), Gaps = 16/1110 (1%)
Strand = Plus/Plus

```

Query 5     ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
          |||
Sbjct 23     ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 82

Query 65     AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
          |||
Sbjct 83     AAATCAGTTATAGTTTATTTGATGGTACTTT-TACTCGG-ATAACCGTAGTAATTCTAGA 140

Query 125    GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184
          |||
Sbjct 141    GCTAATACGTGCGTAAATCCCGACTTATGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 200

Query 185    CCGGGCTTGCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCACGGCCTTGTGCC 244
          |||
Sbjct 201    CCGGGCTTGCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCACGCCCTTGTGGC 260

Query 245    GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACC 304
          |||
Sbjct 261    GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACC 320

Query 305    ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAAACG 364
          |||
Sbjct 321    ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAAACG 380

Query 365    GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCACACGGGGAGGT 424
          |||
Sbjct 381    GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCACACGGGGAGGT 440

Query 425    AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 484
          |||
Sbjct 441    AGTGACAATAAATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGTACAATGTA 500

Query 485    AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCAGCAGCCGCGGTAATTCCA 544
          |||
Sbjct 501    AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCAGCAGCCGCGGTAATTCCA 560

Query 545    GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGTG 604
          |||
Sbjct 561    GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGATG 620

```

```

Query 605  TGTTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
          ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct 621  TGTTGACGCGGTCTGCCTCTGGTATGTACTGCGTTTCGATGCATCTTTCTGCTGGGGACGA 680

Query 665  GCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724
          ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct 681  GCTCCTGGGCTTAACTGTCTGGGACTCGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 740

Query 725  TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
          ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct 741  TGTTCAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 800

Query 785  CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC 844
          ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct 801  CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 859

Query 845  GTATTTTCATTGTTCAGAGGTGAAATTCTTGGATTATGAAAGACGAACTTCTGCG-AAGCA 903
          ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct 860  GTATTTTCATTGTTCAGAGGTGAAATTCTTGGATTATGAAAGACGAACTTCTGCGAAAGCA 919

Query 904  TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
          ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct 920  TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 979

Query 963  ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
          ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct 980  ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCATTGA- 1037

Query 1021 TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCG 1075
          ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct 1038 TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCCGGGGGAGTATGGTTCG 1096

Query 1076 CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
          ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct 1098 CAAGGCTGAAACTTAAAGGAATT-GACGGA 1126

```

>gb|MG491516.1| Chlorococcum oleofaciens strain ACSSI 208 small subunit ribosomal RNA gene, partial sequence
Length=1724

Score = 1731.6 bits (1919), Expect = 0E00
Identities = 1060/1110 (95%), Gaps = 16/1110 (1%)
Strand = Plus/Plus

```

Query 5  ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
          ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct 22  ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 81

Query 65  AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
          ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct 82  AAATCAGTTATAGTTTATTTGATGGTACTTT-TACTCGG-ATAACCGTAGTAATTCTAGA 139

Query 125 GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184
          ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct 140 GCTAATACGTGCGTAAATCCCGACTTATGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 199

Query 185 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAECTTACGAATCGCACGGCCTTGTGCC 244
          ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct 200 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAECTTACGAATCGCACGCCCTTGTGGC 259

Query 245 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCTACC 304
          ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct 260 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCTACC 319

```

```

Query 305 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 364
          |||
Sbjct 320 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 379

Query 365 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCAGACACGGGGAGGT 424
          |||
Sbjct 380 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCAGACACGGGGAGGT 439

Query 425 AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 484
          |||
Sbjct 440 AGTGACAATAAATAACAATACTGGGCGTTTATGTCTGGTAATTGGAATGAGTACAATGTA 499

Query 485 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 544
          |||
Sbjct 500 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 559

Query 545 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG 604
          |||
Sbjct 560 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGATG 619

Query 605 TGTGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
          |||
Sbjct 620 TGTGACGCGGTCTGCCTCTGGTATGTACTGCGTTCGATGCATCTTTCTGCTGGGGACGA 679

Query 665 GCTCCTGGGCTTAAGTCTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724
          |||
Sbjct 680 GCTCCTGGGCTTAAGTCTGGGACTCGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 739

Query 725 TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
          |||
Sbjct 740 TGTTCAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 799

Query 785 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC 844
          |||
Sbjct 800 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 858

Query 845 GTATTTTCATTGTCAGAGGTGAAATTCCTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
          |||
Sbjct 859 GTATTTTCATTGTCAGAGGTGAAATTCCTGGATTTATGAAAGACGAACTTCTGCGAAAGCA 918

Query 904 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
          |||
Sbjct 919 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 978

Query 963 ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
          |||
Sbjct 979 ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA- 1036

Query 1021 TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCG 1075
          |||
Sbjct 1037 TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCGGGGGGAGTATGGTTCG 1095

Query 1076 CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
          |||
Sbjct 1097 CAAGGCTGAAACTTAAAGGAATT-GACGGA 1125

```

>gb|MG491514.1| Chlorococcum citrifforme strain ACSSI 200 small subunit ribosomal RNA gene, partial sequence

Length=1726

Score = 1731.6 bits (1919), Expect = 0E00
Identities = 1060/1110 (95%), Gaps = 16/1110 (1%)

Strand = Plus/Plus

```
Query 5 ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
|||||
Sbjct 24 ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 83

Query 65 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
|||||
Sbjct 84 AAATCAGTTATAGTTTATTTGATGGTACTTT-TACTCGG-ATAACCGTAGTAATCTAGA 141

Query 125 GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184
|||||
Sbjct 142 GCTAATACGTGCGTAAATCCCGACTTATGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 201

Query 185 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAECTTACGAATCGCACGGCCTTGTGCC 244
|||||
Sbjct 202 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAECTTACGAATCGCACGCCCTTGTGGC 261

Query 245 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC 304
|||||
Sbjct 262 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC 321

Query 305 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 364
|||||
Sbjct 322 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 381

Query 365 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 424
|||||
Sbjct 382 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 441

Query 425 AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 484
|||||
Sbjct 442 AGTGACAATAAATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGTACAATGTA 501

Query 485 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 544
|||||
Sbjct 502 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 561

Query 545 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCGGGTG 604
|||||
Sbjct 562 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCGGATG 621

Query 605 TGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
|||
Sbjct 622 TGTTGACGCGGTCTGCCTCTGGTATGTACTGCGTTTCGATGCATCTTTCTGCTGGGGACGA 681

Query 665 GCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724
|||||
Sbjct 682 GCTCCTGGGCTTAACTGTCTGGGACTCGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 741

Query 725 TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
|||||
Sbjct 742 TGTTCAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 801

Query 785 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC 844
|||||
Sbjct 802 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 860

Query 845 GTATTTTCATTGTCAGAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
|||||
Sbjct 861 GTATTTTCATTGTCAGAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCGAAAGCA 920

Query 904 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
|||||
```



```

Sbjct 321  |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||| 380
          ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG
Query 365  GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCACACGGGGAGGT 424
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct 381  GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCACACGGGGAGGT 440
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Query 425  AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 484
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct 441  AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGTACAATGTA 500
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Query 485  AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 544
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct 501  AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 560
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Query 545  GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGTG 604
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct 561  GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGTG 620
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Query 605  TGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct 621  TGTTGACGCGGTCTGCCTCTGGTATGTACTGCGTTTCGATGCATCTTTCTGCTGGGGACGA 680
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Query 665  GCTCCTGGGCTTAAGTGTCTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct 681  GCTCCTGGGCTTAAGTGTCTGGGACTCGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 740
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Query 725  TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct 741  TGTTCAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 800
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Query 785  CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTT 844
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct 801  CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 859
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Query 845  GTATTTTCATTGTCAGAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct 860  GTATTTTCATTGTCAGAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCGAAAGCA 919
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Query 904  TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct 920  TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 979
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Query 963  ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
          ||||||||||| | |||| |||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct 980  ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA- 1037
          ||||||||||| | |||| |||||||||||||||||||||||||||||||||||||||||||||||||||
Query 1021 TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCG 1075
          ||||||||||||||| ||||||||||| ||||||||||| ||||| ||||| || || ||
Sbjct 1038 TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCGGGGGGAGTATGGTTCG 1096
          ||||||||||||||| ||||||||||| ||||||||||| ||||| ||||| || || ||
Query 1076 CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
          ||||||| | ||||||| || || |||||
Sbjct 1098 CAAGGCTGAAACTTAAAGGAATT-GACGGA 1126
          ||||||| | ||||||| || || |||||

```

```

>dbj|AB983608.1| Chlorococcum oleofaciens gene for 18S rRNA, partial sequence, strain: SAG 213-11
gi|928192331|dbj|AB983609.1| Chlorococcum oleofaciens gene for 18S rRNA, partial sequence,
strain: UTEX 1770
gi|928192332|dbj|AB983610.1| Chlorococcum oleofaciens gene for 18S rRNA, partial sequence,
strain: UTEX 2224
gi|928192333|dbj|AB983611.1| Chlorococcum oleofaciens gene for 18S rRNA, partial sequence,
strain: SAG 66.80

```



```

Sbjct 740 TGTTCAAAGCAAGCCTACGCTCTGAATTTTTTTAGCATGGAATCACACGATAGGACTCTGG 799
Query 785 CCTATCTTGTGGTCTGTAGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC 844
      |||
Sbjct 800 CCTATCTTGTGGTCTGTAGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 858
Query 845 GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTATGAAAGACGAACTTCTGCG-AAGCA 903
      |||
Sbjct 859 GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTATGAAAGACGAACTTCTGCGAAAGCA 918
Query 904 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
      |||
Sbjct 919 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 978
Query 963 ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
      |||
Sbjct 979 ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA- 1036
Query 1021 TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCG 1075
      |||
Sbjct 1037 TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCGGGGGGAGTATGGTTCG 1095
Query 1076 CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
      |||
Sbjct 1097 CAAGGCTGAAACTTAAAGGAATT-GACGGA 1125

```

>gb|KM020103.1| Neosporangiococcum gelatinosum strain SAG 64.80 18S ribosomal RNA gene, partial sequence

Length=1765

Score = 1731.6 bits (1919), Expect = 0E00
Identities = 1060/1110 (95%), Gaps = 16/1110 (1%)
Strand = Plus/Plus

```

Query 5 ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAACTGCGAATGGCTCATT 64
      |||
Sbjct 24 ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAACTGCGAATGGCTCATT 83
Query 65 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
      |||
Sbjct 84 AAATCAGTTATAGTTTATTTGATGGTACTTT-TACTCGG-ATAACCGTAGTAATCTAGA 141
Query 125 GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184
      |||
Sbjct 142 GCTAATACGTGCGTAAATCCCGACTTATGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 201
Query 185 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAECTTACGAATCGCACGGCCTTGTGCC 244
      |||
Sbjct 202 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAECTTACGAATCGCACGCCCTTGTGGC 261
Query 245 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGCCTACC 304
      |||
Sbjct 262 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGCCTACC 321
Query 305 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 364
      |||
Sbjct 322 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 381
Query 365 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 424
      |||
Sbjct 382 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 441
Query 425 AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 484

```

```

Sbjct 442  |||...||| AGTGACAATAAATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGTACAATGTA 501
Query 485  AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGTAATTCCA 544
Sbjct 502  |||...||| AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGTAATTCCA 561
Query 545  GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTGGGGTG 604
Sbjct 562  |||...||| GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTGGGGTG 621
Query 605  TGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
Sbjct 622  |||...||| TGTTGACGCGGTCTGCCTCTGGTATGTACTGCGTTTCGATGCATCTTTCTGCTGGGGACGA 681
Query 665  GCTCCTGGGCTTAACTGCTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724
Sbjct 682  |||...||| GCTCCTGGGCTTAACTGCTGGGACTCGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 741
Query 725  TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
Sbjct 742  |||...||| TGTTCAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 801
Query 785  CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC 844
Sbjct 802  |||...||| CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 860
Query 845  GTATTTTCATTGTCAGAGGTGAAATTCCTGGATTATGAAAGACGAACTTCTGCG-AAGCA 903
Sbjct 861  |||...||| GTATTTTCATTGTCAGAGGTGAAATTCCTGGATTATGAAAGACGAACTTCTGCGAAAGCA 920
Query 904  TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
Sbjct 921  |||...||| TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 980
Query 963  ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
Sbjct 981  |||...||| ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA- 1038
Query 1021  TGACCCTGCCAGCA-CTTATGAGAAATYCAAAGTTTTT-GGTTCC--GGGGGA-TAWTGCCG 1075
Sbjct 1039  |||...||| TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCCGGGGGAGTATGGTCC 1097
Query 1076  CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
Sbjct 1099  |||...||| CAAGGCTGAAACTTAAAGGAATT-GACGGA 1127

```

>gb|KM020100.1| Chlorococcum citrifforme strain SAG 62.80 18S ribosomal RNA gene, partial sequence
Length=1770

Score = 1731.6 bits (1919), Expect = 0E00
Identities = 1060/1110 (95%), Gaps = 16/1110 (1%)
Strand = Plus/Plus

```

Query 5  ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
Sbjct 24  |||...||| ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 83
Query 65  AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
Sbjct 84  |||...||| AAATCAGTTATAGTTTATTTGATGGTACTTT-TACTCGG-ATAACCGTAGTAATCTAGA 141
Query 125  GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184

```

Sbjct	142	 GCTAATACGTGCGTAAATCCCGACTTATGGAAGGGACGTATTTATTAGATAAAAAGGCCAG	201
Query	185	CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAECTTACGAATCGCACGGCCTTGTGCC	244
Sbjct	202	 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAECTTACGAATCGCACGCCCTTGTGGC	261
Query	245	GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC	304
Sbjct	262	 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC	321
Query	305	ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG	364
Sbjct	322	 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG	381
Query	365	GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCACACGGGGAGGT	424
Sbjct	382	 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCACACGGGGAGGT	441
Query	425	AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA	484
Sbjct	442	 AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGTACAATGTA	501
Query	485	AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA	544
Sbjct	502	 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA	561
Query	545	GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG	604
Sbjct	562	 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGATG	621
Query	605	TGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG	664
Sbjct	622	 TGTTGACGCGGTCTGCCTCTGGTATGTACTGCGTTCGATGCATCTTTCTGCTGGGGACGA	681
Query	665	GCTCCTGGGCTTAAGTGTCTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG	724
Sbjct	682	 GCTCCTGGGCTTAAGTGTCTGGGACTCGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG	741
Query	725	TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG	784
Sbjct	742	 TGTTCAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG	801
Query	785	CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC	844
Sbjct	802	 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC	860
Query	845	GTATTTTCATTGTCAGAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCG-AAGCA	903
Sbjct	861	 GTATTTTCATTGTCAGAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCGAAAGCA	920
Query	904	TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT	962
Sbjct	921	 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT	980
Query	963	ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT	1020
Sbjct	981	 ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCATTGA-	1038
Query	1021	TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCG	1075
Sbjct	1039	 TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCGGGGGGAGTATGGTCG	1097
Query	1076	CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104	

Sbjct 1099 ||||| ||||| ||| || |||||
 CAAGGCTGAACTTAAAGGAATT-GACGGA 1127

>gb|JN968580.1| Chlorococcum sphacosum strain SAG 66.80 18S ribosomal RNA gene, partial sequence
 gi|379318163|gb|JN968584.1| Neosporangiococcum gelatinosum strain SAG 64.80 18S ribosomal RNA gene,
 partial sequence
 Length=1743

Score = 1731.6 bits (1919), Expect = 0E00
 Identities = 1060/1110 (95%), Gaps = 16/1110 (1%)
 Strand = Plus/Plus

Query	5	ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAACTGCGAATGGCTCATT	64
Sbjct	22	ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAACTGCGAATGGCTCATT	81
Query	65	AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA	124
Sbjct	82	AAATCAGTTATAGTTTATTTGATGGTACTTT-TACTCGG-ATAACCGTAGTAATCTAGA	139
Query	125	GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAGGCCAG	184
Sbjct	140	GCTAATACGTGCGTAAATCCCGACTTATGGAAGGGACGTATTTATTAGATAAAAGGCCAG	199
Query	185	CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAECTTCACGAATCGCACGGCCTTGTGCC	244
Sbjct	200	CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAECTTCACGAATCGCACGCCCTTGTGGC	259
Query	245	GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC	304
Sbjct	260	GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC	319
Query	305	ATGGTGGTAACGGGTGACGGAGGATTAGGGTTTCGATTCCGGAGAGGGAGCCTGAGAAACG	364
Sbjct	320	ATGGTGGTAACGGGTGACGGAGGATTAGGGTTTCGATTCCGGAGAGGGAGCCTGAGAAACG	379
Query	365	GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT	424
Sbjct	380	GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT	439
Query	425	AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA	484
Sbjct	440	AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGTACAATGTA	499
Query	485	AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA	544
Sbjct	500	AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA	559
Query	545	GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG	604
Sbjct	560	GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGATG	619
Query	605	TGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG	664
Sbjct	620	TGTTGACGCGGTCTGCCTCTGGTATGTACTGCGTTTCGATGCATCTTTCTGCTGGGGACGA	679
Query	665	GCTCCTGGGCTTAAGTGTCTGGGACCTGGAATCAGCGAAGTGACCTTGGCAACAAGAG	724
Sbjct	680	GCTCCTGGGCTTAAGTGTCTGGGACTCGGAATCAGCGAAGTGACCTTGGCAACAAGAG	739
Query	725	TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG	784
Sbjct	740	TGTTCAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG	799

```

Query 785 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC 844
      |||
Sbjct 800 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 858

Query 845 GTATTTTCATTGTCTAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
      |||
Sbjct 859 GTATTTTCATTGTCTAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCGAAAGCA 918

Query 904 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
      |||
Sbjct 919 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 978

Query 963 ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
      |||
Sbjct 979 ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA- 1036

Query 1021 TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTCC--GGGGGA-TAWTGCCG 1075
      |||
Sbjct 1037 TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCCGGGGGAGTATGGTTCG 1095

Query 1076 CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
      |||
Sbjct 1097 CAAGGCTGAAACTTAAAGGAATT-GACGGA 1125

```

>emb|Z28972.1| P.insigne mRNA for nuclear encoded small subunit ribosomal RNA
Length=1788

Score = 1731.6 bits (1919), Expect = 0E00
Identities = 1060/1110 (95%), Gaps = 16/1110 (1%)
Strand = Plus/Plus

```

Query 5 ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
      |||
Sbjct 42 ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 101

Query 65 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
      |||
Sbjct 102 AAATCAGTTATAGTTTATTTGATGGTACTTT-TACTCGG-ATAACCGTAGTAATTCTAGA 159

Query 125 GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAGGCCAG 184
      |||
Sbjct 160 GCTAATACGTGCGTAAATCCCGACTTATGGAAGGGACGTATTTATTAGATAAAAGGCCAG 219

Query 185 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCACGGCCTTGTGCC 244
      |||
Sbjct 220 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCACGGCCTTGTGGC 279

Query 245 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACC 304
      |||
Sbjct 280 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACC 339

Query 305 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 364
      |||
Sbjct 340 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 399

Query 365 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCACACGGGGAGGT 424
      |||
Sbjct 400 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCACACGGGGAGGT 459

Query 425 AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 484
      |||
Sbjct 460 AGTGACAATAAATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGTACAATGTA 519

```

```

Query 485  AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 544
          |||
Sbjct 520  AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 579

Query 545  GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG 604
          |||
Sbjct 580  GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGATG 639

Query 605  TGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
          |||
Sbjct 640  TGTTGACGCGGTCTGCCTCTGGTATGTACTGCGTTTCGATGCATCTTTCTGCTGGGGACGA 699

Query 665  GCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724
          |||
Sbjct 700  GCTCCTGGGCTTAACTGTCTGGGACTCGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 759

Query 725  TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
          |||
Sbjct 760  TGTTCAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 819

Query 785  CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC 844
          |||
Sbjct 820  CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 878

Query 845  GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
          |||
Sbjct 879  GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCGAAAGCA 938

Query 904  TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
          |||
Sbjct 939  TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 998

Query 963  ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
          |||
Sbjct 999  ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA- 1056

Query 1021 TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTTC--GGGGGA-TAWTGCCG 1075
          |||
Sbjct 1057 TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCCGGGGGAGTATGGTTCG 1115

Query 1076 CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
          |||
Sbjct 1117 CAAGGCTGAAACTTAAAGGAATT-GACGGA 1145

```

>gb|KT279470.1| Tetracystis sp. YACCYB50 18S ribosomal RNA gene, partial sequence
Length=1597

Score = 1730.7 bits (1918), Expect = 0E00
Identities = 1022/1049 (97%), Gaps = 14/1049 (1%)
Strand = Plus/Plus

```

Query 66  AATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGAG 125
          |||
Sbjct 1  AATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGAG 60

Query 126  CTAATACATGCGTAAATCCCRACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAGC 185
          |||
Sbjct 61  CTAATACATGCGTAAATCCCRACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAGC 120

Query 186  CGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCACGGCCTTGTGCCG 245
          |||
Sbjct 121  CGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCACGGCCTCGTGCCG 180

```

```

Query 246 GCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACCA 305
      |||
Sbjct 181 GCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACCA 240

Query 306 TGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACGG 365
      |||
Sbjct 241 TGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACGG 300

Query 366 CTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGTA 425
      |||
Sbjct 301 CTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGTA 360

Query 426 GTGACAATAAATAACAATACTGGGCGTTTACGCTCGGTAATTGGAATGAGAACAATGTAA 485
      |||
Sbjct 361 GTGACAATAAATAACAATACTGGGCGTTTACGCTCGGTAATTGGAATGAGAACAATGTAA 420

Query 486 ATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCAG 545
      |||
Sbjct 421 ATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCAG 480

Query 546 CTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGTGT 605
      |||
Sbjct 481 CTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGTGT 540

Query 606 GTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGGG 665
      |||
Sbjct 541 GTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGGG 600

Query 666 CTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAGT 725
      |||
Sbjct 601 CTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAGT 660

Query 726 GTTCAAAGCAAGCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGGC 785
      |||
Sbjct 661 GTTCAAAGCAAGCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGGC 720

Query 786 CTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTCG 845
      |||
Sbjct 721 CTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTCG 779

Query 846 TATTTTCATTGTCAGAGGTGAAATTTCTTGGATTTATGAAAGACGAACTTCTGCG-AAGCAT 904
      |||
Sbjct 780 TATTTTCATTGTCAGAGGTGAAATTTCTTGGATTTATGAAAGACGAACTTCTGCGAAAGCAT 839

Query 905 TTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGATA 963
      |||
Sbjct 840 TTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGATA 899

Query 964 CCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCCATTGATT 1021
      |||
Sbjct 900 CCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA-T 957

Query 1022 GACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTTC--GGGGGA-TAWTGCCGC 1076
      |||
Sbjct 958 GACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCCGGGGGAGTATGGTCCG 1017

Query 1077 AAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
      |||
Sbjct 1018 AAGGCTGAAACTTAAAGGAATT-GACGGA 1045

```

>gb|KJ635659.1| Oophila sp. KY2008 18S ribosomal RNA gene, partial sequence
Length=1671

Score = 1727.1 bits (1914), Expect = 0E00
Identities = 1059/1110 (95%), Gaps = 16/1110 (1%)
Strand = Plus/Plus

```
Query 5 ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
      ||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 20 ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 79

Query 65 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
      ||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 80 AAATCAGTTATAGTTTATTTGATGGTACTTT-TACTCGG-ATAACCGTAGTAATTCTAGA 137

Query 125 GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184
      ||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 138 GCTAATACGTGCGTAAATCCCGACTTATGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 197

Query 185 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCACGGCCTTGTGCC 244
      ||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 198 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCACGCCCTTGTGGC 257

Query 245 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACC 304
      ||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 258 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACC 317

Query 305 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 364
      ||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 318 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 377

Query 365 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 424
      ||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 378 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 437

Query 425 AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 484
      ||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 438 AGTGACAATAAATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGTACAATGTA 497

Query 485 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGTAATTCCA 544
      ||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 498 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGTAATTCCA 557

Query 545 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTGGGGTG 604
      ||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 558 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTGGGATG 617

Query 605 TGTGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
      ||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 618 TGTGACGCGGTCTGCCTCTGGTATGTACTGCGTTCGATGCATCTTTCTGCTGGGGACGA 677

Query 665 GCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724
      ||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 678 GCTCCTGGGCTTAACTGCTTGGGACTCGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 737

Query 725 TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
      ||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 738 TGTTCAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 797

Query 785 CCTATCTTGTGGTCTGTAGGACCGAGTAATGATTAAGAGGGACAGTCGGGGCATTTC 844
      ||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 798 CCTATCTTGTGGTCTGTAGGACCGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 856

Query 845 GTATTTTCATTGTCAGAGGTGAAATTCCTTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
      ||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 857 GTATTTTCATTGTCAGAGGTGAAATTCCTTGGATTTATGAAAGACGAACTTCTGCGAAAGCA 916
```


Sbjct	140	 GCTAATACGTGCGTAAATCCCGACTTATGGAAGGGACGTATTTATTAGATAAAAAGGCCAG	199
Query	185	CCGGGCTTGCCGACCTTAGGCGAATCATGATAAECTTACGAATCGCACGGCCTTGTGCC	244
Sbjct	200	 CCGGGCTTGCCGACCTTAGGCGAATCATGATAAECTTACGAATCGCACGCCCTCGTGGC	259
Query	245	GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC	304
Sbjct	260	 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC	319
Query	305	ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG	364
Sbjct	320	 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG	379
Query	365	GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCACACGGGGAGGT	424
Sbjct	380	 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCACACGGGGAGGT	439
Query	425	AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA	484
Sbjct	440	 AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGTACAATGTA	499
Query	485	AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA	544
Sbjct	500	 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA	559
Query	545	GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG	604
Sbjct	560	 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGATG	619
Query	605	TGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG	664
Sbjct	620	 TGTTGACGCGGTCTGCCTCTGGTATGTACTGCGTTCGATGCATCTTTCTGCTGGGGACGA	679
Query	665	GCTCCTGGGCTTAAGTGTCTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG	724
Sbjct	680	 GCTCCTGGGCTTAAGTGTCTGGGACTCGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG	739
Query	725	TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG	784
Sbjct	740	 TGTTCAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG	799
Query	785	CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC	844
Sbjct	800	 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC	858
Query	845	GTATTTTCATTGTCAGAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCG-AAGCA	903
Sbjct	859	 GTATTTTCATTGTCAGAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCGAAAGCA	918
Query	904	TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT	962
Sbjct	919	 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT	978
Query	963	ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT	1020
Sbjct	979	 ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCATTGA-	1036
Query	1021	TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCG	1075
Sbjct	1037	 TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCGGGGGGAGTATGGTTCG	1095
Query	1076	CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104	

Sbjct 1097 CAAGGCTGAAACTTAAAGGAATT-GACGGA 1125

>gb|KM020101.1| Chlorococcum oleofaciens strain SAG 213-11 18S ribosomal RNA gene, partial sequence

Length=1770

Score = 1727.1 bits (1914), Expect = 0E00
Identities = 1059/1110 (95%), Gaps = 16/1110 (1%)
Strand = Plus/Plus

```
Query 5 ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
      ||||| ||||| ||| || |||||
Sbjct 24 ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 83

Query 65 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
      ||||| ||||| ||||| ||| ||| ||| ||||| ||| |||||
Sbjct 84 AAATCAGTTATAGTTTATTTGATGGGACTTT-TACTCGG-ATAACCGTAGTAATCTAGA 141

Query 125 GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 142 GCTAATACGTGCGTAAATCCCGACTTATGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 201

Query 185 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAECTTCACGAATCGCACGGCCTTGTGCC 244
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 202 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAECTTCACGAATCGCACGCCCTTGTGCC 261

Query 245 GCGCATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC 304
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 262 GCGCATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC 321

Query 305 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 364
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 322 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 381

Query 365 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 424
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 382 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 441

Query 425 AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 484
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 442 AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGTACAATGTA 501

Query 485 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 544
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 502 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 561

Query 545 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCGGGTG 604
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 562 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCGGATG 621

Query 605 TGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
      ||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 622 TGTTGACGCGGTCTGCCTCTGGTATGTACTGCGTTCGATGCATCTTTCTGCTGGGGACGA 681

Query 665 GCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 682 GCTCCTGGGCTTAACTGTCTGGGACTCGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 741

Query 725 TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 742 TGTTCAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 801
```

```

Query 785 CCTATCTTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC 844
      |||
Sbjct 802 CCTATCTTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 860

Query 845 GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
      |||
Sbjct 861 GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCGAAAGCA 920

Query 904 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
      |||
Sbjct 921 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 980

Query 963 ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
      |||
Sbjct 981 ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA- 1038

Query 1021 TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTCC--GGGGGA-TAWTGCCG 1075
      |||
Sbjct 1039 TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCCGGGGGAGTATGGTTCG 1097

Query 1076 CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
      |||
Sbjct 1099 CAAGGCTGAAACTTAAAGGAATT-GACGGA 1127

```

>gb|KM020023.1| Chlorococcum sp. SAG 2467 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 26S ribosomal RNA gene, partial sequence
Length=2429

Score = 1727.1 bits (1914), Expect = 0E00
Identities = 1059/1110 (95%), Gaps = 16/1110 (1%)
Strand = Plus/Plus

```

Query 5 ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
      |||
Sbjct 24 ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 83

Query 65 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
      |||
Sbjct 84 AAATCAGTTATAGTTTATTTGATGGTACTTT-TACTCGG-ATAACCGTAGTAATTCTAGA 141

Query 125 GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184
      |||
Sbjct 142 GCTAATACGTGCGTAAATCCCGACTTATGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 201

Query 185 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCACGGCCTGTGCC 244
      |||
Sbjct 202 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCACGCCCTCGTGCC 261

Query 245 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACC 304
      |||
Sbjct 262 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACC 321

Query 305 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 364
      |||
Sbjct 322 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 381

Query 365 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 424
      |||
Sbjct 382 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 441

Query 425 AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 484
      |||

```

```

Sbjct 442 AGTGACAATAAATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGTACAATGTA 501
Query 485 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 544
|||||
Sbjct 502 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 561
Query 545 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG 604
|||||
Sbjct 562 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGATG 621
Query 605 TGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
|||
Sbjct 622 TGTTGACGCGGTCTGCCTCTGGTATGTACTGCGTTTCGATGCATCTTTCTGCTGGGGACGA 681
Query 665 GCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724
|||||
Sbjct 682 GCTCCTGGGCTTAACTGCTTGGGACTCGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 741
Query 725 TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
|||||
Sbjct 742 TGTTCAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 801
Query 785 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC 844
|||||
Sbjct 802 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 860
Query 845 GTATTTTCATTGTCAGAGGTGAAATTCCTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
|||||
Sbjct 861 GTATTTTCATTGTCAGAGGTGAAATTCCTGGATTTATGAAAGACGAACTTCTGCGAAAGCA 920
Query 904 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
|||||
Sbjct 921 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 980
Query 963 ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
|||||
Sbjct 981 ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA- 1038
Query 1021 TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCG 1075
|||||
Sbjct 1039 TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCGGGGGAGTATGGTCTG 1097
Query 1076 CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
|||||
Sbjct 1099 CAAGGCTGAAACTTAAAGGAATT-GACGGA 1127

```

>gb|KF144183.1| Chlorococcum cf. sphacosum SAG 2398 isolate GRK6-DB1 18S ribosomal RNA gene, partial sequence

Length=1741

Score = 1727.1 bits (1914), Expect = 0E00
Identities = 1059/1110 (95%), Gaps = 16/1110 (1%)
Strand = Plus/Plus

```

Query 5 ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
|||||
Sbjct 14 ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 73
Query 65 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
|||||
Sbjct 74 AAATCAGTTATAGTTTATTTGATGGTACTTT-TACTCGG-ATAACCGTAGTAATCTAGA 131
Query 125 GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184

```



```

Sbjct 800 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 858
Query 845 GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
Sbjct 859 GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAAATCTGCGAAAGCA 918
Query 904 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
Sbjct 919 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 978
Query 963 ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
Sbjct 979 ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATT-AA 1036
Query 1021 TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCG 1075
Sbjct 1037 TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCGGGGGGAGTATGGTTCG 1096
Query 1076 CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
Sbjct 1097 CAAGGCTGAAACTTAAAGGAAT-TGACGGA 1125

```

>emb|FR865591.1| Chlorococcum sp. CCAP 11/52 genomic DNA containing 18S rRNA gene, ITS1, 5.8S rRNA gene, ITS2, 28S rRNA gene, culture collection CCAP 11/52
Length=2518

Score = 1727.1 bits (1914), Expect = 0E00
Identities = 1059/1110 (95%), Gaps = 16/1110 (1%)
Strand = Plus/Plus

```

Query 5 ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
Sbjct 23 ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 82
Query 65 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
Sbjct 83 AAATCAGTTATAGTTTATTTGATGGTACTTT-TACTCGG-ATAACCGTAGTAATCTAGA 140
Query 125 GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184
Sbjct 141 GCTAATACGTGCGTAAATCCCGACTTATGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 200
Query 185 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAACTTACGAATCGCACGGCCTTGTGCC 244
Sbjct 201 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAACTTACGAATCGCACGCCCTCGTGGC 260
Query 245 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACC 304
Sbjct 261 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACC 320
Query 305 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 364
Sbjct 321 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 380
Query 365 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 424
Sbjct 381 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 440
Query 425 AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 484
Sbjct 441 AGTGACAATAAATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGTACAATGTA 500

```

```

Query 485  AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 544
          |||
Sbjct 501  AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 560

Query 545  GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG 604
          |||
Sbjct 561  GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGATG 620

Query 605  TGTTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
          |||
Sbjct 621  TGTTCGACGCGGTCTGCCTCTGGTATGTACTGCGTTTCGATGCATCTTTCTGCTGGGGACGA 680

Query 665  GCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724
          |||
Sbjct 681  GCTCCTGGGCTTAACTGTCTGGGACTCGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 740

Query 725  TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
          |||
Sbjct 741  TGTTCAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 800

Query 785  CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC 844
          |||
Sbjct 801  CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 859

Query 845  GTATTTTCATTGTCAGAGGTGAAATTCCTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
          |||
Sbjct 860  GTATTTTCATTGTCAGAGGTGAAATTCCTGGATTTATGAAAGACGAACTTCTGCGAAAGCA 919

Query 904  TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
          |||
Sbjct 920  TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 979

Query 963  ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
          |||
Sbjct 980  ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA- 1037

Query 1021 TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTCC--GGGGGA-TAWTGCCG 1075
          |||
Sbjct 1038 TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCCGGGGGGAGTATGGTTCG 1096

Query 1076 CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
          |||
Sbjct 1098 CAAGGCTGAAACTTAAAGGAATT-GACGGA 1126

```

>gb|GU117582.1| Pleurastrum sp. CCCryo 006-99 18S small subunit ribosomal RNA gene, partial sequence

Length=1712

Score = 1727.1 bits (1914), Expect = 0E00
Identities = 1059/1110 (95%), Gaps = 16/1110 (1%)
Strand = Plus/Plus

```

Query 5  ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
          |||
Sbjct 1  ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 60

Query 65  AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
          |||
Sbjct 61  AAATCAGTTATAGTTTATTTGATGGTACCTT-TACTCGG-ATAACCGTAGTAATTCTAGA 118

Query 125  GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184
          |||
Sbjct 119  GCTAATACGTGCGTAAATCCCGACTTATGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 178

```

Query	185	CCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCACGGCCTTGTGCC 	244
Sbjct	179	CCGGGCTTGCCCGAACTTAGGCGAATCATGATAACTTCACGAATCGCACGCCCTTGTGCC	238
Query	245	GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC 	304
Sbjct	239	GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC	298
Query	305	ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 	364
Sbjct	299	ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG	358
Query	365	GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 	424
Sbjct	359	GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT	418
Query	425	AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 	484
Sbjct	419	AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGTACAATGTA	478
Query	485	AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 	544
Sbjct	479	AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA	538
Query	545	GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAGCTCGTAGTTGGATTTCCGGGTG 	604
Sbjct	539	GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAGCTCGTAGTTGGATTTCCGGATG	598
Query	605	TGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 	664
Sbjct	599	TGTTGACGCGGTCTGCCTCTGGTATGTACTGCGTTCGATGCATCTTTCTGCTGGGGACGA	658
Query	665	GCTCCTGGGCTTAAGTCTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 	724
Sbjct	659	GCTCCTGGGCTTAAGTCTGGGACTCGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG	718
Query	725	TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 	784
Sbjct	719	TGTTCAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG	778
Query	785	CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC 	844
Sbjct	779	CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC	837
Query	845	GTATTTTCATTGTGTCAGAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 	903
Sbjct	838	GTATTTTCATTGTGTCAGAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCGAAAGCA	897
Query	904	TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 	962
Sbjct	898	TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT	957
Query	963	ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 	1020
Sbjct	958	ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA-	1015
Query	1021	TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCG 	1075
Sbjct	1016	TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCGGGGGAGTATGGTTCG	1074
Query	1076	CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104 	
Sbjct	1076	CAAGGCTGAAACTTAAAGGAATT-GACGGA 1104	


```

Sbjct 802 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 860
Query 845 GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
      |||
Sbjct 861 GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCGAAAGCA 920
Query 904 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
      |||
Sbjct 921 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 980
Query 963 ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
      |||
Sbjct 981 ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCATTGA- 1038
Query 1021 TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCG 1075
      |||
Sbjct 1039 TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCGGGGGGAGTATGGTTCG 1097
Query 1076 CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
      |||
Sbjct 1099 CAAGGCTGAAACTTAAAGGAATT-GACGGA 1127

```

>gb|FJ946902.1| Chlorococcales sp. II4 18S ribosomal RNA gene, partial sequence
Length=1786

Score = 1727.1 bits (1914), Expect = 0E00
Identities = 1059/1110 (95%), Gaps = 16/1110 (1%)
Strand = Plus/Plus

```

Query 5 ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
      |||
Sbjct 40 ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 99
Query 65 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
      |||
Sbjct 100 AAATCAGTTATAGTTTATTTGATGGTACCTT-TACTCGG-ATAACCGTAGTAATCTAGA 157
Query 125 GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184
      |||
Sbjct 158 GCTAATACGTGCGTAAATCCCGACTTATGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 217
Query 185 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAECTTACGAATCGCACGGCCTTGTGCC 244
      |||
Sbjct 218 CCGGGCTTGCCCGAACTTAGGCGAATCATGATAAECTTACGAATCGCACGCCCTTGTGGC 277
Query 245 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCACC 304
      |||
Sbjct 278 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCACC 337
Query 305 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 364
      |||
Sbjct 338 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 397
Query 365 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCACACGGGGAGGT 424
      |||
Sbjct 398 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCACACGGGGAGGT 457
Query 425 AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 484
      |||
Sbjct 458 AGTGACAATAAATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGTACAATGTA 517
Query 485 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGTAATCCA 544
      |||

```


Sbjct 202 CCGGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCACGCCCTTGTGG 261

Query 244 CGGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTAC 303
 |||
 Sbjct 262 CGGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTAC 321

Query 304 CATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAAC 363
 |||
 Sbjct 322 CATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAAC 381

Query 364 GGCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGG 423
 |||
 Sbjct 382 GGCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGG 441

Query 424 TAGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGT 483
 |||
 Sbjct 442 TAGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGTACAATGT 501

Query 484 AAATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCC 543
 |||
 Sbjct 502 AAATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCC 561

Query 544 AGCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCGGGT 603
 |||
 Sbjct 562 AGCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCGGAT 621

Query 604 GTGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACG 663
 |||
 Sbjct 622 GTGTTGACGCGGTCTGCCTCTGGTATGTACTGCGTTCGATGCATCTTTCTGCTGGGGACG 681

Query 664 GGCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGA 723
 |||
 Sbjct 682 AGCTCCTGGGCTTAACTGCTTGGGACTCGGAATCAGCGAAGTGACCTTGAGCAAACAAGA 741

Query 724 GTGTTCAAAGCAAGCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTG 783
 |||
 Sbjct 742 GTGTTCAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTG 801

Query 784 GCCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTT 843
 |||
 Sbjct 802 GCCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TT 860

Query 844 CGTATTTTCATTGTCAGAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCG-AAGC 902
 |||
 Sbjct 861 CGTATTTTCATTGTCAGAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCGAAAGC 920

Query 903 ATTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGA 961
 |||
 Sbjct 921 ATTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGA 980

Query 962 TACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGA 1019
 |||
 Sbjct 981 TACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA 1039

Query 1020 TTGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTTC--GGGGGA-TAWTGCC 1074
 |||
 Sbjct 1040 -TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCCGGGGGAGTATGGTC 1098

Query 1075 GCAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
 |||
 Sbjct 1099 GCAAGGCTGAAACTTAAAGGAATT-GACGGA 1128

>gb|MG491513.1| Chlorococcum sphacosum strain ACSSI 209 small subunit ribosomal RNA gene, partial sequence

Length=1672

Score = 1724.4 bits (1911), Expect = 0E00
Identities = 1056/1106 (95%), Gaps = 16/1106 (1%)
Strand = Plus/Plus

```
Query 9      AGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATTAAT 68
           || |||||
Sbjct 1      AGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATTAAT 60

Query 69     CAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGAGCTA 128
           |||||
Sbjct 61     CAGTTATAGTTTATTTGATGGTACTTTT-TACTCGG-ATAACCGTAGTAATTCTAGAGCTA 118

Query 129    ATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAGCCGG 188
           |||||
Sbjct 119    ATACGTGCGTAAATCCCGACTTATGGAAGGGACGTATTTATTAGATAAAAAGGCCAGCCGG 178

Query 189    GCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCACGGCCTTGTGCCGGCG 248
           |||||
Sbjct 179    GCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCACGGCCTTGTGCCGGCG 238

Query 249    ATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACCATGG 308
           |||||
Sbjct 239    ATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACCATGG 298

Query 309    TGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACGGCTA 368
           |||||
Sbjct 299    TGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACGGCTA 358

Query 369    CCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGTAGTG 428
           |||||
Sbjct 359    CCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGTAGTG 418

Query 429    ACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTAAATA 488
           |||||
Sbjct 419    ACAATAAATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGTACAATGTAAATA 478

Query 489    TCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGGTAATTCAGCTC 548
           |||||
Sbjct 479    TCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGGTAATTCAGCTC 538

Query 549    CAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGTGTGTC 608
           |||||
Sbjct 539    CAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGATGTGTT 598

Query 609    GACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTCTGCTGGGGACGGGCTC 668
           |||||
Sbjct 599    GACGCGGTCTGCCTCTGGTATGTACTGCGTTCGATGCATCTTCTGCTGGGGACGAGCTC 658

Query 669    CTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAGTGTT 728
           |||||
Sbjct 659    CTGGGCTTAACTGTCTGGGACTCGGAATCAGCGAAGTGACCTTGAGCAAACAAGAGTGTT 718

Query 729    CAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGGCCTA 788
           |||||
Sbjct 719    CAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGGCCTA 778

Query 789    TCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTCGTAT 848
           |||||
Sbjct 779    TCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTCGTAT 837
```

```

Query 849 TTCATTGTCAGAGGTGAAATTCTTGGATTATGAAAGACGAACTTCTGCG-AAGCATTTG 907
          |||
Sbjct 838 TTCATTGTCAGAGGTGAAATTCTTGGATTATGAAAGACGAACTTCTGCGAAAGCATTTG 897

Query 908 CCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGATACCG 966
          |||
Sbjct 898 CCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGATACCG 957

Query 967 TCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCCATTGATTGAC 1024
          |||
Sbjct 958 TCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA-TGAC 1015

Query 1025 CCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCGCAAG 1079
          |||
Sbjct 1016 CCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCCGGGGGAGTATGGTCGCAAG 1075

Query 1080 GCT-TGACTTAAGGGAGTTGGACGGA 1104
          |||
Sbjct 1076 GCTGAAACTTAAAGGAATT-GACGGA 1100

```

>gb|AY122332.1| Chlorococcum robustum clone Kr_86_30 18S ribosomal RNA gene, partial sequence
Length=1764

Score = 1723.5 bits (1910), Expect = 0E00
Identities = 1058/1110 (95%), Gaps = 16/1110 (1%)
Strand = Plus/Plus

```

Query 5 ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAACTGCGAATGGCTCATT 64
          |||
Sbjct 27 ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAACTGCGAATGGCTCATT 86

Query 65 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
          |||
Sbjct 87 AAATCAGTTATAGTTTATTTGATGGTACTTT-TACTCGG-ATAACCGTAGTAATTCTAGA 144

Query 125 GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184
          |||
Sbjct 145 GCTAATACGTGCGTAAATCCCNACTTATGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 204

Query 185 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCACGGCCTTGTGCC 244
          |||
Sbjct 205 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCACGGCCTCGTGCC 264

Query 245 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCTACC 304
          |||
Sbjct 265 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCTACC 324

Query 305 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 364
          |||
Sbjct 325 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 384

Query 365 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 424
          |||
Sbjct 385 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 444

Query 425 AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 484
          |||
Sbjct 445 AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGTACAATGTA 504

Query 485 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 544
          |||
Sbjct 505 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 564

```

```

Query 545 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG 604
          |||
Sbjct 565 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGATG 624

Query 605 TGTTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
          |||
Sbjct 625 TGTTCGACGCGGTCTGCCTCTGGTATGTACTGCGTTCGATGCATCTTTCTGCTGGGGACGA 684

Query 665 GCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724
          |||
Sbjct 685 GCTCCTGGGCTTAACTGCTTGGGACTCGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 744

Query 725 TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
          |||
Sbjct 745 TGTTCAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 804

Query 785 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC 844
          |||
Sbjct 805 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 863

Query 845 GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
          |||
Sbjct 864 GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCGAAAGCA 923

Query 904 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
          |||
Sbjct 924 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 983

Query 963 ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
          |||
Sbjct 984 ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA- 1041

Query 1021 TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCG 1075
          |||
Sbjct 1042 TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCCGGGGGAGTATGGTTCG 1100

Query 1076 CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
          |||
Sbjct 1102 CAAGGCTGAAACTTAAAGGAATT-GACGGA 1130

```

>gb|U41176.1|COU41176 Chlorococcum oleofaciens 18S ribosomal RNA gene
Length=1745

Score = 1723.5 bits (1910), Expect = 0E00
Identities = 1058/1110 (95%), Gaps = 16/1110 (1%)
Strand = Plus/Plus

```

Query 5 ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
          |||
Sbjct 23 ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 82

Query 65 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
          |||
Sbjct 83 AAATCAGTTATAGTTTATTTGATGGTACTTT-TACTCGG-ATAACCGTAGTAATTCTAGA 140

Query 125 GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184
          |||
Sbjct 141 GCTAATACGTGCGTAAATCCCGACTTATGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 200

Query 185 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCACGGCCTTGTGCC 244
          |||
Sbjct 201 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCACGGCCTTGTGGC 260

```

```

Query 245  GCGGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC 304
          |||
Sbjct 261  GCGGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC 320

Query 305  ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 364
          |||
Sbjct 321  ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 380

Query 365  GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 424
          |||
Sbjct 381  GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 440

Query 425  AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 484
          |||
Sbjct 441  AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGTACAATGTA 500

Query 485  AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 544
          |||
Sbjct 501  AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 560

Query 545  GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGTG 604
          |||
Sbjct 561  GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGTG 620

Query 605  TGTTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
          |||
Sbjct 621  TGTTCGACGCGGTCTGCCTCTGGTATGTACTGCGTTTCGATGCATCTNTCTGCTGGGGACGA 680

Query 665  GCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724
          |||
Sbjct 681  GCTCCTGGGCTTAACTGCTTGGGACTCGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 740

Query 725  TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
          |||
Sbjct 741  TGTTCAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 800

Query 785  CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC 844
          |||
Sbjct 801  CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 859

Query 845  GTATTTTCATTGTCAGAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
          |||
Sbjct 860  GTATTTTCATTGTCAGAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCGAAAGCA 919

Query 904  TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
          |||
Sbjct 920  TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 979

Query 963  ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
          |||
Sbjct 980  ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA- 1037

Query 1021 TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCG 1075
          |||
Sbjct 1038 TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCGGGGGGAGTATGGTTCG 1096

Query 1076 CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
          |||
Sbjct 1098 CAAGGCTGAAACTTAAAGGAATT-GACGGA 1126

```

>gb|MG491216.1| Chlorococcum oleofaciens strain CAMU MZ-Ch4 small subunit ribosomal RNA gene, partial sequence
Length=1689


```

Sbjct 539 AATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGATGTGTTG 598
Query 610 ACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGGGCTCC 669
      |||
Sbjct 599 ACGCGGTCTGCCTCTGGTATGTACTGCGTTTCGATGCATCTTTCTGCTGGGGACGAGCTCC 658
Query 670 TGGGCTTAACTGCTTGGGACTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAGTGTTTC 729
      |||
Sbjct 659 TGGGCTTAACTGCTTGGGACTCAGGAATCAGCGAAGTGACCTTGAGCAAACAAGAGTGTTTC 718
Query 730 AAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGGCCTAT 789
      |||
Sbjct 719 AAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGGCCTAT 778
Query 790 CTTGTTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTCGTATT 849
      |||
Sbjct 779 CTTGTTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTCGTATT 837
Query 850 TCATTGTCAGAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCG-AAAGCATTGTC 908
      |||
Sbjct 838 TCATTGTCAGAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCGAAAGCATTGTC 897
Query 909 CAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGATACCGT 967
      |||
Sbjct 898 CAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGATACCGT 957
Query 968 CGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGATTGACC 1025
      |||
Sbjct 958 CGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA-TGACC 1015
Query 1026 CTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCGCAAGG 1080
      |||
Sbjct 1016 CTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCCGGGGGAGTATGGTCGCAAGG 1075
Query 1081 CT-TGACTTAAGGGAGTTGGACGGA 1104
      ||
Sbjct 1076 CTGAAACTTAAAGGAATT-GACGGA 1099

```

>gb|KR607491.1| Chlorococcum oleofaciens strain SAG 213-11 small subunit ribosomal RNA gene, partial sequence

Length=1716

Score = 1721.7 bits (1908), Expect = 0E00
Identities = 1054/1103 (95%), Gaps = 16/1103 (1%)
Strand = Plus/Plus

```

Query 12 CATGCATGCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATTAATCAG 71
      |||
Sbjct 2 CATGCATGCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATTAATCAG 61
Query 72 TTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGAGCTAATA 131
      |||
Sbjct 62 TTATAGTTTATTTGATGGTACTTT-TACTCGG-ATAACCGTAGTAATTCTAGAGCTAATA 119
Query 132 CATGCGTAAATCCCAGACTTCTGGAAGGGACGTATTTATTAGATAAAAGGCCAGCCGGGCT 191
      |||
Sbjct 120 CGTGCGTAAATCCCAGACTTATGGAAGGGACGTATTTATTAGATAAAAGGCCAGCCGGGCT 179
Query 192 TGCCCGACCTTAGGCGAATCATGATAAATTACGAATCGCACGGCCTTGTGCCGGCGATG 251
      |||
Sbjct 180 TGCCCGACCTTAGGCGAATCATGATAAATTACGAATCGCACGGCCTTGTGGCGGCGATG 239
Query 252 TTTCAATCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCACCATGGTGG 311

```

```

Sbjct 240  |||...||| 299
Query 312  TAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAAACGGCTACCA 371
Sbjct 300  |||...||| 359
Query 372  CATCCAAGGAAGGCAGCAGGCGCAAATTACCCAATCCCGACACGGGGAGGTAGTGACA 431
Sbjct 360  |||...||| 419
Query 432  ATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTAAATATCT 491
Sbjct 420  |||...||| 479
Query 492  TAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCAGCTCCAA 551
Sbjct 480  |||...||| 539
Query 552  TAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGTGTGTCGAC 611
Sbjct 540  |||...||| 599
Query 612  GCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGGGCTCCTG 671
Sbjct 600  |||...||| 659
Query 672  GGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAGTGTTCAA 731
Sbjct 660  |||...||| 719
Query 732  AGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGGCCTATCT 791
Sbjct 720  |||...||| 779
Query 792  TGTTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTCGTATTTT 851
Sbjct 780  |||...||| 838
Query 852  ATTGTCAGAGGTGAAATTCCTGGATTTATGAAAGACGAACTTCTGCG-AAGCATTTGCCA 910
Sbjct 839  |||...||| 898
Query 911  AGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGATACCGTCG 969
Sbjct 899  |||...||| 958
Query 970  TAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGATGACCCT 1027
Sbjct 959  |||...||| 1016
Query 1028  GCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCGCAAGGCT 1082
Sbjct 1017  |||...||| 1076
Query 1083  -TGACTTAAGGGAGTTGGACGGA 1104
Sbjct 1077  |||...||| 1098

```

>gb|KM020024.1| Tetracystis tetraspora strain SAG 98.80 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 26S ribosomal RNA gene, partial sequence
Length=2442


```

Query 903  ATTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGA 961
          |||
Sbjct 921  ATTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGA 980

Query 962  TACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGA 1019
          |||
Sbjct 981  TACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCATT-A 1038

Query 1020 TTGACCCGTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCC 1074
          |||
Sbjct 1039 ATGACCCGTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCCGGGGGAGTATGGTC 1098

Query 1075  GCAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
          |||
Sbjct 1099  GCAAGGCTGAAACTTAAAGGAATT-GACGGA 1128

```

>gb|FJ946903.1| Chlorococcales sp. VI8 18S ribosomal RNA gene, partial sequence
Length=1786

Score = 1719.9 bits (1906), Expect = 0E00
Identities = 1057/1110 (95%), Gaps = 16/1110 (1%)
Strand = Plus/Plus

```

Query 5  ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
          |||
Sbjct 40  ATTAAGCCATGCATGTCTAAGTATNANCTGCTTATACGGTGAAACTGCGAATGGCTCATT 99

Query 65  AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
          |||
Sbjct 100  AAATCAGTTATAGTTTATTTGATGGTACCTT-TACTCGG-ATAACCGTAGTAATCTAGA 157

Query 125  GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184
          |||
Sbjct 158  GCTAATACGTGCGTAAATCCCGACTTATGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 217

Query 185  CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAECTTACGAATCGCACGGCCTTGTGCC 244
          |||
Sbjct 218  CCGGGCTTGCCCGAACTTAGGCGAATCATGATAAECTTACGAATCGCACGCCCTTGTGGC 277

Query 245  GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGCCTACC 304
          |||
Sbjct 278  GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGCCTACC 337

Query 305  ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 364
          |||
Sbjct 338  ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 397

Query 365  GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 424
          |||
Sbjct 398  GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 457

Query 425  AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 484
          |||
Sbjct 458  AGTGACAATAAATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGTACAATGTA 517

Query 485  AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGTAATTCCA 544
          |||
Sbjct 518  AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGTAATTCCA 577

Query 545  GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGTG 604
          |||
Sbjct 578  GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGATG 637

```



```

Query 305  ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAAACG 364
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct 317  ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAAACG 376

Query 365  GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCACACGGGGAGGT 424
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct 377  GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCACACGGGGAGGT 436

Query 425  AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 484
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct 437  AGTGACAATAAATAACAATACTGGGCGTTTATGTCTGGTAATTGGAATGAGTACAATGTA 496

Query 485  AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 544
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct 497  AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 556

Query 545  GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG 604
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct 557  GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG 616

Query 605  TGTGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
          || || || || || || || || || || || || || || || || || || || || || ||
Sbjct 617  TGGCGGCGCGGTCTGGTTCTACTATGTACTGCGTTTCGGCACACCTTTCTGCTGGGGACGG 676

Query 665  GCTCCTGGGCTTAAGTCTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724
          || || || || || || || || || || || || || || || || || || || || || ||
Sbjct 677  GCTCCTGGGCTTCACTGTCTGGGACTCGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 736

Query 725  TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
          || || || || || || || || || || || || || || || || || || || || || ||
Sbjct 737  TGTTCAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 796

Query 785  CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC 844
          || || || || || || || || || || || || || || || || || || || || || ||
Sbjct 797  CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 855

Query 845  GTATTTTCATTGTCAGAGGTGAAATTCCTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
          || || || || || || || || || || || || || || || || || || || || || ||
Sbjct 856  GTATTTTCATTGTCAGAGGTGAAATTCCTGGATTTATGAAAGACGAACTTCTGCGAAAGCA 915

Query 904  TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
          || || || || || || || || || || || || || || || || || || || || || ||
Sbjct 916  TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 975

Query 963  ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
          || || || || || || || || || || || || || || || || || || || || || ||
Sbjct 976  ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA- 1033

Query 1021  TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTTC--GGGGGA-TAWTGCCG 1075
          || || || || || || || || || || || || || || || || || || || || || ||
Sbjct 1034  TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCCGGGGGGAGTATGGTTCG 1092

Query 1076  CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
          || || || || || || || || || || || || || || || || || || || || || ||
Sbjct 1094  CAAGGCTGAAACTTAAAGGAATT-GACGGA 1122

```

>dbj|AB983623.1| Chlorococcum nivale gene for 18S rRNA, partial sequence, strain: UTEX2225
Length=1743

Score = 1719.0 bits (1905), Expect = 0E00
Identities = 1057/1110 (95%), Gaps = 17/1110 (2%)
Strand = Plus/Plus


```

Query 963 ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
          ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct 978 ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA- 1035

Query 1021 TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCG 1075
          ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct 1036 TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCGGGGGGAGTATGGTTCG 1094

Query 1076 CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
          ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct 1096 CAAGGCTGAAACTTAAAGGAATT-GACGGA 1124

```

>emb|HE860252.1| Chlorochytrium lemnae partial 18S rRNA gene, culture collection CAUP:H6905
Length=1647

Score = 1719.0 bits (1905), Expect = 0E00
Identities = 1057/1110 (95%), Gaps = 17/1110 (2%)
Strand = Plus/Plus

```

Query 5 ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
         ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct 25 ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACTGTGAAACTGCGAATGGCTCATT 84

Query 65 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
         ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct 85 AAATCAGTTATAGTTTATTTGATGGTACTT--TACTCGG-ATAACCGTAGTAATCTAGA 141

Query 125 GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184
         ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct 142 GCTAATACGTGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 201

Query 185 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAACTTCACGAATCGCACGGCCTTGTGCC 244
         ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct 202 CCGGGCTTGCCCGACCTGAGGCGAATCATGATAAACTTCACGAATCGCACGGCCTTGTGCC 261

Query 245 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC 304
         ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct 262 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC 321

Query 305 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 364
         ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct 322 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 381

Query 365 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCACACGGGGAGGT 424
         ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct 382 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCACACGGGGAGGT 441

Query 425 AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 484
         ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct 442 AGTGACAATAAATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGTACAATGTA 501

Query 485 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 544
         ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct 502 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 561

Query 545 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG 604
         ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct 562 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG 621

Query 605 TGTGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
         || || ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct 622 TGGCGGCGCGTCTGGTTCTACTATGTACTGCGTTCGGCACACCTTTCTGCTGGGGACGG 681

```



```

Query 365 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 424
          |||
Sbjct 382 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 441

Query 425 AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 484
          |||
Sbjct 442 AGTGACAATAAATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGTACAATGTA 501

Query 485 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 544
          |||
Sbjct 502 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 561

Query 545 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG 604
          |||
Sbjct 562 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG 621

Query 605 TGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
          |||
Sbjct 622 TGGCGGCGCGGTCTGGTTCTACTATGTACTGCGTTCGGCACACCTTTCTGCTGGGGACGG 681

Query 665 GCTCCTGGGCTTAAGTCTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724
          |||
Sbjct 682 GCTCCTGGGCTTCACTGTCTGGGACTCGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 741

Query 725 TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
          |||
Sbjct 742 TGTTCAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 801

Query 785 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC 844
          |||
Sbjct 802 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 860

Query 845 GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
          |||
Sbjct 861 GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCGAAAGCA 920

Query 904 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
          |||
Sbjct 921 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 980

Query 963 ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
          |||
Sbjct 981 ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA- 1038

Query 1021 TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCG 1075
          |||
Sbjct 1039 TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCGGGGGGAGTATGGTTCG 1097

Query 1076 CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
          |||
Sbjct 1099 CAAGGCTGAAACTTAAAGGAATT-GACGGA 1127

```

>gb|AF514408.1| *Macrochloris* sp. 105-99 strain CCCryo 105-99 18S ribosomal RNA gene, partial sequence

Length=1764

Score = 1718.1 bits (1904), Expect = 0E00
Identities = 1057/1110 (95%), Gaps = 16/1110 (1%)
Strand = Plus/Plus

```

Query 5 ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
          |||

```



```

Sbjct 384      ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||| 443
                GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCACACGGGGAGGT
Query 425      AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 484
                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct 444      AGTGACAATAAATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGTACAATGTA 503
                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Query 485      AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 544
                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct 504      AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 563
                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Query 545      GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGTG 604
                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct 564      GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGATG 623
                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Query 605      TGTTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
                ||| |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct 624      TGTTCGACGCGGTCTGCCTCTGGTATGTACTGCGTTCGATGCATCTTTCTGCTGGGGACGA 683
                ||| |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Query 665      GCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724
                |||||||||||||||||||| || |||||||| |||||||||||||||||||||||||||||
Sbjct 684      GCTCCTGGGCTTAACTGCTTGGGACTCGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 743
                |||||||||||||||||||| || |||||||| |||||||||||||||||||||||||||||
Query 725      TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
                |||||||||||||||| |||||||||||||||||||||||||||||||||||||||||||||
Sbjct 744      TGTTCAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 803
                |||||||||||||||| |||||||||||||||||||||||||||||||||||||||||||||
Query 785      CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTCC 844
                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct 804      CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTCC 863
                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Query 845      GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct 864      GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCGAAAGCA 923
                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Query 904      TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct 924      TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 983
                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Query 963      ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
                |||||||||||| | ||| |||||||||||||||||||||||||||||||||||||||||
Sbjct 984      ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA- 1041
                |||||||||||| | ||| |||||||||||||||||||||||||||||||||||||||||
Query 1021     TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCG 1075
                |||||||||||||||| |||||||||||| |||||||||||| ||||| |||||||| ||| |||
Sbjct 1042     TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCGGGGGGAGTATGGTCG 1100
                |||||||||||||||| |||||||||||| |||||||||||| ||||| |||||||| ||| |||
Query 1076     CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
                |||||||| |||||||| ||| ||||| |||||
Sbjct 1102     CAAGGCTGAAACTTAAAGGAATTGG-CGGA 1130
                |||||||| |||||||| ||| ||||| |||||

```

>gb|JQ315635.1| Chlamydomonadaceae sp. KMMCC 249 18S ribosomal RNA gene, partial sequence
Length=1666

Score = 1716.3 bits (1902), Expect = 0E00
Identities = 1025/1058 (96%), Gaps = 15/1058 (1%)
Strand = Plus/Plus

```

Query 57      GGCTCATTAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGA 116
                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct 1       GGCTCATTAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGG-ATAACCGTAGGA 59
                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Query 117     AATCTAGAGCTAATACATGCGTAAATCCCAGCTTCTGGAAGGGACGTATTTATTAGATAA 176
                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

```


Sbjct	60	 AATCTAGAGCTAATACATGCGTAAATCCCAGCTTCTGGAAGGGACGTATTTATTAGATAA	119
Query	177	AAGGCCAGCCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCACGGC	236
Sbjct	120	 AAGGCCAGCCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCACGGC	179
Query	237	CTTGTGCCGGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGA	296
Sbjct	180	 CTCGCGCCGGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGA	239
Query	297	GGCCTACCATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCT	356
Sbjct	240	 GGCCTACCATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCT	299
Query	357	GAGAAACGGCTACCACATCCAAGGAAGGCAGCGCGCAAATTACCCAATCCCAGACAC	416
Sbjct	300	 GAGAAACGGCTACCACATCCAAGGAAGGCAGCGCGCAAATTACCCAATCCCAGACAC	359
Query	417	GGGGAGGTAGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGA	476
Sbjct	360	 GGGGAGGTAGTGACAATAAATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGT	419
Query	477	ACAATGTAAATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGG	536
Sbjct	420	 ACAATGTAAATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGG	479
Query	537	TAATTCAGCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGAT	596
Sbjct	480	 TAATTCAGCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGAT	539
Query	597	TTCGGGTGTGTGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTCTGCT	656
Sbjct	540	 TTCGGGTGCTGCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTCTGCT	599
Query	657	GGGGACGGGCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCA	716
Sbjct	600	 GGGGACGGGCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGGCCTTGAGCA	659
Query	717	AACAAGAGTGTTCAAAGCAAGCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAG	776
Sbjct	660	 AACAAGAGTGTTCAAAGCAAGCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAG	719
Query	777	GACTCTGGCCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGG	836
Sbjct	720	 GACTCTGGCCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGG	779
Query	837	GGCATTTCGTATTTTCATTGTCAGAGGTGAAATTTCTTGATTTATGAAAGACGAACTTCTG	896
Sbjct	780	 GGCA-TTCGTATTTTCATTGTCAGAGGTGAAATTTCTTGATTTATGAAAGACGAACTTCTG	838
Query	897	CG-AAGCATTTCGCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGAC	954
Sbjct	839	 CGAAAGCATTTCGCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGAC	898
Query	955	GATTAGATACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTT	1012
Sbjct	899	 GATTAGATACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTT	957
Query	1013	CCATTGATTGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-	1067
Sbjct	958	 CCATTGA-TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCCGGGGGGAG	1016
Query	1068	TAWTGCCGCAAGGCT-TGACTTAAGGGAGTTGGACGGA	1103


```

Sbjct 547  |||||||
GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG 606

Query 605  TGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
Sbjct 607  |||||||
TGCTGACGCGGTCTGCCTCTGGTATGTACTGCGGCCGGTGCACCTTTCTGCCGGGGACGA 666

Query 665  GCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724
Sbjct 667  |||||||
GCTCCTGGGCTTCACTGTCTGGGACTCGGAGTCGGCGAGGTGACCTTGAGCAAACAAGAG 726

Query 725  TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
Sbjct 727  |||||||
TGTTCAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 786

Query 785  CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC 844
Sbjct 787  |||||||
CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 845

Query 845  GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
Sbjct 846  |||||||
GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCGAAAGCA 905

Query 904  TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
Sbjct 906  |||||||
TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 965

Query 963  ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
Sbjct 966  |||||||
ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA- 1023

Query 1021  TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCG 1075
Sbjct 1024  |||||||
TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCCGGGGGGAGTATGGTTCG 1082

Query 1076  CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
Sbjct 1084  |||||||
CAAGGCTGAAACTTAAAGGAATT-GACGGA 1112

```

>gb|JN880459.1| Protosiphon botryoides isolate FRT2000 18S ribosomal RNA gene, partial sequence
Length=1745

Score = 1710.0 bits (1895), Expect = 0E00
Identities = 1056/1110 (95%), Gaps = 17/1110 (2%)
Strand = Plus/Plus

```

Query 5  ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
Sbjct 20  |||||||
ATTAAGCCATGCATGTCTAAGTATAAACCT-TTATACGGTGAAACTGCGAATGGCTCATT 78

Query 65  AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
Sbjct 79  |||||||
AAATCAGTTATAGTTTATTTGATGGTACCTT-TACTCGG-ATAACCGTAGTAATCTAGA 136

Query 125  GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184
Sbjct 137  |||||||
GCTAATACGTGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 196

Query 185  CCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCACGGCCTTGTGCC 244
Sbjct 197  |||||||
CCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCACGGCCTTGTGCC 256

Query 245  GGCGATGTTTCATTCAAATTTCTGCCTATCAACTTTCGATGGTAGGATAGAGGCCTACC 304

```

```

Sbjct 257  |||
GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCTACC 316

Query 305  ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 364
Sbjct 317  |||
ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 376

Query 365  GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCCGACACGGGGAGGT 424
Sbjct 377  |||
GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCCGACACGGGGAGGT 436

Query 425  AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 484
Sbjct 437  |||
AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGTACAATGTA 496

Query 485  AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 544
Sbjct 497  |||
AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 556

Query 545  GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG 604
Sbjct 557  |||
GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG 616

Query 605  TGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
Sbjct 617  |||
TGTCGACGCGGTCTGCCTCTGGTATGTACTGCGGCCGGTGCACCTTTCTGCCGGGGACGA 676

Query 665  GCTCCTGGGCTTAAGTCTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724
Sbjct 677  |||
GCTCCTGGGCTTCACTGTCTGGGACTCGGAGTCCGGCGAGGTGACCTTGAGCAAACAAGAG 736

Query 725  TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
Sbjct 737  |||
TGTTCAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 796

Query 785  CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC 844
Sbjct 797  |||
CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 855

Query 845  GTATTTCAATTGTGAGAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
Sbjct 856  |||
GTATTTCAATTGTGAGAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCGAAAGCA 915

Query 904  TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
Sbjct 916  |||
TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 975

Query 963  ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
Sbjct 976  |||
ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA- 1033

Query 1021  TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCG 1075
Sbjct 1034  |||
TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCGGGGGGAGTATGGTTCG 1092

Query 1076  CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
Sbjct 1094  |||
CAAGGCTGAAACTTAAAGGAATT-GACGGA 1122

```

>gb|JN880458.1| Protosiphon botryoides isolate UTEX 47 18S ribosomal RNA gene, partial sequence
Length=1720

Score = 1710.0 bits (1895), Expect = 0E00

Identities = 1056/1110 (95%), Gaps = 17/1110 (2%)
Strand = Plus/Plus

```
Query 5 ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
||||| ||||||||||||||||||||||| |||||||||||||||||||||||
Sbjct 20 ATTAAGCCATGCATGTCTAAGTATAAACCT-TTATACGGTGAAACTGCGAATGGCTCATT 78

Query 65 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
||||||||||||||||||||||||| ||| || ||||||||||| || |||||||
Sbjct 79 AAATCAGTTATAGTTTATTTGATGGTACCTT-TACTCGG-ATAACCGTAGTAATTCTAGA 136

Query 125 GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184
|||||||||||| ||||||||||| ||||||||||| ||||||||||| |||||||
Sbjct 137 GCTAATACGTGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 196

Query 185 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAECTTACGAATCGCACGGCCTTGTGCC 244
||||||||||||| ||||||||||| ||||||||||| ||||||||||| |||||||
Sbjct 197 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAECTTACGAATCGCACGGCCTTGTGCC 256

Query 245 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC 304
||||||||||||| ||||||||||| ||||||||||| ||||||||||| |||||||
Sbjct 257 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC 316

Query 305 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 364
||||||||||||| ||||||||||| ||||||||||| ||||||||||| |||||||
Sbjct 317 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 376

Query 365 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCACACGGGGAGGT 424
||||||||||||| ||||||||||| ||||||||||| ||||||||||| |||||||
Sbjct 377 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCACACGGGGAGGT 436

Query 425 AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 484
||||||||||||| ||||||||||| ||||||||||| ||||||||||| |||||||
Sbjct 437 AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGTACAATGTA 496

Query 485 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 544
||||||||||||| ||||||||||| ||||||||||| ||||||||||| |||||||
Sbjct 497 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 556

Query 545 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG 604
||||||||||||| ||||||||||| ||||||||||| ||||||||||| |||||||
Sbjct 557 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG 616

Query 605 TGTGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
|| ||||||||||| ||||||||||| ||||||||||| |||||||
Sbjct 617 TGCTGACGCGGTCTGCCTCTGGTATGTACTGCGGCCGGTGCACCTTTCTGCCGGGGACGA 676

Query 665 GCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724
||||||||||||| ||| ||||||| || || ||| ||||||| |||||||
Sbjct 677 GCTCCTGGGCTTCACTGTCTGGGACTCGGAGTCGGCGAGGTGACCTTGAGCAAACAAGAG 736

Query 725 TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
||||||||||||| ||||||||||| ||||||||||| ||||||||||| |||||||
Sbjct 737 TGTTCAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 796

Query 785 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGCATTTTC 844
||||||||||||| ||||||||||| ||||||||||| ||||||||||| |||||||
Sbjct 797 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 855

Query 845 GTATTTTCATTGTCAGAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
||||||||||||| ||||||||||| ||||||||||| ||||||||||| |||||||
Sbjct 856 GTATTTTCATTGTCAGAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCGAAAGCA 915

Query 904 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
```

```

Sbjct  916  |||...|||
TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 975

Query  963  ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
|||...|||
Sbjct  976  ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA- 1033

Query  1021  TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTTC--GGGGGA-TAWTGCCG 1075
|||...|||
Sbjct  1034  TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCCGGGGGAGTATGGTTCG 1092

Query  1076  CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
|||...|||
Sbjct  1094  CAAGGCTGAAACTTAAAGGAATT-GACGGA 1122

```

>gb|JN880457.1| Protosiphon botryoides f. parieticola isolate UTEX 46 18S ribosomal RNA gene, partial sequence
Length=1718

Score = 1710.0 bits (1895), Expect = 0E00
Identities = 1056/1110 (95%), Gaps = 17/1110 (2%)
Strand = Plus/Plus

```

Query  5  ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
|||...|||
Sbjct  20  ATTAAGCCATGCATGTCTAAGTATAAACCT-TTATACGGTGAAACTGCGAATGGCTCATT 78

Query  65  AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
|||...|||
Sbjct  79  AAATCAGTTATAGTTTATTTGATGGTACCTT-TACTCGG-ATAACCGTAGTAATTCTAGA 136

Query  125  GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184
|||...|||
Sbjct  137  GCTAATACGTGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 196

Query  185  CCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCACGGCCTTGTGCC 244
|||...|||
Sbjct  197  CCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCACGGCCTTGTGCC 256

Query  245  GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC 304
|||...|||
Sbjct  257  GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC 316

Query  305  ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAAACG 364
|||...|||
Sbjct  317  ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAAACG 376

Query  365  GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCACACGGGGAGGT 424
|||...|||
Sbjct  377  GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCACACGGGGAGGT 436

Query  425  AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 484
|||...|||
Sbjct  437  AGTGACAATAAATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGTACAATGTA 496

Query  485  AATATCTTAAACGAGTATCCATTGGAGGGCAAGTCTGGTGCAGCAGCCGCGGTAATTCCA 544
|||...|||
Sbjct  497  AATATCTTAAACGAGTATCCATTGGAGGGCAAGTCTGGTGCAGCAGCCGCGGTAATTCCA 556

Query  545  GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG 604
|||...|||
Sbjct  557  GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG 616

```



```

Query 305  ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAAACG 364
          |||
Sbjct 337  ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAAACG 396

Query 365  GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCACACGGGGAGGT 424
          |||
Sbjct 397  GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCACACGGGGAGGT 456

Query 425  AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 484
          |||
Sbjct 457  AGTGACAATAAATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGTACAATGTA 516

Query 485  AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 544
          |||
Sbjct 517  AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 576

Query 545  GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTGGGGTG 604
          |||
Sbjct 577  GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTGGGGTG 636

Query 605  TGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
          ||
Sbjct 637  TGCTGACGCGGTCTGCCTCTGGTATGTACTGCGGCCGGTGCACCTTTCTGCCGGGGACGA 696

Query 665  GCTCCTGGGCTTAAGTCTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724
          |||
Sbjct 697  GCTCCTGGGCTTCACTGTCTGGGACTCGGAGTCGGCGAGGTGACCTTGAGCAAACAAGAG 756

Query 725  TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
          |||
Sbjct 757  TGTTCAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 816

Query 785  CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC 844
          |||
Sbjct 817  CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 875

Query 845  GTATTTTCATTGTCAGAGGTGAAATTCCTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
          |||
Sbjct 876  GTATTTTCATTGTCAGAGGTGAAATTCCTGGATTTATGAAAGACGAACTTCTGCGAAAGCA 935

Query 904  TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
          |||
Sbjct 936  TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 995

Query 963  ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
          |||
Sbjct 996  ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA- 1053

Query 1021  TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCG 1075
          |||
Sbjct 1054  TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTCCGGGGGGAGTATGGTTCG 1112

Query 1076  CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
          |||
Sbjct 1114  CAAGGCTGAAACTTAAAGGAATT-GACGGA 1142

```

>gb|MG491510.1| Chlorococcum isabeliense strain ACSSI 207 small subunit ribosomal RNA gene, partial sequence
Length=1715

Score = 1705.5 bits (1890), Expect = 0E00
Identities = 1054/1110 (94%), Gaps = 17/1110 (2%)


```

Sbjct 321      ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||| 380
                ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG
Query 365      GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 424
                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct 381      GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 440
                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Query 425      AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 484
                ||||||||||||||||||||||||||||| || |||||||||||||||||||||||||
Sbjct 441      AGTGACAATAAATAACAATACTGGGCATCTTTGTCTGGTAATTGGAATGAGTACAATGTA 500
                ||||||||||||||||||||||||||||| || |||||||||||||||||||||||||
Query 485      AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 544
                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct 501      AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 560
                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Query 545      GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGTG 604
                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct 561      GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGTG 620
                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Query 605      TGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
                || ||||||||||||||||||||||||| |||||||||||||||||||||||||
Sbjct 621      TGCTTACGCGGTCTGCCTCTGGTAAGTACTGCGCTAAGTGCACCTTTCTGCTGGGGACGA 680
                || ||||||||||||||||||||||||| |||||||||||||||||||||||||
Query 665      GCTCCTGGGCTTAAGTCTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724
                |||||||||||||||| || |||||||| |||||||||||||||||||||||||
Sbjct 681      GCTCCTGGGCTTAAGTCTGGGACTCGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 740
                |||||||||||||||| || |||||||| |||||||||||||||||||||||||
Query 725      TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
                |||||||||||||||| |||||||||||||||||||||||||||||||||||||
Sbjct 741      TGTTCAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 800
                |||||||||||||||| |||||||||||||||||||||||||||||||||||||
Query 785      CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTCC 844
                |||||||||||||||| |||||||||||||||||||||||||||||||||||||
Sbjct 801      CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 859
                |||||||||||||||| |||||||||||||||||||||||||||||||||||||
Query 845      GTATTTTCATTGTCAGAGGTGAAATTCCTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
                |||||||||||||||| |||||||||||||||||||||||||||||||||||||
Sbjct 860      GTATTTTCATTGTCAGAGGTGAAATTCCTGGATTTATGAAAGACGAACTTCTGCGAAAGCA 919
                |||||||||||||||| |||||||||||||||||||||||||||||||||||||
Query 904      TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
                |||||||||||||||| |||||||||||||||||||||||||||||||||||||
Sbjct 920      TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 979
                |||||||||||||||| |||||||||||||||||||||||||||||||||||||
Query 963      ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
                |||||||||||| | |||| |||||||||||||||||||| |||||||||| |||||||||
Sbjct 980      ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAAGGATTGGCAGGTGTTCCATTGA- 1037
                |||||||||||| | |||| |||||||||||||||||||| |||||||||| |||||||||
Query 1021     TGACCCTGCCAGCAC-TTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCG 1075
                |||||||||||||||| || |||||||| |||||||||||||||||||| |||||||| ||| |||
Sbjct 1038     TGACCCTGCCAGCACTTTAAGAGAAATCAAAGTTTTTGGGTTCGGGGGGAGTATGGTTCG 1096
                |||||||||||||||| || |||||||| |||||||||||||||||||| |||||||| ||| |||
Query 1076     CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
                |||||||| | |||||||| ||| || ||||||||
Sbjct 1098     CAAGGCTGAACTTAAAGGAATT-GACGGA 1126
                |||||||| | |||||||| ||| || ||||||||

```

>gb|KC149964.1| Protosiphon botryoides isolate GTD4b-3 18S ribosomal RNA gene, partial sequence
Length=1759

Score = 1705.5 bits (1890), Expect = 0E00
Identities = 1055/1110 (95%), Gaps = 17/1110 (2%)
Strand = Plus/Plus

```

Query 5      ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64

```



```

Sbjct 401      ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||| 460
                GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCACACGGGGAGGT
Query 425      AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 484
                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct 461      AGTGACAATAAATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGTACAATGTA 520
                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Query 485      AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 544
                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct 521      AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 580
                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Query 545      GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGTG 604
                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct 581      GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGATG 640
                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Query 605      TGTTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
                ||| | |||||||||||||||||| ||||||| ||| ||| |||||||||||||||
Sbjct 641      TGTTCGACGCGGTCTGCCTCTGGTACGTACTGCGTTCGATGCATCTTTCTGCTGGGGACGA 700
                ||| | |||||||||||||||||| ||||||| ||| ||| |||||||||||||||
Query 665      GCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724
                |||||||||||||||| | ||||||| |||||||||||||||||||||||
Sbjct 701      GCTCCTGGGCTTAACTGCTTGGGACTCGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 760
                |||||||||||||||| | ||||||| |||||||||||||||||||||||
Query 725      TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
                |||||||||||||||| | |||||||||||||||||||||||||||
Sbjct 761      TGTTCAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 820
                |||||||||||||||| | |||||||||||||||||||||||||||
Query 785      CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC 844
                |||||||||||||||||||||||||||||||||||||||||||
Sbjct 821      CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 879
                |||||||||||||||||||||||||||||||||||||||
Query 845      GTATTTTCATTGTCAGAGGTGAAATTCCTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
                |||||||||||||||||||||||||||||||||||||||
Sbjct 880      GTATTTTCATTGTCAGAGGTGAAATTCCTGGATTTATGAAAGACGAACTTCTGCGAAAGCA 939
                |||||||||||||||||||||||||||||||||||||||
Query 904      TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
                |||||||||||||||||||||||||||||||||||||||
Sbjct 940      TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 999
                |||||||||||||||||||||||||||||||||||||||
Query 963      ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
                ||||||||| | ||| |||||||||||||||||||
Sbjct 1000     ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCAATTGA- 1057
                ||||||||| | ||| |||||||||||||||||||
Query 1021     TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCG 1075
                |||||||||||||| ||||||||| ||||||||| ||||| ||||||| ||| |||
Sbjct 1058     TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCGGGGGGAGTATGGTCG 1116
                |||||||||||||| ||||||||| ||||||||| ||||| ||||||| ||| |||
Query 1076     CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
                ||||||| |||||| ||| ||| |||||||
Sbjct 1118     CAAGGCTGAAACTTAAAGGAATT-GACGGA 1146
                ||||||| |||||| ||| ||| |||||||

```

>gb|KM870658.1| Uncultured eukaryote clone TE108A 18S ribosomal RNA gene, complete sequence
Length=1730

Score = 1702.8 bits (1887), Expect = 0E00
Identities = 1055/1111 (94%), Gaps = 17/1111 (2%)
Strand = Plus/Plus

```

Query 5      ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
                ||||||| ||||||| ||| ||| |||||||
Sbjct 26      ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 85
                ||||||| ||||||| ||| ||| |||||||
Query 65      AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
                ||||||| ||||||| ||| ||| |||||||

```

Sbjct	86	 AAATCAGTTATAGTTTATTTGATGGTACTTT-TACTCGG-ATAACCGTAGTAATTTCTAGA	143
Query	125	GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG	184
Sbjct	144	 GCTAATACGTGCGTAAATCCCGACTTATGGAAGGGACGTATTTATTAGATAAAAAGGCCAG	203
Query	185	CCGGGCTTGCCCGACCTTAGCGGAATCATGATAACTTCACGAATCGCACGGCCTTGTGCC	244
Sbjct	204	 CCGGGCTTGCCCGAACTTAGCGGAATCATGATAACTTCACGAATCGCACGCCCTTGTGGC	263
Query	245	GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACC	304
Sbjct	264	 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACC	323
Query	305	ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAAACG	364
Sbjct	324	 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAAACG	383
Query	365	GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT	424
Sbjct	384	 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT	443
Query	425	AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA	484
Sbjct	444	 AGTGACAATAAATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGTACAATGTA	503
Query	485	AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGTAATTCCA	544
Sbjct	504	 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGTAATTCCG	563
Query	545	GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGTG	604
Sbjct	564	 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGATG	623
Query	605	TGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG	664
Sbjct	624	 TGTTGACGCGGTCTGCCTCTGGTATGTACTGCGTCCGATGCATCTTCCGCTGGGGACGA	683
Query	665	GCTCCTGGGCTTAAGTCTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG	724
Sbjct	684	 GCTCCTGGGCTTAAGTCTGGGACTCGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG	743
Query	725	TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG	784
Sbjct	744	 TGTTCAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG	803
Query	785	CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC	844
Sbjct	804	 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC	862
Query	845	GTATTTTCATTGTCAGAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCG-AAGCA	903
Sbjct	863	 GTATTTTCATTGTCAGAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCGAAAGCA	922
Query	904	-TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGA	961
Sbjct	923	 TTTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGA	982
Query	962	TACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGA	1019
Sbjct	983	 TACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCATTGA	1041
Query	1020	TTGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTTC--GGGGGA-TAWTGCC	1074

```

          |||
Sbjct  1042  -TGACCC TGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCCGGGGGAGTATGGTC 1100
Query  1075  GCAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
          |||
Sbjct  1101  GCAAGGCTGAAACTTAAAGGAATT-GACGGA 1130

```

>gb|U41177.1|PBU41177 Protosiphon botryoides 18S ribosomal RNA gene
Length=1744

Score = 1702.8 bits (1887), Expect = 0E00
Identities = 1054/1110 (94%), Gaps = 17/1110 (2%)
Strand = Plus/Plus

```

Query  5      ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
          |||
Sbjct  23      ATTAAGCCATGCATGTCTAAGTATAAACCT-TTATACGGTGAAACTGCGAATGGCTCATT 81

Query  65      AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
          |||
Sbjct  82      AAATCAGTTATAGTTTATTTGATGGTACCTT-TACTCGG-ATAACCGTAGTAATCTAGA 139

Query  125     GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184
          |||
Sbjct  140     GCTAATACGTGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 199

Query  185     CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAECTTACGAATCGCACGGCCTTGTGCC 244
          |||
Sbjct  200     CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAECTTACGAATCGCACGGCCTTGTGCC 259

Query  245     GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACC 304
          |||
Sbjct  260     GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACC 319

Query  305     ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 364
          |||
Sbjct  320     ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 379

Query  365     GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 424
          |||
Sbjct  380     GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 439

Query  425     AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 484
          |||
Sbjct  440     AGTGACAATAAATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGTACAATGTA 499

Query  485     AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGTAATTCCA 544
          |||
Sbjct  500     AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGTAATTCCA 559

Query  545     GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCGGGTG 604
          |||
Sbjct  560     GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCGGGTG 619

Query  605     TGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
          |||
Sbjct  620     TGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCCGGTGCACCTTTCTGCCGGGGACGA 679

Query  665     GCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724
          |||
Sbjct  680     GCTCCTGGGCTTCACTGTCTGGGACTCGGAGTCGGCGAGGTGACCTTGAGCAAACAAGAG 739

Query  725     TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 784

```



```

Query 425  AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 484
          |||
Sbjct 420  AGTGACAATAAATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGTACAATGTA 479

Query 485  AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 544
          |||
Sbjct 480  AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 539

Query 545  GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCTGGGTTG 604
          |||
Sbjct 540  GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCTGGGTTG 599

Query 605  TGTGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
          |||
Sbjct 600  TGTGACGCGGTCTGCCTCTGGTATGTACTGCGTTTCGATGCATCTTTCTGCTGGGGACGA 659

Query 665  GCTCCTGGGCTTAAGTCTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724
          |||
Sbjct 660  GCTCCTGGGCTTAAGTCTGGGACTCGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 719

Query 725  TGTTCAAAGCAAGCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
          |||
Sbjct 720  TGTTCAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 779

Query 785  CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC 844
          |||
Sbjct 780  CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 838

Query 845  GTATTTTCATTGTCAGAGGTGAAATTCCTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
          |||
Sbjct 839  GTATTTTCATTGTCAGAGGTGAAATTCCTGGATTTATGAAAGACGAACTTCTGCGAAAGCA 898

Query 904  TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
          |||
Sbjct 899  TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAANACGATTAGAT 958

Query 963  ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
          |||
Sbjct 959  ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA- 1016

Query 1021 TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTTT-GGTTC--GGGGGA-TAWTGCCG 1075
          |||
Sbjct 1017 TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTTGGGTTCCGGGGGAGTATGGTCG 1075

Query 1076 CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
          |||
Sbjct 1077 CAAGGCTGAAACTTAAAGGAAT-GACGGA 1105

```

>gb|MG491512.1| Chlorococcum diplobionticum strain ACSSI 202 small subunit ribosomal RNA gene, partial sequence
Length=1702

Score = 1700.1 bits (1884), Expect = 0E00
Identities = 1053/1110 (94%), Gaps = 16/1110 (1%)
Strand = Plus/Plus

```

Query 5  ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAGTGCGAATGGCTCATT 64
          |||
Sbjct 5  ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACTGTGAAACTGCGAATGGCTCATT 64

Query 65  AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
          |||
Sbjct 65  AAATCAGTTATAGTTTATTTGATGGTACCTT-TACTCGG-ATAACCGTAGTAATCTAGA 122

```



```

Query 1076 CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
          |||||  |||||  |||  ||  |||||
Sbjct 1080 CAAGGCTGAAACTTAAAGGAATT-GACGGA 1108

```

>gb|U70587.1|CDU70587 Chlorococcum diplobionicum 18S ribosomal RNA gene, partial sequence
Length=1708

Score = 1700.1 bits (1884), Expect = 0E00
Identities = 1053/1110 (94%), Gaps = 16/1110 (1%)
Strand = Plus/Plus

```

Query 5      ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
          |||||  |||||||  |||||||  |||  ||  |||||
Sbjct 5      ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACTGTGAAACTGCGAATGGCTCATT 64

Query 65     AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
          |||||  |||||||  |||||||  ||||  ||  |||||  ||  |||||
Sbjct 65     AAATCAGTTATAGTTTATTTGATGGTACCTT-TACTCGG-ATAACCGTAGTAATCTAGA 122

Query 125    GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGCCAG 184
          |||||  |||||||  |||||||  |||||||  |||||||  |||||||
Sbjct 123    GCTAATACGTGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGCCAG 182

Query 185    CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAECTTCACGAATCGCACGGCCTTGTGCC 244
          |||||  |||||||  |||||||  |||||||  |||||||  |||||||
Sbjct 183    CCGGGCTTGCCCGACCTTTGGCGAATCATGATAAECTTCACGAATCGCATGGCCTCGTGCC 242

Query 245    GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC 304
          |||||  |||||||  |||||||  |||||||  |||||||  |||||||
Sbjct 243    GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC 302

Query 305    ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 364
          |||||  |||||||  |||||||  |||||||  |||||||  |||||||
Sbjct 303    ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 362

Query 365    GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 424
          |||||  |||||||  |||||||  |||||||  |||||||  |||||||
Sbjct 363    GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 422

Query 425    AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 484
          |||||  |||||||  |||||||  ||||  ||  |||||  ||  |||||
Sbjct 423    AGTGACAATAAATAACAATACTGGGCAATTTATGTTTGGTAATTGGAATGAGTACAATGTA 482

Query 485    AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 544
          |||||  |||||||  |||||||  |||||||  |||||||  |||||||
Sbjct 483    AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 542

Query 545    GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCGGGTG 604
          |||||  |||||||  |||||||  |||||||  |||||||  |||||||
Sbjct 543    GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCGGGTA 602

Query 605    TGTTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
          ||  ||  ||  |||||  |||||||  |||||||  ||||  |  |||||  |||||
Sbjct 603    TGCCGGCGTGGTCTGCCTCTGGTATGTACTGCGCTCGGCGTACCTTTCTGCTGGAAACGG 662

Query 665    GCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724
          |  |||||  ||||  |||||  ||  |||||  |||||  |||||  |||||
Sbjct 663    GTTCCTGGGCTTCACTGTCTGGGACTCGGAGTCAGCGAAGTGACCTTGAGCAAACAAGAG 722

Query 725    TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
          |||||  |||||||  |||||||  |||||  |||||  |||||  |||||
Sbjct 723    TGTTCAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 782

```

```

Query 785 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC 844
      |||
Sbjct 783 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 841

Query 845 GTATTTTCATTGTCTAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
      |||
Sbjct 842 GTATTTTCATTGTCTAGAGGTGAAATTCTTGGATTTATGAAAGACGAACATCTGCGAAAGCA 901

Query 904 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
      |||
Sbjct 902 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 961

Query 963 ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
      |||
Sbjct 962 ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA- 1019

Query 1021 TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTCC--GGGGA-TAWTGCCG 1075
      |||
Sbjct 1020 TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCCGGGGGAGTATGGTTCG 1078

Query 1076 CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
      |||
Sbjct 1080 CAAGGCTGAAACTTAAAGGAATT-GACGGA 1108

```

>gb|KC196723.1|Macrochloris radiosa isolate UTEX 1964 18S ribosomal RNA gene, partial sequence
Length=1688

Score = 1699.2 bits (1883), Expect = 0E00
Identities = 1049/1103 (95%), Gaps = 16/1103 (1%)
Strand = Plus/Plus

```

Query 12 CATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATTAATCAG 71
      |||
Sbjct 2 CATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATTAATCAG 61

Query 72 TTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGAGCTAATA 131
      |||
Sbjct 62 TTATAGTTTATTTGATGGTACCTT-TACTCGG-ATAACCGTAGTAATTCTAGAGCTAATA 119

Query 132 CATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAGGCCAGCCGGGCT 191
      |||
Sbjct 120 CGTGCGTAAATCCCGACTTATGGAAGGGACGTATTTATTAGATAAAAGGCCAGCCGGACT 179

Query 192 TGCCCAGCTTAGGCGAATCATGATAAATTACGAATCGCACGGCCTTGTGCCGGCGATG 251
      |||
Sbjct 180 TGTCCGAACTTAGGCGAATCATGATAAATTACGAATCGCACGCCCTTGTGGCGGGATG 239

Query 252 TTTCAATCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACCATGGTGG 311
      |||
Sbjct 240 TTTCAATCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACCATGGTGG 299

Query 312 TAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACGGCTACCA 371
      |||
Sbjct 300 TAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACGGCTACCA 359

Query 372 CATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGTAGTGACA 431
      |||
Sbjct 360 CATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGTAGTGACA 419

Query 432 ATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTAAATATCT 491
      |||
Sbjct 420 ATAAATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGTACAATGTAAATATCT 479

```



```

Query 492 TAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCAGCTCCAA 551
      |||
Sbjct 480 TAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCAGCTCCAA 539

Query 552 TAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTGCGGTGTGTCGAC 611
      |||
Sbjct 540 TAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTGCGGATGTGTTGAC 599

Query 612 GCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGGGCTCCTG 671
      |||
Sbjct 600 GCGGTCTGCCTCTGGTATGCACTGCGTTTCGATGCATCTTTCTGCTGGGGACGTGTTCTCTG 659

Query 672 GGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAGTGTTCAA 731
      |||
Sbjct 660 GGCTTAACTGCTTGGGACACGGAATCAGCGAAGTGACCTTGAGCAAACAAGAGTGTTCAA 719

Query 732 AGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGGCCTATCT 791
      |||
Sbjct 720 AGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGGCCTATCT 779

Query 792 TGTTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTCGTATTTTC 851
      |||
Sbjct 780 TGTTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTCGTATTTTC 838

Query 852 ATTGTCAGAGGTGAAATTCCTGGATTTATGAAAGACGAACTTCTGCG-AAGCATTGCCA 910
      |||
Sbjct 839 ATTGTCAGAGGTGAAATTCCTGGATTTATGAAAGACGAACTTCTGCGAAAGCATTGCCA 898

Query 911 AGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGATACCGTCG 969
      |||
Sbjct 899 AGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGATACCGTCG 958

Query 970 TAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGATTGACCCT 1027
      |||
Sbjct 959 TAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA-TGACCCT 1016

Query 1028 GCCAGCA-CTTATGAGAATYCAAAGTTTTT-GTTTC--GGGGGA-TAWTGCCGCAAGGCT 1082
      |||
Sbjct 1017 GCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCCGGGGGAGTATGGTCGCAAGGCT 1076

Query 1083 -TGACTTAAGGGAGTTGGACGGA 1104
      |||
Sbjct 1077 GAAACTTAAAGGAATT-GACGGA 1098

```

>dbj|AB049415.1| Chlorosarcinopsis minor gene for 18S rRNA
Length=1740

Score = 1697.3 bits (1881), Expect = 0E00
Identities = 1053/1110 (94%), Gaps = 17/1110 (2%)
Strand = Plus/Plus

```

Query 5 ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
      |||
Sbjct 23 ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACTGTGAAACTGCGAATGGCTCATT 82

Query 65 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
      |||
Sbjct 83 AAATCAGTTATAGTTTATTTGATGGTACCTT-TACTCGG-ATAACCGTAGTAATTCTAGA 140

Query 125 GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184
      |||
Sbjct 141 GCTAATACGTGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 200

```


>gb|KM020179.1| Rhopalosolen saccatus strain SAG 26.95 18S ribosomal RNA gene, partial sequence
Length=1752

Score = 1696.5 bits (1880), Expect = 0E00
Identities = 1052/1110 (94%), Gaps = 16/1110 (1%)
Strand = Plus/Plus

```
Query 5 ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 7 ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 66

Query 65 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 67 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTCGG-ATAACCGTAGTAATTCTAGA 125

Query 125 GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 126 GCTAATACGTGCGTAAATCCCGACTTATGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 185

Query 185 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCACGGCCTTGTGCC 244
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 186 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGGATCGCATGCCCTTGTGCC 245

Query 245 GGCATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC 304
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 246 GGCATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC 305

Query 305 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAAACG 364
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 306 ATGGTGGTAACGGGT-ACGGAGGATTAGGGTTCGATTCCGGAGAGGGCGCCTGAGAAAACG 364

Query 365 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCACACGGGGAGGT 424
      || ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 365 GCGACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCACACGGGGAGGT 424

Query 425 AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 484
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 425 AGTGACAATAAATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGTACAATGTA 484

Query 485 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 544
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 485 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 544

Query 545 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAGCTCGTAGTTGGATTTCCGGGTG 604
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 545 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAGCTCGTAGTTGGATTTCCGGATG 604

Query 605 TGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 605 TGTTGACGCGGTCTGCCATTGGTATGTACTGCGCTCGATGCATCTTTCTGCTGGGGACGA 664

Query 665 GCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 665 GCTCCTGGGCTTAACTGCTTGGGACTCGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724

Query 725 TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 725 TGTTCAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACATGATAGGACTCTGG 784

Query 785 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTC 844
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 785 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 843
```

```

Query 845  GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
          |||||||
Sbjct 844  GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCGAAAGCA 903

Query 904  TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
          |||||||
Sbjct 904  TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 963

Query 963  ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
          |||||||
Sbjct 964  ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGNTTGGCAGGTGTTCTATTGA- 1021

Query 1021 TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCG 1075
          |||||||
Sbjct 1022 TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCGGGGGGAGTATGGTTCG 1080

Query 1076 CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
          |||||||
Sbjct 1082 CAAGGCTGAAACTTAAAGGAATT-GACGGA 1110

```

>gb|KF791539.1| Chlorococcum sp. JBl small subunit ribosomal RNA gene, partial sequence
Length=1743

Score = 1696.5 bits (1880), Expect = 0E00
Identities = 1053/1110 (94%), Gaps = 17/1110 (2%)
Strand = Plus/Plus

```

Query 5  ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
          |||||||
Sbjct 23  ATTAAGCCATGCATGTCTAAGTATAAACCT-TTATACGGTGAAACTGCGAATGGCTCATT 81

Query 65  AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
          |||||||
Sbjct 82  AAATCAGTTATAGTTTATTTGATGGTACTTT-TACTCGG-ATAACCGTAGTAATTCTAGA 139

Query 125 GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184
          |||||||
Sbjct 140 GCTAATACGTGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 199

Query 185 CCGGGCTTGCCCGACCTTAGCGAATCATGATAACTTCACGAATCGCACGGCCTTGTGCC 244
          |||||||
Sbjct 200 CCGGGCTTGCCCGACCTTAGCGAATCATGATAACTTCACGAATCGCACGGCCTCGTGCC 259

Query 245 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACC 304
          |||||||
Sbjct 260 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACC 319

Query 305 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAAACG 364
          |||||||
Sbjct 320 AGGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAAACG 379

Query 365 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCACACGGGGAGGT 424
          |||||||
Sbjct 380 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCACACGGGGAGGT 439

Query 425 AGTGACAATAAATAACAATACTGGGCGTTTACGTCCTGGTAATTGGAATGAGAACAATGTA 484
          |||||||
Sbjct 440 AGTGACAATAAATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGTACAATGTA 499

Query 485 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCAGCAGCCGCGGTAATTCCA 544
          |||||||
Sbjct 500 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCAGCAGCCGCGGTAATTCCA 559

```

```

Query 545 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG 604
          |||
Sbjct 560 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG 619

Query 605 TGTGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
          |||
Sbjct 620 CGTCGACGCGGTCTGCCTCTGGTACGTACTGCGCTCGGTGCACCTTTCTGCCGGGGACGG 679

Query 665 GCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724
          |
Sbjct 680 GTTCCTGGGCTTCACTGTCTGGGACTCGGAGTCGGCGAGGTGACCTTGAGCAAATAAGAG 739

Query 725 TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
          |||
Sbjct 740 TGTTCAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 799

Query 785 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC 844
          |||
Sbjct 800 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 858

Query 845 GTATTTTCATTGTCAGAGGTGAAATTCCTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
          |||
Sbjct 859 GTATTTTCATTGTCAGAGGTGAAATTCCTGGATTTATGAAAGACGAACTTCTGCGAAAGCA 918

Query 904 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
          |||
Sbjct 919 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 978

Query 963 ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
          |||
Sbjct 979 ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA- 1036

Query 1021 TGACCCTGCCAGCA-CTTATGAGAATYCAAAGT-TTTTGGTTC--GGGGGA-TAWTGCCG 1075
          |||
Sbjct 1037 TGACCCTGCCAGCACCTTATGAGAAATCAAAGTCTTTGGGTTCGGGGGGAGTATGGTTCG 1095

Query 1076 CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
          |||
Sbjct 1097 CAAGGCTGAAACTTAAAGGAATT-GACGGA 1125

```

>gb|EF024170.1| Uncultured eukaryote clone Elev_18S_510 18S ribosomal RNA gene, partial sequence
gi|166083832|gb|EF024355.1| Uncultured Haematococcaceae clone Elev_18S_1005 18S ribosomal RNA
gene, partial sequence
Length=1776

Score = 1696.5 bits (1880), Expect = 0E00
Identities = 1053/1110 (94%), Gaps = 17/1110 (2%)
Strand = Plus/Plus

```

Query 5 ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
          |||
Sbjct 40 ATTAAGCCATGCATGTCTAAGTATAAACCT-TTATACGGTGAAACTGCGAATGGCTCATT 98

Query 65 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
          |||
Sbjct 99 AAATCAGTTATAGTTTATTTGATGGTACCTT-TACTCGG-ATAACCGTAGTAATTCTAGA 156

Query 125 GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184
          |||
Sbjct 157 GCTAATACGTGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 216

Query 185 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAAGTTCACGAATCGCACGGCCTTGTGCC 244

```

Sbjct	217	 CCGGGCTTGCCCGACCCTAGGCGAGTCATGACAACCTTCACGAATCGCACGGCCTTGTGCC	276
Query	245	GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC	304
Sbjct	277	 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC	336
Query	305	ATGGTGGTAAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG	364
Sbjct	337	 ATGGTGGTAAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG	396
Query	365	GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCACACGGGGAGGT	424
Sbjct	397	 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATCACCCAATCCCACACGGGGAGGT	456
Query	425	AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA	484
Sbjct	457	 AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGTACAATGTA	516
Query	485	AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA	544
Sbjct	517	 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA	576
Query	545	GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG	604
Sbjct	577	 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG	636
Query	605	TGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG	664
Sbjct	637	 TGTCGACGCGGTCTGCCTCTGGTATGTACTGCGGCGGTGCACCTTTCTGCTGGGGACGA	696
Query	665	GCTCCTGGGCTTAAGTCTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG	724
Sbjct	697	 GCTCCTGGGCTTCACTGTCTGGGACTCGGAGTCGGCGAGGTGACCTTGAGCAAACAAGAG	756
Query	725	TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG	784
Sbjct	757	 TGTTCAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG	816
Query	785	CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC	844
Sbjct	817	 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC	875
Query	845	GTATTTTCATTGTGACAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCG-AAGCA	903
Sbjct	876	 GTATTTTCATTGTGACAGGTGAAATTTCTGGATTTATGAAAGACGAACTTCTGCGAAAGCA	935
Query	904	TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT	962
Sbjct	936	 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT	995
Query	963	ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT	1020
Sbjct	996	 ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA-	1053
Query	1021	TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCG	1075
Sbjct	1054	 TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCGGGGGGAGTATGGTTCG	1112
Query	1076	CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104	
Sbjct	1114	 CAAGGCTGAAACTTAAAGGAATT-GACGGA 1142	

>gb|MG022715.1| Chlamydomodium starrii isolate CCAP 209/1B small subunit ribosomal RNA gene, partial sequence
Length=1233

Score = 1695.5 bits (1879), Expect = 0E00
Identities = 1052/1110 (94%), Gaps = 16/1110 (1%)
Strand = Plus/Plus

```
Query 5 ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAACTGCGAATGGCTCATT 64
      ||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 46 ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAACTGCGAATGGCTCATT 105

Query 65 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
      ||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 106 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTCGG-ATAACCGTAGTAATCTAGA 164

Query 125 GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184
      ||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 165 GCTAATACGTGCGTAAATCCCGACTTATGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 224

Query 185 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGAATCGCACGGCCTTGTGCC 244
      ||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 225 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAACTTCACGGATCGCATGCCCTCGTGCC 284

Query 245 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACC 304
      ||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 285 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACC 344

Query 305 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 364
      ||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 345 ATGGTGGTAACGGGT-ACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 403

Query 365 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 424
      || ||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 404 GCGACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 463

Query 425 AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 484
      ||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 464 AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGTACAATGTA 523

Query 485 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 544
      ||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 524 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 583

Query 545 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCGGGTG 604
      ||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 584 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCGGATG 643

Query 605 TGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
      ||| ||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 644 TGTTGACGCGGTCTGCCATTGGTATGTACTGCGCTCGATGCATCTTTCTGCTGGGGACGA 703

Query 665 GCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724
      ||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 704 GCTCCTGGGCTTAACTGCTTGGGACTCGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 763

Query 725 TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
      ||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 764 TGTTCAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACATGATAGGACTCTGG 823

Query 785 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTCC 844
      ||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct 824 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 882
```

```

Query 845 GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
          |||
Sbjct 883 GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCGAAAGCA 942

Query 904 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
          |||
Sbjct 943 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 1002

Query 963 ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
          |||
Sbjct 1003 ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCTATTGA- 1060

Query 1021 TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCG 1075
          |||
Sbjct 1061 TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCGGGGGGAGTATGGTTCG 1119

Query 1076 CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
          |||
Sbjct 1121 CAAGGCTGAAACTTAAAGGAATT-GACGGA 1149

```

>gb|MG022714.1| Chlamydomodium starrii isolate CCAP 209/1A small subunit ribosomal RNA gene, partial sequence
Length=1266

Score = 1695.5 bits (1879), Expect = 0E00
Identities = 1052/1110 (94%), Gaps = 16/1110 (1%)
Strand = Plus/Plus

```

Query 5 ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
          |||
Sbjct 47 ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 106

Query 65 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
          |||
Sbjct 107 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTCGG-ATAACCGTAGTAATTCTAGA 165

Query 125 GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184
          |||
Sbjct 166 GCTAATACGTGCGTAAATCCCGACTTATGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 225

Query 185 CCGGGCTTGCCCGACCTTAGCGAATCATGATAACTTCACGAATCGCACGGCCTTGTGCC 244
          |||
Sbjct 226 CCGGGCTTGCCCGACCTTAGCGAATCATGATAACTTCACGGATCGCATGCCCTCGTGGC 285

Query 245 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACC 304
          |||
Sbjct 286 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTCGATGGTAGGATAGAGGCCTACC 345

Query 305 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAAACG 364
          |||
Sbjct 346 ATGGTGGTAACGGGT-ACGGAGGATTAGGGTTCGATTCCGGAGAGGGCGCCTGAGAAAACG 404

Query 365 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCACACGGGGAGGT 424
          |||
Sbjct 405 GCGACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCACACGGGGAGGT 464

Query 425 AGTGACAATAAATAACAATACTGGGCGTTTACGCTCTGGTAATTGGAATGAGAACAATGTA 484
          |||
Sbjct 465 AGTGACAATAAATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGTACAATGTA 524

Query 485 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGTAATTCCA 544
          |||
Sbjct 525 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGTAATTCCA 584

```



```

Query 306 TGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACGG 365
      |||
Sbjct 240 TGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACGG 299

Query 366 CTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGTA 425
      |||
Sbjct 300 CTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGTA 359

Query 426 GTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTAA 485
      |||
Sbjct 360 GTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGCACAATGTAA 419

Query 486 ATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGTAATTCCAG 545
      |||
Sbjct 420 ATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGTAATTCCAG 479

Query 546 CTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTCGGGTGT 605
      |||
Sbjct 480 CTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTCGGGTGA 539

Query 606 GTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGGG 665
      |||
Sbjct 540 GTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTTCACCTTTCTGCTGGGGACGGG 599

Query 666 CTCCTGGGCTTAAGTCTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAGT 725
      |||
Sbjct 600 CTCCTGGGCTTAAGTCTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAGT 659

Query 726 GTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGGC 785
      |||
Sbjct 660 GTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGGC 719

Query 786 CTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTCG 845
      |||
Sbjct 720 CTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTCG 778

Query 846 TATTTTCATTGTCAGAGGTGAAATTTCTGGATTATGAAAGACGAACTTCTGCG-AAGCAT 904
      |||
Sbjct 779 TATTTTCATTGTCAGAGGTGAAATTTCTGGATTATGAAAGACGAACTTCTGCGAAAGCAT 838

Query 905 TTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGATA 963
      |||
Sbjct 839 TTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGATA 898

Query 964 CCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCCATTGATT 1021
      |||
Sbjct 899 CCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCCATTGA-T 956

Query 1022 GACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCGC 1076
      |||
Sbjct 957 GACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCGGGGGGAGTATGGTCGC 1016

Query 1077 AAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
      |||
Sbjct 1017 AAGGCTGAAACTTAAAGGAATT-GACGGA 1044

```

>dbj|AB983625.1| Chlamydomodium starrii gene for 18S rRNA, partial sequence, strain: SAG 16.87
Length=1744

Score = 1695.5 bits (1879), Expect = 0E00
Identities = 1052/1110 (94%), Gaps = 16/1110 (1%)
Strand = Plus/Plus

Query 5 ATTAAGSCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 64
 |||||
 Sbjct 22 ATTAAGCCATGCATGTCTAAGTATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATT 81

Query 65 AAATCAGTTATAGTTTATTTGATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGA 124
 |||||
 Sbjct 82 AAATCAGTTATAGTTTATTTGATGGTACCTCTTACTCGG-ATAACCGTAGTAATCTAGA 140

Query 125 GCTAATACATGCGTAAATCCCGACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 184
 |||||
 Sbjct 141 GCTAATACGTGCGTAAATCCCGACTTATGGAAGGGACGTATTTATTAGATAAAAAGGCCAG 200

Query 185 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAECTTACGAATCGCACGGCCTTGTGCC 244
 |||||
 Sbjct 201 CCGGGCTTGCCCGACCTTAGGCGAATCATGATAAECTTACGGATCGCATGCCCTCGTGCC 260

Query 245 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC 304
 |||||
 Sbjct 261 GGCGATGTTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACC 320

Query 305 ATGGTGGTAACGGGTGACGGAGGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACG 364
 |||||
 Sbjct 321 ATGGTGGTAACGGGT-ACGGAGGATTAGGGTTCGATTCCGGAGAGGGCGCCTGAGAAACG 379

Query 365 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCACACGGGGAGGT 424
 |||||
 Sbjct 380 GCGACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCACACGGGGAGGT 439

Query 425 AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 484
 |||||
 Sbjct 440 AGTGACAATAAATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGTACAATGTA 499

Query 485 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 544
 |||||
 Sbjct 500 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 559

Query 545 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG 604
 |||||
 Sbjct 560 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGATG 619

Query 605 TGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
 |||||
 Sbjct 620 TGTTGACGCGGTCTGCCATTGGTATGTACTGCGCTCGATGCATCTTTCTGCTGGGGACGA 679

Query 665 GCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724
 |||||
 Sbjct 680 GCTCCTGGGCTTAACTGCTTGGGACTCGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 739

Query 725 TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
 |||||
 Sbjct 740 TGTTCAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACATGATAGGACTCTGG 799

Query 785 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC 844
 |||||
 Sbjct 800 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 858

Query 845 GTATTTTCATTGTCAGAGGTGAAATTCCTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
 |||||
 Sbjct 859 GTATTTTCATTGTCAGAGGTGAAATTCCTGGATTTATGAAAGACGAACTTCTGCGAAAGCA 918

Query 904 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
 |||||
 Sbjct 919 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 978

```

Query 963 ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
          ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 979 ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCTATTGA- 1036

Query 1021 TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTC--GGGGGA-TAWTGCCG 1075
          ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 1037 TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCGGGGGGAGTATGGTTCG 1095

Query 1076 CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
          ||||| ||||| ||||| ||||| |||||
Sbjct 1097 CAAGGCTGAAACTTAAAGGAATT-GACGGA 1125

```

>gb|MG491217.1| Chlorococcum oleofaciens strain CAMU MZ-Ch27 small subunit ribosomal RNA gene, partial sequence
Length=1665

Score = 1692.8 bits (1876), Expect = 0E00
Identities = 1039/1089 (95%), Gaps = 16/1089 (1%)
Strand = Plus/Plus

```

Query 26 TATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATTAAATCAGTTATAGTTTATTTG 85
          ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 1 TATAAACTGCTTATACGGTGAAACTGCGAATGGCTCATTAAATCAGTTATAGTTTATTTG 60

Query 86 ATGGTACCTCCTACTTGGTATAACCGTAGGAAATCTAGAGCTAATACATGCGTAAATCCC 145
          ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 61 ATGGTACTTT-TACTCGG-ATAACCGTAGTAATCTAGAGCTAATACGTGCGTAAATCCC 118

Query 146 GACTTCTGGAAGGGACGTATTTATTAGATAAAAAGGCCAGCCGGGCTTGCCCGACCTTAGG 205
          ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 119 GACTTATGGAAGGGACGTATTTATTAGATAAAAAGGCCAGCCGGGCTTGCCCGACCTTAGG 178

Query 206 CGAATCATGATAAATTCACGAATCGCACGGCCTTGTGCCGGCGATGTTTCATTCAAATTT 265
          ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 179 CGAATCATGATAAATTCACGAATCGCACGCCCTTGTGGCGGCGATGTTTCATTCAAATTT 238

Query 266 CTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACCATGGTGGTAACGGGTGACGGA 325
          ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 239 CTGCCCTATCAACTTTTCGATGGTAGGATAGAGGCCTACCATGGTGGTAACGGGTGACGGA 298

Query 326 GGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACGGCTACCACATCCAAGGAAGGC 385
          ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 299 GGATTAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACGGCTACCACATCCAAGGAAGGC 358

Query 386 AGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGTAGTGACAATAAATAACAATAC 445
          ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 359 AGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGTAGTGACAATAAATAACAATAC 418

Query 446 TGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTAAATATCTTAACGAGTATCCAT 505
          ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 419 TGGGCATTTATGTCTGGTAATTGGAATGAGTACAATGTAAATATCTTAACGAGTATCCAT 478

Query 506 TGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCAGCTCCAATAGCGTATATTTAA 565
          ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 479 TGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCAGCTCCAANAGCGTATATTTAA 538

Query 566 GTTGTTCAGTTAAAAAGCTCGTAGTTGGATTTCGGGTGTGTCGACGCGGTCTGCCTCTG 625
          ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct 539 GTTGTTCAGTTAAAAAGCTCGTAGTTGGATTTCGGATGTGTTGACGCGGTCTGCCTCTG 598

Query 626 GTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGGGCTCCTGGGCTTAACTGCTTG 685
          ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

```


Sbjct 339 ATGGTGGTAACGGGT-ACGGAGGATTAGGGTTCGATTCCGGAGAGGGNGCCTGAGAAAACG 397
 Query 365 GCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGGAGGT 424
 || |||||
 Sbjct 398 GCGACCACATCCAAGGAAGGCAGCAGGCGCGCAAATTACCCAATCCCGACACGGGNAGGT 457
 Query 425 AGTGACAATAAATAACAATACTGGGCGTTTACGTCTGGTAATTGGAATGAGAACAATGTA 484
 |||||
 Sbjct 458 AGTGACAATAAATAACAATACTGGGCATTTATGTCTGGTAATTGGAATGAGTACAATGTA 517
 Query 485 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 544
 |||||
 Sbjct 518 AATATCTTAACGAGTATCCATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCA 577
 Query 545 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGGTG 604
 |||||
 Sbjct 578 GCTCCAATAGCGTATATTTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGGATTTCCGGATG 637
 Query 605 TGTCGACGCGGTCTGCCTCTGGTATGTACTGCGCTCGGTGCACCTTTCTGCTGGGGACGG 664
 ||| |||||
 Sbjct 638 TGTTGACGCGGTCTGCCATTTGGTATGTACTGCGCTCGATGCATCTTTCTGCTGGGGACGA 697
 Query 665 GCTCCTGGGCTTAACTGCTTGGGACCTGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 724
 |||||
 Sbjct 698 GCTCCTGGGCTTAACTGTCTGGGACTCGGAATCAGCGAAGTGACCTTGAGCAAACAAGAG 757
 Query 725 TGTTCAAAGCAAGCCCACGCTCTGAATTTTTTAGCATGGAATCACACGATAGGACTCTGG 784
 |||||
 Sbjct 758 TGTTCAAAGCAAGCCTACGCTCTGAATTTTTTAGCATGGAATCACATGATAGGACTCTGG 817
 Query 785 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCATTTTC 844
 |||||
 Sbjct 818 CCTATCTTGTGGTCTGTAGGACCGGAGTAATGATTAAGAGGGACAGTCGGGGGCA-TTC 876
 Query 845 GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCG-AAGCA 903
 |||||
 Sbjct 877 GTATTTTCATTGTCAGAGGTGAAATTCTTGGATTTATGAAAGACGAACTTCTGCGAAAGCA 936
 Query 904 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCG-AGACGATTAGAT 962
 |||||
 Sbjct 937 TTTGCCAAGGATGTTTTTCATTGATCAAGAACGAAAGTTGGGGGCTCGAAGACGATTAGAT 996
 Query 963 ACCGTCGTAGKCYTCAA-CATAAACGATGCCGACTAGGGATTGGCA-GTGTTCATTGAT 1020
 |||||
 Sbjct 997 ACCGTCGTAGTC-TCAACCATAAACGATGCCGACTAGGGATTGGCAGGTGTTCTATTGA- 1054
 Query 1021 TGACCCTGCCAGCA-CTTATGAGAATYCAAAGTTTTT-GGTTTC--GGGGGA-TAWTGCCG 1075
 |||||
 Sbjct 1055 TGACCCTGCCAGCACCTTATGAGAAATCAAAGTTTTTGGGTTCCGGGGGAGTATGGTTCG 1113
 Query 1076 CAAGGCT-TGACTTAAGGGAGTTGGACGGA 1104
 |||||
 Sbjct 1115 CAAGGCTGAAACTTAAAGGAATT-GACGGA 1143