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Complete nucleotide sequence of a 23S ribosomal RNA gene from *Micrococcus luteus*

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A 23S ribosomal (rRNA) gene from Micrococcus luteus has been cloned and sequenced. DNA sequencing was performed on suitable subclones (M13 or pUC vectors, 1) employing the dideoxy technique (2). Oligonucleotide primers were synthetized according to Frank et al. (3). M.luteus is the first representative of the high G+C branch of the Gram-positive phylum (4) for which a 23S rRNA gene sequence is reported.

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1     GTGAAAGTTTCCAAGGGCGC ATGGTGGATGCCTTGGCAAC AGGAGCCGAAGAAGGACGTG GGAATCTGCGATAAGCCTGG TGGAGTCGATAACCGGACGT
101   TGAGACCAGGAATTCCGAAT GGGGAAACCCCGCACGACGT GTCGTGTGACCCCCGGTTGA ACACATAGGCCGGGGGGAGG GAACGTGGGGAACTGAAACA
201   TCTCAGTACCCACAGGAAGA GAAAACAAAAGTGATTCCGT TAGTAGTGGCGAGCGAACGC GGATGGGGCTAAACCGTATG TGTGTGATACCCGGCAGGGG
301   TTGCATGTGCGGTGTTGTGG GCCCCTCCTTGTCATGTCTG CCGGCATGGCGCAGTGAGGT GCGGGCATATAGACGAACCA GTGTGGATGCTGGACCGTAG
401   AGGGTGAGAGTCCCGTAGTC GAAATGTGTTCCGCCGCTGT TGGAGGGTTGCCCGAGTAGC ACGGGGCCCGAGGAATCCCG TGTGAATCTGCCAGGACCAC
501   CTGGTAAGCCTGAATACTAC CTGTTGACCGATAGCGGATC AGTACCGTGAGGGAATGGTG AAAAGTACCCCGGGAGGGGA GTGAAATAGTACCTGAAACC
601   ATGTGCCTACAAACCGTTGG AGCCTCCTTGTGGGGTGACA GCGTGCCTTTTGAAGAATGA GCCTGCGAGTTAGTGATACG TGGCGAGGTTAACCCGTGTG
701   GGGAAGCCGTAGCGAAAGCG AGTCTGAATAGGGCGATTGA GTCGCGTGTCCTAGACCCGA AGCGGAGTGATCTACCCATG GCCAGGTTGAAGCGCGTGTA
801   AGAACGCGTGGAGGACCGAA CCCACTTCAGTTGAAAATGG AGGGGATGAGTTGTGGGTAG GGGTGAAAGGCCAATCAAAC TCCGTGATAGCTGGTTCTCC
901   CCGAAATGCATTTAGGTGCA GCGTCACGTGTTTCTTCCCG GAGGTAGAGCTACTGGATGG ACGATGGGCCCTACAAGGGC TACTGACTTCAGCCAAACTC
1001  CGAATGCCGGGAAGTGAGAG CGTGGCAGTGAGACTGTGGG GGATAAGCTTCATAGTCGAG AGGGAAACAGCCCAGACCAC CGGTTAAGGCCCCTAAGCGT
1101  GTGCTAAGTGGGAAAGGATG TGGAGTTGCTGAGACAACCA GGAGGTTGGCTTAGAAGCAG CCACCCTTGAAAGAGTGCGT AATAGCTCACTGGTCAAGTG
1201  ATTCCGCGCCGACAATGTAG CGGGGCTCAAGTACACCGCC GAAACCGTGGCATTCAGTTT TGCTGGATGGGTAGGGGAGC GTCGTTCACGAGGTGAAGCC
1301  AGCGGGTAACTTCTGGTGGA TTGTGGACGAGTGAGAATGC AGGCATGAGTAGCGAAAGAC GGGTGAGAAACCCGTCCGCC GGATGACTAAGGGTTCCAGG
1401  GTCAAGCTAATCTGCCCTGG GTAAGTCGGGACCTAAGGCG AGGCCGACAGGCGTAGTCGA TGGACAACGGGTTGATATTC CCGTACCAGTGAAGAACCGC
1501  CCATGCTGAGCCCGGTGATAC TAACCGCCCGAACCATCCCG AACCTCGTCTTTGACGGGGT CGGTGATGGGGAGCGCGGGA CCTGAACCGGGGAGGCAAGC
1601  GCATTAACAGGTGTGACGCA GGAAGGTAGCCGGGCCGGGC AATGGAAATGACCTGGTCTA AGGGTGTAGGGCTGCCGGTA GGTAAATCCGCCGGCTGTAT
1701  GCCTGAGACCTGATGGGCGC CCACATGGTGGGTGATCCGG TGATCCTATGCTGCCTAGAA AAGCATCGGCGCGAGGTTCA AACTGCCCGTACCCTAAACC
1801  GACACAGGTGGTCAGGTCAG AGAATACTAAGGCGATCGAG AGAATCATGGTTAAGGAACT CGGCAAAATGCCCCCGTAAC TTCGGGAGAAGGGGGGCCCC
1901  AACCTTGAGCACCACGTGCT GGTGTGAGGGGATCGGGGCC GCAGAGACCAGGGGGAAGCG ACTGTTTATCAAAAACACAG GTCCATGCGAAGTCGTAAGA
2001  CGATGTATATGGACTGACTC CTGCCCGGTGCTGGAAGGTT AAGGGGACCCGTTAGCTTCG GCGAAGCGGAGAACTTAAGC CCCAGTAAACGGCGGTGGTA
2101  ACTATAACCATCCTAAGGTA GCGAAATTCCTTGTCGGGTA AGTTCCGACCTGCACGAATG GAGTAACGACTTCCCCGCTG TCTCAACCATGAACTCGGCG
2201  AAATTGCATTACGAGTAAAG ATGCTCGTTACGCGCAGAAG GACGGAAAGACCCCGTGACC TTTACTATAGTTTGGTATTG GTGTTCGGTGTGGCTTGTGT
2301  AGGATAGGTGGGAGACTGTG AAGCGGGCACGCCAGTGTTC GTGGAGTCGTCGTTGAAATA CCACTCTGGTCACTCTGGAT ATCTAACTTCGGCCCGTGAT
2401  CCGGGGTCAGGGACAGTGCCT GATGGGTAGTTTAACTGGGG CGGTTGCCTCCTAAAATGTA ACGGAGGCGCCCAAAGGTTC CCTCAGCCTGGTTGGTAATC
2501  AGGTGTCGAGTGCAAGTGCA CAAGGGAGCTTGACTGTGAG AGTGGCAGCTCGAGCAGGGA CGAAAGTCGGGACTAGTGAT CCGGCGGCTCGTTGTGGAAC
2601  GGCCGTCGCTCAACGGATAA AAGGTACCTCGGGGATAACA GGCTGATCTTGCCCAAGAGT CCATATCGACGGCATGTTTG GCACCTCGATGTCGGCTCGT
2701  CGCATCCTGGGGCTGGAGTA GGTCCCAAGGGTTGGGCTGT TCGCCCATTAAAGCGGTACG CGAGCTGGGTTCAGAACGTC GTGAGACAGTTCGGTCCCTA
2801  TCCTCTGCGCGCGTTGGAAA TTTGAGAAGGTCWGTCCCTA GTACGAGAGGACCGGGACGG ACGAACCTCTGGTATGTCAG TTGTACCGCCAGGTGCATGG
2901  CTGATTAGCTACGTTCGGGA TGGATAACCGCTGAAAGCAT CTAAGCGGGAAGCCGGCTTC GAGATGAGATTTCCTTGCCC CTTTGAGGGTGTGAGGCCCC
3001  CAGCTAGAACACTGGGTTGA TAGGCTGGATGTGGAAGCGA GGACTGAAGACTCGTGAAGC TGACCAGTACTAATAGGCCG ATGACTTACACACA
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