Primary structure of the *Neurospora crassa* small subunit ribosomal RNA coding region

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The small subunit ribosomal RNA coding region for *Neurospora crassa* is contained within a 2.7 kb HindIII fragment in the Plasmid pkD002 (1). Subsequent to subcloning into the single stranded M13 phage mp18, complete sequences for both strands of the coding regions were determined by initiating the dideoxynucleotide chain termination sequencing protocols (2) with oligonucleotide primers that are complementary to highly conserved regions in eukaryotic small subunit rRNA genes (3). The *Neurospora* sequence is 1795 nucleotides in length and is 87.6 percent homologous with that of *Saccharomyces cerevisiae* (4) and 96.9 percent similar to *Podospira anserina* (Sogin, unpublished data).

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1  TACCTGGTTG ATTCTGCCAG TAGTCATATG CTTGCTCTCA AGATTAAAGCC ATGCATGTCT AAGTTTAAGC AATTAACCG
81  CGAAACTGCG AATGGCTCAT TAAATCAGTT ATAGTTTATT TGATAGTACC TTACTACATG GATAACCGTG GTAATTCTAG
161 AGCTAATACA TGCTAAAAC CCAGACTTCG GAAGGGGTGT ATTTATTAGA TTA AAAACCA ATGCCCTTCG GGGCTAACTG
241 GTGATTCATA ATAACCTCTC GAATCGCATG GCCTTGCCTT GCGGATGGTT CATTCAAATT TCTGCCCTAT CAACTTTCGA
321 CGGCTGGGCT TTGGCCAGCC ATGGTGACAA CGGTAACGG AGGGTTAGGG CTCGACCCCG GAGAAGGAGC CTGAGAAACG
401 GCTACTACAT CCAAGGAAGG CAGCAGGCGC GCAAATTACC CAATCCGAC ACGGGAGGT AGTGACAATA AATACTGATA
481 CAGGGCTCTT TTGGGCTCTG TAATTGGAAT GAGTACAATT TAAATCCCTT AACGAGGAAC AATTGGAGGG CAAGTCTGGT
561 GCCAGCAGCC GCGGTAATTC CAGCTCCAAT AGCGTATATT AAAGTTGTTG AGGTTAAAAA GCTCGTAGTT GAACCTTGGG
641 CTCGGCCGCT GGTCCGCCCT ACCGCGTGCA CTGACTGGGT CGGCGCTTTT TTCTGGGAGA ACCGCAATGCC CTTCACTGGG
721 TGTGTGGGGG AACCAAGGACT TTTACCGTGA ACAAATCAGA TCGCTCAAAG AAGGCTATG CTCGAATGTA CTAGCATGGA
801 ATAATAGAAT AGGACGTGTG GTTCTATTTT GTTGTTTCT AGGACCGCCG TAATGATTAA TAGGACAGT CGGGGCATC
881 AGTATTCAT TGTGAGAGGT GAAATCTTGT GATTATTGTA AGACTAATA CTCGGAAGC ATTTGCCAAG GATGTTTCA
961 TTAATCAGGA ACGAAAGTTA GGGATCGAA GACGATCAGA TACCGTCGTA GTCTTAACCA TAAACTATGC CGATTAGGGA
1041 TCGGACGGTG TTATTTTTTG ACCCGTTCGG CACCTTACGA TAAATCAAAA TGTTTGGGCT CCTGGGGGAG TATGGTCGCA
1121 AGGCTGAAC TTAAGAAAT TGACGGAAGG GCACCACAG GGTGGAGCC TGCGGCTTAA TTGACTCAA CACGGGGAAA
1201 CTCACAGGT CCAGACACGA TGAGGATTGA CAGATTGAGA GCTCTTTCTT GATTTCGTGG GTGGTGGTGC ATGGCGCTTC
1281 TTAGTTGGTG GAGTGATTGG TCTGCTTAAT TGCGATAACG AACGAGACCT TAACCTGCTA AATAGCCCGT ATTGCTTTGG
1361 CAGTACCGTG GCTTCTTAGA GGGACTATCG GCTCAAGCCG ATGGAAGTTT GAGGCAATAA CAGGTCTGTG ATGCCCTTAG
1441 ATGTTCTGGG CCGCAGCGCG GCTACACTGA CACAGCCAGC GAGTACTCCC TTGGCCGGAA GGTCCGGGTA ATCTTGTTAA
1521 ACTGTGTGCT GCTGGGGATA GAGCATTGCA ATTATTGCTC TTCAACGAGG AATCCCTAGT AAGCGCAAGT CATCAGCTTG
1601 CGTTGATTAC GTCCCTGCCC TTTGTACACA CCGCCGCTCG CTACTACCGA TTGAATGGCT CAGTAGAGT TCCGGACTGG
1681 CCCAGGGAGG TCGGCAACGA CCACCCAGGG CCGGAAAGCT ATCCAAACTC GGTCAATTAG AGGAAGTAAA AGTCGTAAAC
1761 AGGTCTCCGT TGGTGAACCA CGGAGGGAT CATTA

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