

Nucleotide sequence of V1, a ribosomal protein gene from *Dictyostelium discoideum*

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The sequence of the cDNA corresponding to the vegetative specific gene V1 (Dev. Biol. 119, 433-441) is presented. A single intron of at least 700 bp exists between residues 32 and 33, or within the sixth codon. The start and stop codons of the open reading frame are underlined. Data base searches suggest V1 encodes a protein homologous to the ribosomal protein L2 of *E. coli* (28.1% identity), common tobacco chloroplast (27%), and liverwort (27.1%). These percent identities are consonant with those found between two other ribosomal proteins from *Dictyostelium* and their *E. coli* counterpart (L. Steel, personal communication; CKS, unpublished). The predicted amino acid sequence is shown and compared to that of the *E. coli* protein. Bold letters show identical amino acids, and conservative amino acid changes are indicated by underlines. (accession No. x15710; supported by NSF grant DCB 8809026).

TATCAAAAACGCCAAATGGGTAGAATAATCAGAGCTCAAAGAAAAGGTAA 50
 AGCCGGTTCAGTTTTCGGTGCACACACTCACCACCGTAAAGGTACCCAC 100
 GTTCCCGTGCCTTAGATTATGCCGAACGTCAAGGTTACGTTAAAGGTGTT 150
 GTC AAGGAGATCATCCACGATCCAGGTAGAGGTGCTCCATTAGCCCGTGT 200
 TGTTTTCAAAGGCTTAACCAATTCAAATTAGACAAAACAATTTATTCATCG 250
 CCCCAGAAGGTATGCACACTGGTCAATTTGTTTTCGCTGGTAAAAAAGCC 300
 ACCCTCACCATTGTCACATCTCCCAATTGGTAAACTCCAGAAGGTAC 350
 CATCATTTGCAACGTTGAAGAAAACCTCGGTGATTGTGGTGCTGTTGCTC 400
 GTTGTTCAGGTAACATATGCTACCATCGTCTCACACAACCCAGATGAAGGT 450
 GTTACCCGTATCAAATTAACCATCAGGTTCAAAGAAGAACGTTCTTCATT 500
 AGCTCGTGTATGATCGGTATTGTTGCCGGTGGTGGTGTATCGATAAAC 550
 CAATGCTCAAAGCTGGTCGTGCTTTCCACAAATACAGAGTTAAGAAGAAT 600
 AACTGGCCAAAAGGTTAGAGGTGTTGCTATGAATCCAGTAGAACATCACAC 650
 GGTGGTGGTAATCATCAACATGTTGGTCATGCCACTACAACCAAGAGAGA 700
 CGATCCAGCTGGTAAGAAGGTTGGTTAATTGCTGCCCGTGGTACTGCTG 750
 GTTTAGAGGAACTAAAAACATTTCAAGTAAACTGCATTCAAACCTTTT 800
 AT

Dd MGR I I RAQRKKGKAGSVFGAHTGGR
 Ec A VVKCKPTSPQRRHVVNPELHKGKPPA PL L EKNSKSGGRNNGRITT RH IGGG

KGT PRFRALDYAEROGYYKGVVKEI I HDPGRGAPLARVYEKGLTQFKL DKOLEI
 H- KQAYRI VDFKRNKDGI PA VVERLEYDPN RS ANIALVLYK- - - - DGERRYIL

APEGMHTGQVFVAGKKA TLTI RH I LP I GK LPEGT LIC NVEE KLGDCGAVARC
 APKGLKAGDQIQ SGVD AAIKPGNTLPMRN I PVGSTVHVNVEMKPKGGQLARS

SGNYAIVSHNPDEGVTLTYOIT I R E KEERSLARAMIGI VAGGGR IDK PMLKAG
 AGTVVQIVARD-GAYVTLRLRS GEMRKKVEAD- CRATLGEVGN A EHMLRVLGKAG

RAPHKYRVKNNWPKYVRGYAMNPVEHHTV VV I INMLVMPL OPRET I QLVRK
 AA - RWRGVR - - - PTVRGTAMNPVDHIFGG GHEGRI N PGKHPVTPWGVQTKG

LV
 KKTRSNKRTDKFIVRRRSK