
An asparagine tRNA gene from lupin mitochondria

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The recombinant plasmid pEB-6 (1) containing the yellow lupin mitochondrial DNA has been partially sequenced. We report here the sequence of EcoRI - EcoRI fragment containing trnN(GUU) gene (underlined) and its flanking regions. The gene is 97% and 99% homologous to the corresponding chloroplast genes of tobacco (2) and maize (3). This lupin tRNA gene displays high sequence homology with *Petunia* sp. gene (97%) (4), as well as with the tRNA^{Asn}(GUU) isolated from *Lupinus luteus* (89%) (5). No sequence coding for the 3'-terminal CCA triplet is found in the gene. Comparison of the given 5' and 3' flanking regions of the structural gene with the corresponding parts of tobacco (2) shows a homology of 85%.

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  1 GAAATAGAAAGAGATAGACTAGAACCGACATCTCTTATCTCAATGACACCAAAGAGAGGG
  61 ATATTA AATGAATGGAATTAGTATATGGGTGGAATATAATGAAATAGAGCCACTTTGAGG
  121 TTCCCTATGAAATGAGGCATGGAACGGAGCCACTGCGAAGAAGTTCACGAGTTACGAAG
  181 GAAACTTCGAGCTCATATTGGTCATGGGTTGAGAACGGGAATTGAACTCTATGAGCTCGA
  241 ATTTCCCGTTGTTCCTCAGTAGCTCAGTGGTAGAGCGGTCGGCTGTTAACTGACTGGTCC
  301 TAGGTTCGAATCCTACTTGGGGAGATTTGATTAATTCGGAATCGGAATGAAAGGGTTTC
  361 GCTTTGCCAATTAAGAGTAGGTAACCTGTTCCCCCTGTCTTTGTTTCTATTGCATTCTA
  421 TCTCATCGTATCCCATTCTGTTCTGGGATATTTGAGAATCGCCGTCAATACTCGGTGTAG
  481 GTTCGGGATACTCCTTTGTTCCACAGTCCCGGGCTATTTAATTTAACTAACCAATTAAG
  541 AATTATCAGATGTACTAGGACTAGCAATAGCGAGTGCATCTTTGATGCAGTCATCAATTC
  601 TCCGAGAGGCAACAATTACCGCGAGCAA
  
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