

Sequence of a cDNA encoding rat ribosomal protein homologous to *Xenopus laevis* ribosomal protein S8

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A cDNA clone (pRRHIS8) which encodes rat ribosomal protein homologous to *Xenopus laevis* ribosomal protein S8 has been isolated from a lambda gt10 cDNA library constructed using poly(A⁺) mRNA from L6α1 rat myoblasts (1). The cDNA insert includes a 5' non coding sequence of 20 nucleotides, an open reading frame of 585 nucleotides which encodes a putative protein of 195 amino acid residues and a 3' non coding sequence of 36 nucleotides followed by a 3' polyA tail. The polyadenylation signal AATAAA is located at position 621–626 in the 3' non coding region. The poly peptide deduced from the cDNA sequence shows 85% homology with the *Xenopus laevis* ribosomal protein S8 (2). The size of the mRNA which encodes cDNA pRRHIS8 is about 700 nucleotides as revealed by Northern blot and about 10 copies of this gene are present in rat genome.

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REFERENCES

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1 CACTCCGTA A GACGAAGCCA TGTCTAGTC GAGCGCCAAG ATTGTGAA G CCAATGGCAA
 61 GAAGGGAGAC GAGTTTGAGT CTGGCATCTC TCTAGGCCCTG CTTCAGGCTG AGATGAGCTG
121 CGAACCTGAG ACGCAGCTGT GGGAACTCA CATCACCGG C GAAAAGAAA TCGAAGTCGG
181 TTGGTGTGCA AAAAGCCATCA TAATTTTTGT ACCAGTCTCT CAGCTGAAAT CTTTCAGAA
241 AAATGGGCAAG TCCCGCAAGG TTCCGGATT GGGAAAAGG ATTCTAGGGT AACACGCTAGT
301 CCTTCACTGG A CAGAGGGAGG TCTGGCCCAA GCGAACCCGA AAAAGCCGTA C GAAAATTTA
361 GCAAAAGGCC CAGAAGGCC CCCTGCAGAG CAGTCGAGCAG CGAGGCGATCC TTGAGGATTG
421 GGTCTTCCTTCA AGTGGAAATT TGCGGAAGG GATCCCTGTG AAATCTGTGAG CGACGGCGGT
481 CATAAAAGTT CATTAGACA AAGCAGCAGCA GAACACAGTG GAGCACAAGG TCAGAACTTT
541 TTCTGGCTG T CAAACAGAGC ACTAGGCAAGG GLGGATTTAA TTTGAAATTCT CAGAAGTTTC
801 ATTTAAAGGA AAAATGACTG AATAAAATGT CATTCTATAA AAAAAA AAAAAA

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Figure 1. Nucleotide sequence of pRRHIS8 cDNA. Start and stop codon are underlined.

Figure 2. Amino acid comparison of pRRHIS8 and ribosomal protein S8 from *Xenopus laevis* (2).

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