

## Cloning and sequencing of mouse ribosomal protein S12 cDNA

Mohamed Ayane\*, Peter Nielsen and Georges Köhler

Max-Planck-Institut für Immunbiologie, Stübeweg 51, 7800 Freiburg, FRG  
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A cDNA clone encoding mouse ribosomal protein S12 has been isolated from a  $\lambda$ gt<sub>11</sub> library derived from the Abelson virus transformed cell line 33.1+ (C. Page and G. Köhler, unpublished). Northern blot hybridization with this insert detected a message of 1.1 kb in all cell lines and mouse tissues tested. Compared to the corresponding rat (1) cDNA sequence (Fig. 1), the first 16 bp of the mouse cDNA in the 5' untranslated region are totally different from the rat untranslated sequence and may be an artefact generated during cDNA synthesis. There are 15 nucleotide differences written below the mouse sequence in the coding sequence.

The predicted amino acid sequence of mouse S12 is identical to the rat sequence except for an additional 2 lysines at the C-terminus.

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                                     M A E E G I A A
1  tegggggggccnancgggtgcgctcaagattcggcgtcaccctgattcaccgccatggccgaggaaggcatagctgct  80
                                     a c
G G V M D V N T A L Q E V L K T A L I H D G L A R G I
81  ggaggtgtaatggagctcaacactgctctacaagaggtgctgaagaccgccctcatccacgatggcctagcacgtggcat  160

R E A A K A L D K R Q A H L C V L A S N C D E P M Y V
161  acgcgaagctgccaaagccttagacaagcgaagcccatctgtgtgtgctcgcatccaactgtgatgagcccatgtatg  240
                                     c c t
K L V E A L L A E H Q I N L I K V D D N K K L G E W
241  tcaagctggtggagcacttttgctgagcaccaaatcaacctgataaaggttgatgacaacaagaaactaggggaatgg  320
                                     g c c g
V G L C K I D R E G K P R K V V G C S C V V V K D Y G
321  gtaggcctctgtaaatcgatcgagagggcaaacaccggaaggtggttggttgcaagttgctgagttggttaaggactatgg  400
                                     g g a t a
K E S Q A K D V I E E Y F K C K K *
401  caaagaatctcagccaaggatgtcatcgaggaatacttcaagtgcagaataataaattttggctga  470
                                     g a t g t a a a

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\*To whom correspondence should be addressed

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