

cDNA sequence coding for a translationally controlled human tumor protein

Burckhard Gross, Matthias Gaestel, Hans Böhm and Heinz Bielka

Department of Cell Biology, Central Institute of Molecular Biology, Academy of Sciences of the GDR,
R.-Rössle-Strasse 10, Berlin 1115, GDR
Submitted September 13, 1989

EMBL accession no. X16064

The sequence presented was obtained by screening a cDNA library constructed in lambda gt10 from human mammary carcinoma with probes derived from cDNA of the translationally controlled, growth-related mouse tumor protein p23 (1,2). It has 86% similarity to the mouse cDNA sequence and encodes a protein with 96% similarity to the mouse tumor protein. The 3'-primed noncoding region of the appropriate mRNA has three putative translation inhibitory elements (3), which are underlined.

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1  CCCCCCGAGCGCCGCTCCGGCTGCACCGCGCTCGCTCCGAGTTTCAGGCTCGTGCTAAG
61  CTAGCGCCGTCGTCGTCTCCCTTCAGTCGCCATCATGATTATCTACGGGACCTCATCAG
      M I I Y R D L I S
121 CCACGATGAGATGTTCTCCGACATCTACAAGATCCGGGAGATCGCGGACGGGTTGTGCT
      H D E M F S D I Y K I R E I A D G L C L
181 GGAGGTGGAGGGGAAGATGGTCAGTAGGACAGAAGGTAACATTGATGACTCGCTCATTGG
      E V E G K M V S R T E G N I D D S L I G
241 TGGAAATGCCTCCGCTGAAGGCCCGAGGGCGAAGGTACCGAAAGCACAGTAATCACTGG
      G N A S A E G P E G T E S T V I T G
301 TGTGCATATTGTCATGAACCATCACCTGCAGGAAACAAGTTTCACAAAAGAAGCCTACAA
      V D I V M N H H L Q E T S F T K E A Y K
361 GAAGTACATCAAAGATTACATGAAATCAATCAAAGGGAAACTTGAAGAACAGAGACCAGA
      K Y I K D Y M K S I K G K L E E Q R P E
421 AAGAGTAAACCTTTTATGACGGGCTGCAGAACAAGTCAAGCACATCCTTGCTAATTT
      R V K P F M T G A A E Q I K H I L A N F
481 CAAAACTACCAGTCTTTATTGGTAAAACATGAATCCAGATGGCATGGTTGCTCTATT
      K N Y Q F F I G E N M N P D G M V A L L
541 GGACTACCGTGAGGATGGTGTGACCCCATATATGATTTTCTTAAGGATGGTTAGAAAT
      D Y R E D G V T P Y M I F F K D G L E M
601 GGAAAAATGTTAACAAATGTGGCAATTATTTTGGATCTATCACCTGTCATCATAACTGGC
      E K C
661 TTCTGCTTGTTCATCCACACAACACCAGGACTTAAGACAAATGGGACTGATGTCATCTTGA
721 GCTCTTCAATTTATTTGACTGTGATTTATTTGGAGTGGAGGCATTGTTTTAAGAAAAAC
781 ATGTCATGTAGGTTGTCTAAAAATAAAATGCATTTAAACTCATTGAGAGAAAAAAA

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