

Nucleotide sequence of a human cDNA encoding a *ras*-related protein (*rap1B*)

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We have previously characterized two human *ras*-related genes *rap1* and *rap2* (1). Using the *rap1* clone as probe we isolated and sequenced a new *rap* cDNA encoding the 184aa *rap1B* protein (MW 20.8 kd). The *rap1B* protein is 95% identical to *rap1* and shares several properties with the *ras* protein suggesting that it could bind GTP/GDP and have a membrane location. As for *rap1*, the structural characteristics of *rap1B* (same effector domain as the *ras* protein and a threonine as 61st residue) suggest that the *rap* and *ras* proteins might interact on the same effector.

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attcccagcgtgagaggttcgcagagtactaggttttgacaagcttgcacatATGCGTGAG 60
                                     M R E
TATAAGCTAGTCGTTCTTGGCTCAGGAGGCGTTGAAAGTCTGCTTTGACTGTACAATTT 120
Y K L V V L G S G G V G K S A L T V Q F
GTTCAAGGAATTTTTGTAGAAAAATACGATCCTACGATAGAAGATTCTTATAGAAAGCAA 180
V Q G I F V E K Y D P T I E D S Y R K Q
GTTGAAGTAGATGCACAACAGTGTATGCTTGAATCTTGGATACTGCAGGAACGGAGCAA 240
V E V D A Q Q C M L E I L D T A G T E Q
TTTACAGCAATGAGGGATTTATACATGAAAAATGGACAAGGATTTGCATTAGTTTATTCC 300
F T A M R D L Y M K N G Q G F A L V Y S
ATCACAGCACAGTCCACATTTAACGATTTACAAGACCTGAGAGAACAGATTCTTCGAGTT 360
I T A Q S T F N D L Q D L R E Q I L R V
AAAGACACTGATGATGTTCCAATGATTCTTGTGGTAATAAGTGTGACTTGGAAAGATGAA 420
K D T D D V P M I L V G N K C D L E D E
AGAGTTGTAGGGAAGGAACAAGGTCAAAATCTAGCAAGACAATGGAACAACCTGTGCATTC 480
R V V G K E Q G Q N L A R Q W N N C A F
TTAGAATCTTCTGCAAAATCAAAAATAAATGTTAATGAGATCTTTTATGACCTAGTGCGG 540
L E S S A K S K I N V N E I F Y D L V R
CAAATTAACAGAAAAACTCCAGTGCCTGGGAAGGCTCGCAAAAAGTCATCATGTCAGCTG 600
Q I N R K T P V P G K A R K K S S C Q L
CTTtaactaaatgcattgtagctctgagccaggtctgaagaactgttgcccattcaa 660
L
cagtgccagcattccaactttgttaaaccatccaacatcttaaatggactttcctgtggt 720
ggtaccctttaagaggcggatgaaagctagctatatcagtttgacattctaactcattt 780
ccagtatgagaagagagattttacaattatataatagtcctagagtttgagcagctg 836

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REFERENCES

(1) V. Pizon, P. Chardin, I. Lerosey, B. Olofsson and A. Tavitian (1988) *Oncogene* (in press) August.