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**Nucleotide sequence of a rat cDNA: *RAB1B*, encoding a *RAB1*-YPT related protein**


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We recently isolated *rab1*, a rat cDNA homologous to the YPT1 gene of Yeast (1). We report here the characterization of a second mammalian homolog of YPT1: *rab1B* isolated from a rat brain library by the use of a Yeast SEC4 probe (2). *Rab1A* and *rab1B* open reading frames share 78% nucleotide sequence identity. Differences are distributed throughout the length of the two cDNAs indicating that they each derive from two different genes. *Rab1B* encodes a 202 aa protein (MW 22.1 kd) that shares 92%, 66% and 46% aa identity with the *rab1A*, YPT-1 and SEC4 proteins respectively.

gaattcggggggccaccgctgccgcc

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ATG AAC CCC GAA TAT GAC TAC CTG TTT AAG CTG CTT TTG ATT GGT GAC TCG GGC GTG
M  N  P  E  Y  D  Y  L  F  K  L  L  L  I  G  D  S  G  V
GGC AAG TCA TGC CTG CTT CTG CGG TTT GCT GAT GAC ACG TAC ACA GAG AGC TAC ATC
G  K  S  C  L  L  L  R  F  A  D  D  T  Y  T  E  S  Y  I
AGC ACC ATT GGG GTG GAC TTC AAG ATT CGA ACC ATT GAA CTG GAT GGC AAA ACC ATC
S  T  I  G  V  D  F  K  I  R  T  I  E  L  D  G  K  T  I
AAA CTA CAG ATT TGG GAC ACA GCT GGT CAG GAA CGG TTC AGG ACA GTC ACT TCC AGC
K  L  Q  I  W  D  T  A  G  Q  E  R  F  R  T  V  T  S  S
TAC TAT CGG GGT GCT CAT GGC ATC ATT GTG GTG TAT GAC GTC ACT GAC CAG GAA TCC
Y  Y  R  G  G  A  H  G  I  I  V  V  Y  D  V  T  D  Q  E  S
TAC GCT AAT GTG AAA CAG TGG CTG CAG GAA ATA GAT CGC TAC GCC AGT GAG AAT GTC
Y  A  N  V  K  Q  W  L  Q  E  I  D  R  Y  A  S  E  N  V
AAT AAA CTG CTG GTA GGC AAC AAG AGT GAC CTC ACC ACC AAG AAG GTC GTG GAC AAT
N  K  L  L  V  G  N  K  S  D  L  T  T  K  K  V  V  D  N
ACC ACA GCC AAG GAA TTT GCA GAC TCT CTG GGT GTC CCC TTC CTG GAG ACA AGT GCC
T  T  A  K  E  F  A  D  S  L  G  V  P  F  L  E  T  S  A
AAG AAT GCC ACC AAT GTT GAA CAG GCA TTC ATG ACA ATG GCT GCA GAG ATC AAA AAA
K  N  A  T  N  V  E  Q  A  F  M  T  M  A  A  E  I  K  K
CGG ATG GGG CCA GGA GCA GCA TCT GGG GGT GAA CGG CCC AAC CTG AAG ATC GAC AGC
R  M  G  P  G  A  A  S  G  G  E  R  P  N  L  K  I  D  S
ACT CCT GTG AAA TCT GCT AGT GGT GGC TGC TGC TAG ggggggggactcttggggaggggcaattctt
T  P  V  K  S  A  S  G  G  C  C  *
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**REFERENCES**

- (1) N. Touchot, P. Chardin and A. Tavitian. 1987 Proc. Natl. Acad. Sci. USA, **84** 8210-8214.  
(2) A. Salminen and P. Novick. 1987 Cell **49** 527-538.