

**The nucleotide sequence of human transition protein 1 cDNA**

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We screened a human testis cDNA library with an oligonucleotide of 81 mer prepared according to a part of the published nucleotide sequence of the rat transition protein TP 1(1). We have isolated a cDNA clone with the length of 441 bp containing the coding region of 162 bp for human transition protein 1. There is about 84% homology in the coding region of the sequence compared to rat. The insert contains the full 3'-noncoding region with 215 bp and the polyadenylation-signal 186 bp after the coding region. The 5'-noncoding region has a length of 58 bp. The human cDNA-clone encodes a polypeptide of 54 amino acids of which 7 are different to that of rat. These amino acids are underlined. Human transition protein 1 lacks cysteine, glutamine, glutamic acid, isoleucine, phenylalanine, and tryptophane.

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5'   AGCAAGAGCCGATCTCCTCACAAAGGGAGTCAAGAGAGGTGGCAGCAAAAGAAAATACC
***   -50   -40   -30   -20   -10
ATG TCG ACC AGC CGC AAA TTA AAG AGT CAT GGC ATG AGG AGG AGC AAG AGC CGA
1   S   T   S   R   K   L   K   S   H   G   M   R   R   S   K   S   R
TCT CCT CAC AAG GGA GTC AAG AGA GGT GGC AGC AAA AGA AAA TAC CGT AAG GGC
   S   P   H   K   G   V   K   R   G   G   S   K   R   K   Y   R   K   G
AAC CTG AAA AGT AGG AAA CGG GGC GAT GAC GCC AAI CGC AAT TAC CGC TCC CAC
   N   L   K   S   R   K   R   G   D   D   A   N   R   N   Y   R   S   H
TTG TGA GCCCCCAGCGGCTCTGCCCTGGTGCGCTTCACACAGCACCAAGCAGCAACAAGAACAGCAGAA
   L   168                               190                               210                               230
GGGGAAGCTGCCAAGGAGACCTGATGTTAGATCAAAGCCAGAGAGGAGCCTATGGAATGTGGATCAAATGCC
           250                               270                               290
AGTTGTGACGAAATGAGGAATGTATATGTTGGCTGTTTTCCCAACATCTCAATAAAAACCTTTGAAAGCAA
           310                               330                               350                               370
AAAAAAAAAA 3'
           383
    
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References

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