

Human cDNA sequence homologous to the mouse LLRep3 gene family

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LLRep3 is a highly conserved mouse repetitive DNA sequence family, members of which hybridise to a single abundant poly (A)⁺ RNA (1) of unknown function. A cDNA clone homologous to the mouse LLRep3 gene transcript (2) was isolated from a human colon cDNA library in λ gt11. The clone, designated λ15c, consists of 934 nucleotides which are 85% homologous to the mouse sequence, and contains the entire coding

sequence of 663 nucleotides. The predicted protein of 221 amino acids contains only a single amino acid change of serine (mouse) to threonine (human) at position 198 (boxed).

REFERENCES

1. Heller, D. *et al.* (1984) *J. Mol. Biol.* **173** 419–436.
2. Heller, D. *et al.* (1988) *Mol. Cell. Biol.* **8**, 2797–2807.

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GGCATCCAATTCTTTCCGACAAAACACCAAATGGCGGATGACGCCGGTGCAGCGGGGGG
GCCCCGAGGCTGGTGGCCCTGGGATGGGGAACCGCGTGGCTTCCGCGAGGTTTCGGCAG
TGGCATTTCGGGGCCGGGGTTCGGCGGTGGACGGGGCCGGGGCGAGGCGCGGAGCTCGCGA
GGCAAGGCCGAGGATAAGGAGTGGATGCCCGTCACCAAGTTGGGCGGCTTGGTCAAGGAC
ATGAAGATCAAGTCCCTGGAGGAGATCTATCTCTTCCCTGCCCATTAAGGAATCAGAG
1 M K I K S L E E I Y L F S L P I K E S E
ATCATGATTTCTTCTGGGGCCTCTCTCAAGGATGAGGTTTTGAAGATTATGCCAGTG
21 I I D F F L G A S L K D E V L K I M P V
CAGAAGCAGACCCGTGCCGGCCAGCGCACCAGGTTCAAGGCATTTGTTGCTATCGGGGAC
41 Q K Q T R A G Q R T R F K A F V A I G D
TACAATGGCCACGTCGGTCTGGGTGTTAAGTGTCCAAGGAGGTGGCCACCGCCATCCGT
61 Y N G H V G L G V K C S K E V A T A I R
GGGGCCATCATCTGGCCAAGCTCTCCATCGTCCCGTGCAGAGGCTACTGGGGGAC
81 G A I I L A K L S I V P V R R G Y W G N
AAGATCGGCAAGCCCCACACTGTCCCTGCAAGGTGACAGGCCGCTGCGGCTCTGTGCTG
101 K I G K P H T V P C K V T G R C G S V L
GTACGCCCTCATCCCTGCACCCAGGGGCACTGGCATCGTCTCCGCACCTGTGCCTAAGAAG
121 V R L I P A P R G T G I V S A P V P K K
CTGCTCATGATGGCTGGTATCGATGACTGCTACACCTCAGCCCGGGGCTGCACTGCCACC
141 L L M M A G I D D C Y T S A R G C T A T
CTGGCAACTTCGCCAAGGCCACCTTTGATGCCATTTCTAAGACCTACAGCTACCTGACC
161 L G N F A K A T F D A I S K T Y S Y L T
CCCGACCTCTGGAAGGAGACTGTATTACCAAGTCTCCCTATCAGGAGTTCACTGACCAC
181 P D L W K E T V F T K S P Y Q E F T D H
CTCGTCAAGACCCACACAGAGTCTCCGTGCAGCGGACTCAGGCTCCAGCTGTGGCTACA
201 L V K T H T R V S V Q R T Q A P A V A T
ACATAGGGTTTTTATACAAGAAAAATAAAGTGAA
221 T *
    
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Figure 1. Nucleotide sequence and numbered translation of human LLRep3. Polyadenylation signal is underlined.

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