

## Nucleotide sequence of the cynomolgus monkey apolipoprotein E cDNA

K.R.Marotti, B.E.Whitted, C.K.Castle, H.G.Polites and G.W.Melchior

The Upjohn Company, Kalamazoo, MI 49007, USA  
Submitted December 8, 1988

EMBL accession no. X13887

The complete nucleotide sequence of the cynomolgus monkey apolipoprotein E and the deduced amino acid sequence have been determined. The nucleotide sequence is 1178 nucleotides in length and has a single open reading frame which encodes a protein of 317 amino acids. The cynomolgus apolipoprotein E nucleotide and the deduced amino acid sequence are quite similar to that reported for human (1,2) with approximately 93% homology.

CTACTCAGCCCCAGCGAGGTGAAGGACGTCCTTCCCCAGGAGCCGACTGCCAAGGCGAGCTTGCCAATCACAGGCAGGA  
 AGATGAAGGTTCTGTGGGCTGCGTTGCTGGTCACATTCCTGGCAGGATGCCAGGCCAAGGTGGAGCAACCGTGGAGCCA  
 M K V L W A A L L V T F L A G C Q A K V E Q P V E P  
 GAGACGGAACCCGAGCTTCGCCAGCAGGCTGAGGGCCAGAGCGCCAGCCCTGGGAGCTGGCACTGGGTGCGTTTGGGA  
 E T E P E L R Q Q A E G Q S G Q P W E L A L G R F W D  
 TTACCTGCGCTGGGTGCAGACACTGTCTGAGCAGGTGCAGGAGGAGCTGCTCAGCCCCAGGTACCCAGGAAGTACGACGA  
 Y L R W V Q T L S E Q V Q E E L L S P Q V T Q E L T  
 CGCTGATGGACGAGACCATGAAGGAGTTGAAGGCCACAAATCGAACTGGAGGAACAGCTGAGCCCGGTGGCGGAGGAG  
 T L M D E T M K E L K A Y K S E L E E Q L S P V A E E  
 ACGCGGGCACGGCTGTCCAAGGAGCTGCAGGCGGCGCAGGCCCGGCTGGGTGCCGACATGGAGGACGTCGCGACCGCCCT  
 T R A R L S K E L Q A A Q A R L G A D M E D V R S R L  
 GGTGCGATACCGCAGCGAGGTGCAGGCCATGCTGGGCCAGAGTACCGAGGAGCTGCGGGCGCGCCTCGCCTCCACCTCG  
 V Q Y R S E V Q A M L G Q S T E E L R A R L A S H L  
 GCAAGCTGCGCAAGCGGCTCCTCCGCGATGCTGATGACCTGCAGAAGCGCCTGGCAGTGTATCAGCCGGGGCCCGCGAG  
 R K L R K R L L R D A D D L Q K R L A V Y Q A G A R E  
 GGCGCCGAGCGGGGTGAGCCCATCCGCGAGCGCCTGGGACCCCTGGTGGAGCAGGGCCCGTGGCGGCCCGCCACTGT  
 G A E R G V S A I R E R L G P L V E Q G R V R A A T V  
 GGGCTCCCTGGCCAGCCAGCCGCTTCAGGAGCGGGCCAGGCCTTGGGTGAGCGGCTTCGCGCACGGATGGAGGAGATGG  
 G S L A S Q P L Q E R A Q A L G E R L R A R M E E M  
 GCAGCCGGACCCCGCAGCCGCTGGACGAGGTGAAGGAGCAGGTGGCGGAGGTGCGCGCCAAGCTGGAGGAACAGGCCAG  
 G S R T R D R L D E V K E Q V A E V R A K L E E Q A Q  
 CAGATAAGCCTGCAGGCCGAGGCTTCCAGGCCCGCCTCAAGAGCTGGTTCGAGCCCTGGTGGAAAGATATGCAGCGCCA  
 Q I S L Q A E A F Q A R L K S W F E P L V E D M Q R Q  
 GTGGCTGGGCTGGTGGAGAAGGTGCAGGCTGCCGTGGGCGCCAGCACCGCCCTGTGCCATCGACAATCACTGAACGC  
 W A G L V E K V Q A A V G A S T A P V P I D N H  
 CCAGGCCTACAGCCATGCGACCCGACTCCACCCATGCCTCCTCTCCGCTCAGCCTGCAGCGGGAGACCTGTCCCCG  
 CCCAGCCGCTCCAGGGGTGGGCCCTAGTTTAATAAAGATTGCCAAGTTTCACCG

## REFERENCES

1. McLean, J. *et al.* (1984) *J. Biol. Chem.* **259**, 6498-6504.
2. Zannis, V. *et al.* (1984) *J. Biol. Chem.* **259**, 5495-5499.