APOA4 cDNA Clone – Apolipoprotein A-IV (Human)

PRODUCT OVERVIEW

Product Name	APOA4, cDNA Clone
Full Product Name	APOA4 cDNA Clone
Product Gene Name	APOA4 cdna clone
Sequence	atgttcctga aggccgtggt cctgaccctg gccctggtgg ctgtcgccgg agccagggct gaggtcagtg ctgaccaggt ggccacagtg atgtgggact acttcagcca gctgagcaac aatgccaagg aggccgtgga acatctccag aaatctgaac tcacccagca actcaatgcc ctcttccagg acaaacttgg agaagtgaac acttacgcag gtgacctgca gaagaagctg gtgccctttg ccaccgagct gcatgaacgc ctggccaagg actcggagaa actgaaggag gagattggga aggagctgga ggagctgagg gcccggctgc tgccccatgc caatgaggtg agccagaaga tcggggacaa cctgcgagag cttcagcagc gcctggagcc ctacgcggac cagctgcgca cccaggtcaa cacgcaggcc gagcagctgc ggcgccagct gacccctac gcacagcgca tggagagagt gctgcgggag aacgccgaca gcctgcaggc ctcgctgagg ccccacgccg acgagctcaa ggccaagatc gaccagaacg tggaggagct caagggacgc cttacgccct acgctgacga attcaaagtc aagattgacc agaccgtgga ggagctgcgc cgcagcctgg ctccctatgc tcaggacacg caggagaagc tcaaccacca gcttgagggc ctgaccttcc agatgaagaa gaacgccgag gagctcaagg ccaggatctc ggccagtgcc gaggagctgc ggcagaggct ggcgcccttg gccgaggacg tgcgtggcaa cctgaggggc aacaccgagg ggctgcagaa gtcactggca gagctgggtg ggcacctgga ccagcaggtg gaggagttcc gacgccgggt ggagccctac ggggaaaact tcaacaaagc cctggtgcag cagatggaac agctcaggca gaaactgggc ccccatgcgg gggacgtgga aggccacttg agcttcctgg agaaggacct gagggacaag gtcaactcct tcttcagcac cttcaaggag aaagagagcc aggacaagac tctctccctc cctgagctgg agcaacagca ggaacagcag caggagcagc agcaggagca ggtgcagatg ctggccccctt tggagagctg a
Molecular Weight	45,399 Da
OMIM	107690
Vector	Please Inquire
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for APOA4 cdna clone	MBS1267404 is a cDNA clone targeting APOA4.
Other Notes	Small volumes of APOA4 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for APOA4. It may not necessarily be applicable to this product.

NCBI GI #	109731751
NCBI GeneID	337
NCBI Accession #	BC113596
UniProt Secondary Accession #	Q14CW8; Q6Q787; A8MSL6
UniProt Related Accession #	P06727
NCBI Official Full Name	Homo sapiens apolipoprotein A-IV, mRNA
NCBI Official Synonym Full Names	apolipoprotein A4
NCBI Official Symbol	APOA4
UniProt Protein Name	Apolipoprotein A-IV
UniProt Synonym Protein Names	Apolipoprotein A4

Protein Family	Apolipoprotein
UniProt Gene Name	APOA4
UniProt Synonym Gene Names	Apo-AIV; ApoA-IV
UniProt Entry Name	APOA4_HUMAN
NCBI Protein Information	apolipoprotein A-IV
NCBI Summary for APOA4	Apoliprotein (apo) A-IV gene contains 3 exons separated by two introns. A sequence polymorphism has been identified in the 3'UTR of the third exon. The primary translation product is a 396-residue preprotein which after proteolytic processing is secreted its primary site of synthesis, the intestine, in association with chylomicron particles. Although its precise function is not known, apo A-IV is a potent activator of lecithin-cholesterol acyltransferase in vitro. [provided by RefSeq, Jul 2008]
UniProt Comments for APOA4	APOA4: May have a role in chylomicrons and VLDL secretion and catabolism. Required for efficient activation of lipoprotein lipase by ApoC-II; potent activator of LCAT. Apoa-IV is a major component of HDL and chylomicrons. Synthesized primarily in the intestine and secreted in plasma. Belongs to the apolipoprotein A1/A4/E family. Protein type: Secreted; Lipid-binding; Secreted, signal peptide; Endoplasmic reticulum; Cell adhesion Chromosomal Location of Human Ortholog: 11q23 Cellular Component: cell surface; chylomicron; cytosol; early endosome; endoplasmic reticulum lumen; extracellular region; extracellular space Molecular Function: antioxidant activity; cholesterol binding; cholesterol transporter activity; copper ion binding; lipid binding; lipid transporter activity; phosphatidylcholine binding; protein binding; protein homodimerization activity Biological Process: cellular protein metabolic process; cholesterol biosynthetic process; cholesterol efflux; cholesterol homeostasis; cholesterol metabolic process; hydrogen peroxide catabolic process; innate immune response in mucosa; leukocyte adhesion; lipid homeostasis; lipid transport; lipoprotein biosynthetic process; lipoprotein metabolic process; multicellular organismal lipid catabolic process; neurite regeneration; phosphatidylcholine metabolic process; phospholipid efflux; positive regulation of fatty acid biosynthetic process; positive regulation of lipoprotein lipase activity; protein-lipid complex assembly; regulation of cholesterol absorption; regulation of cholesterol transport; removal of superoxide radicals; response to lipid hydroperoxide; retinoid metabolic process; reverse cholesterol transport
Research Articles on APOA4	**1.** Low levels of APOA1, APOC3, and APOA4 are associated with risk of Alzheimer disease.
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