

Product datasheet for MR206177

Apoa4 (NM_007468) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apoa4 (NM_007468) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Apoa4
Synonyms:	Apoa-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206177 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTTCTGAAGGCTGCGGTGCTGACCCTGGCCCTGGTGGCCATCACCGGCACCCGGGCTGAGGTCACTT
CGGACCAGGTGGCCAATGTGGTGTGGGATTACTTTACCCAGCTAAGCAACAATGCCAAGGAGGCTGTAGA
ACAGTTTCAGAAGACGGATGTCCTCAGCAGCTCAGTACCCTCTCCAGGACAACTTGGGGATGCTAGT
ACGTATGCTGATGGGGTGCACAACAAGCTGGTGCCTTTGTCGTACAGCTGAGTGGGCATCTAGCCAGG
AACTGAGAGGGTGAAGGAAGAGATCAAGAAGGAGCTGGAGGACCTACGTGACCGCATGATGCCCATGC
CAACAAAGTAACCCAGACGTTCCGGGAGAACATGCAGAAGTTGCAGGAGCACCTGAAGCCCTATGCCGTG
GACCTGCAAGATCAGATCAACACACAGACCCAGGAAATGAAGCTCCAGCTGACCCCATACATCCAGCGCA
TGCAGACCACGATCAAGGAGAATGTGGACAACCTGCACACCTCGATGATGCCCTTGCCACCAACTTAAA
GGACAAGTTTAAACAGGAATATGGAAGAGCTCAAGGGGCACCTAACCCCGTGGCAACGAGCTGAAGGCC
ACGATCGACCAGAACCTGGAGGATCTGCGCCGACGCTGGCCCTCTGACGGTGGGCGTGCAGGAGAAAC
TCAACCATCAGATGGAGGGCCTGGCCTTCCAGATGAAGAAGAACGCGGAGGAGCTCCAGACCAAGGTCTC
CGCAAAAATCGACCAGCTGCAGAAGAATCTGGCCCGCTGGTGGAAAGACGTGCAGAGCAAGTGAAGGGC
AACACGGAAGGGCTGCAGAAGTCTTGGAAAGACCTGAACAGGCAGCTGGAGCAGCTGGAGGAGTTCC
GACGCACTGTGGAGCCCATGGGAGAGATGTTCAACAAGGCTCTGGTGCAGCAGCTGGAACAGTTTCAGACA
GCAGCTGGGTCCCAATTCGGGGGAGGTGAAAAGCCACTTGAGCTTCTGGAGAAGAGCCTGAGGGAGAAG
GTCAACTCCTTTATGAGCACCTGGAAAAAAGGGGAGCCAGACCAGCCTCAAGCCCTCCCCCTCCCGG
AGCAGGCCAGGAGCAGGCTCAGGAGCAGGCTCAGGAGCAGGTGCAGCCAAACCTCTGGAGAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR206177 protein sequence
 Red=Cloning site Green=Tags(s)

MFLKAAVLTALVAITGTRAEVTSQVANVVWDYFTQLSNNAKEAVEQFQKTDVTQQLSTLFDKLGDAS
 TYADGVHNKLVFVQVLSGHLAQETERVKKEIKKELEDLRDRMMPHANKVTQTFGENMQKLQEHLPYAV
 DLQDQINTQTQEMKQLQTPYIQRMQTTIKENVNHLHTSMPLATNLKDKFNRNMEELKGHLPANELKA
 TIDQNLLEDLRRSLAPLTVGVQEKLNHQMEGLAFQMKKNAEELQTKVSAKIDQLQKNLAPLVEDVQSKVKG
 NTEGLQKSLLEDLNRQLEQQVEEFRRTVPEPMGEMFNKALVQQLEQFRQQLGPNSGEVESHLSFLEKSLREK
 VNSFMSTLEKKGSPDQPQALPLPEQAQEAQEAQEQVQPKPLES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_007468

ORF Size: 1188 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_007468.2](#), [NP_031494.2](#)

RefSeq Size: 1666 bp

RefSeq ORF: 1188 bp

Locus ID: 11808

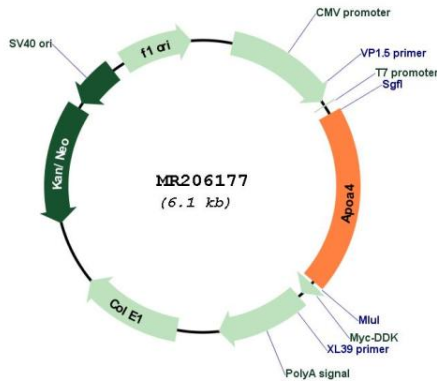
UniProt ID: [P06728](#)

Cytogenetics: 9 25.36 cM

MW: 45 kDa

Gene Summary: 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.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206177