

Product datasheet for **RC237592**

Apolipoprotein E (APOE) (NM_001302688) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Apolipoprotein E (APOE) (NM_001302688) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: APOE
Synonyms: AD2; APO-E; ApoE4; LDLCQ5; LPG
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC237592 representing NM_001302688
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGCTCAGGGGCTCTAGAAAGAGCTGGGACCCTGGGAACCCCTGGCCTCCAGACTGGCCAATCACAG
GCAGGAAGATGAAGTTCTGTGGGCTGCGTTGCTGGTCACATTCCTGGCAGGATGCCAGGCCAAGGTGGA
GCAAGCGGTGGAGACAGAGCCGAGCCGAGCTGCGCCAGCAGACCGAGTGGCAGAGCGCCAGCGCTGG
GAACTGGCACTGGGTCGCTTTTGGGATTACCTGCGCTGGGTGCAGACACTGTCTGAGCAGGTGCAGGAGG
AGCTGCTCAGCTCCCAGGTCACCCAGGAACTGAGGGCGCTGATGGACGAGACCATGAAGGAGTTGAAGGC
CTACAAATCGGAACTGGAGGAACAACCTGACCCCGTGGCGGAGGAGACGCGGGCACGGCTGTCCAAGGAG
CTGCAGGCGGGCAGGCCCGGCTGGGCGCGGACATGGAGGACGTGTGCGGCCGCTGGTGCAGTACCGCG
GCGAGGTGCAGGCCATGCTCGGCCAGAGCACCGAGGAGCTGCGGGTGCAGCTCGCTCCCACCTGCGCAA
GCTGCGTAAGCGGCTCCTCCGCGATGCCGATGACCTGCAGAAGCGCCTGGCAGTGTACCAGGCCGGGGCC
CGCGAGGGCGCCGAGCGCGGCTCAGCGCCATCCGCGAGCGCTGGGGCCCTGGTGAACAGGGCCGCG
TGCGGGCCGCACTGTGGGCTCCCTGGCCGGCCAGCCGCTACAGGAGCGGGCCAGGCCTGGGGCGAGCG
GCTGCGCGCGCGATGGAGGAGATGGGCAGCCGACCCGCGACCCGCTGGACGAGGTGAAGGAGCAGGTG
GCGGAGGTGCGCGCAAGCTGGAGGAGCAGGCCAGCAGATACGCCTGCAGGCCGAGGCCTTCCAGGCC
GCCTCAAGAGCTGGTTCGAGCCCCTGGTGAAGACATGCAGCGCCAGTGGGCCGGCTGGTGGAGAAGGT
GCAGGCTGCCGTGGGCACCGCGCCGCTGTGCCAGCGACAATCAC

ACGGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237592 representing NM_001302688
 Red=Cloning site Green=Tags(s)

MSSGASRKSWDPGNPWPPDWPITGRKMKVLWAALLVTFLAGCQAKVEQAVETEPEPELRRQQTWQSGQRW
 ELALGRFDYLRWVQTLSEVQVEELLSSQVTQELRALMDETMKELKAYKSELEEQLTPVAEETRRLSKE
 LQAAQARLGADMEDVCGRLVQYRGEVQAMLGQSTEELRVRLASHLRKLRKRLRDADDLQKRLAVYQAGA
 REGAERGLSAIRERLGPLVEQGRVRAATVGLAGQPLQERAQAWGERLRARMEEMGSRTRDRDLDEVKEQV
 AEVRAKLEEQAQQIRLQAEAFQARLKSWEPLVEDMQRQWAGLVEKVQAAVGTSAAPVPSDNH

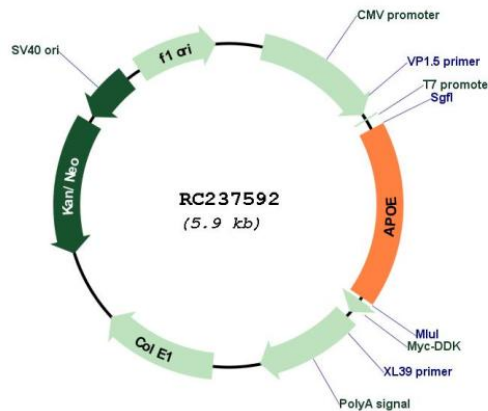
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001302688

ORF Size: 1029 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:	<ol style="list-style-type: none">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_001302688.2
RefSeq Size:	1316 bp
RefSeq ORF:	1032 bp
Locus ID:	348
UniProt ID:	P02649
Cytogenetics:	19q13.32
Protein Families:	Adult stem cells, Druggable Genome, Secreted Protein, Stem cell - Pluripotency
Protein Pathways:	Alzheimer's disease
MW:	39.5 kDa
Gene Summary:	The protein encoded by this gene is a major apoprotein of the chylomicron. It binds to a specific liver and peripheral cell receptor, and is essential for the normal catabolism of triglyceride-rich lipoprotein constituents. This gene maps to chromosome 19 in a cluster with the related apolipoprotein C1 and C2 genes. Mutations in this gene result in familial dysbetalipoproteinemia, or type III hyperlipoproteinemia (HLP III), in which increased plasma cholesterol and triglycerides are the consequence of impaired clearance of chylomicron and VLDL remnants. [provided by RefSeq, Jun 2016]