

Product datasheet for **RG237592**

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:	TurboGFP
Symbol:	APOE
Synonyms:	AD2; APO-E; ApoE4; LDLCQ5; LPG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237592 representing NM_001302688. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
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GAGCAAGCGGTGGAGACAGAGCCGGAGCCCGAGCTGCCAGCAGACCGAGTGGCAGAGCGGCCAGCGC
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GAGGAGCTGCTCAGCTCCAGGTCACCCAGGAAGTGGGGCGCTGATGGACGAGACCATGAAGGAGTTG
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CTGCGCAAGCTGCGTAAGCGGCTCCTCCGCGATGCCGATGACCTGCAGAAGCGCCTGGCAGTGTACCAG
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GCCTTCCAGGCCCGCCTCAAGAGCTGGTTCGAGCCCTGGTGAAGACATGCAGCGCCAGTGGGCCGG
CTGGTGGAGAAGGTGCAGGCTGCCGTGGCACCAGCGCCGCCCTGTGCCAGCGACAATCAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237592
 Blue=ORF Red=Cloning site Green=Tag(s)

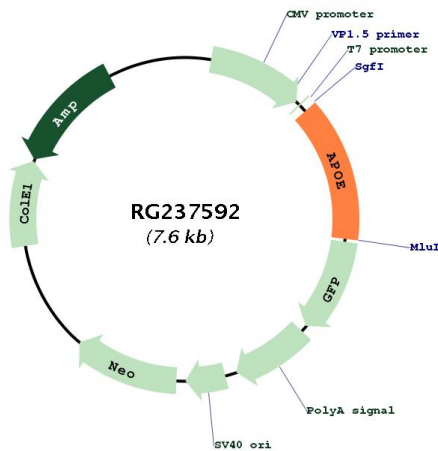
MSSGASRKSWDPGNPWPPDWPITGRKMKVLWAALLVTFLAGCQAKVEQAVETEPEPELRRQQTWQSGQR
 WELALGRFWDYLRWVQTLSEVQEELLSSQVTQELRALMDETMKELKAYKSELEEQLTPVAETRARLS
 KELQAAQARLGADMEDVCGRLVQYRGEVQAMLGQSTEEELRVLASHLRKLRKLLRDADDLQKRLAVYQ
 AGAREGAERGLSAIRERLGPLVEQGRVRAATVGSLSAGQPLQERAQAWGERLRARMEEMGSRTRDRLDEV
 KEQVAEVRAKLEEQAQQIRLQAEAFQARLKSWFEPLEVEDMQRQWAGLVEKVQAAVGTSAAPVPSDNH
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

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).
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]