

Product datasheet for RN211706

Apob (NM_019287) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apob (NM_019287) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Apob
Synonyms:	Aa1064; Ac1-060; ApoB-48; Apo B-100; ApoB-100
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN211706 representing NM_019287 Red=Cloning site Blue=ORF Orange=Stop codon

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GCCGCGATCGCC

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Restriction Sites:

Sgfl-Mlul

ACCN:

NM_019287

Insert Size:

13521 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_019287.2](#), [NP_062160.2](#)

RefSeq Size:

14091 bp

RefSeq ORF: 13521 bp

Locus ID: 54225

UniProt ID: [Q7TMA5](#)

Cytogenetics: 6q14

Gene Summary: This gene product is the main apolipoprotein of chylomicrons and low density lipoproteins. It occurs in plasma as two main isoforms, apoB-L and apoB-H. Unlike the apoB-48 and apoB-100 structural equivalents in human, which are synthesized exclusively in the gut and liver, respectively, the rat apoBL isoform is also found in rat liver. The intestinal and the hepatic forms of apoB are encoded by a single gene from a single, very long mRNA. The two isoforms share a common N-terminal sequence. The shorter apoB-L protein is produced after RNA editing of the apoB-H transcript at residue 2180 (CAA->UAA), resulting in the creation of a stop codon, and early translation termination. [provided by RefSeq, Jul 2008]