

Product datasheet for RR211706

Apob (NM_019287) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Apob (NM_019287) Rat Tagged ORF Clone
Tag: Myc-DDK
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
ORF Nucleotide Sequence: >RR211706 representing NM_019287
 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>RR211706 representing NM_019287
 Red=Cloning site Green=Tags(s)

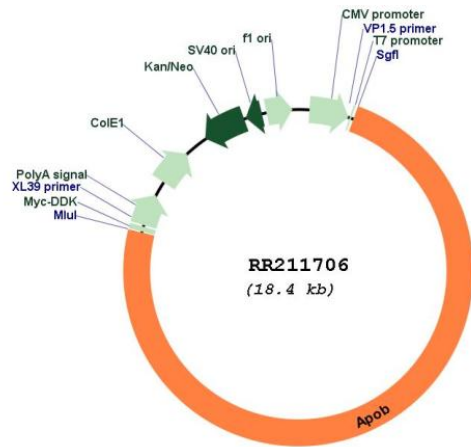
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 SVIIEVRKYFVMNLIEDFKVTEKINTFRVIVRELIEKYEVDQRQIQLMDKSIELAHRYSLSEPLQKLSNV
 LQQIEIKDYDKLVGFIIDTVVEWIKAVSFKNIEELNRLIDMSVKKLKAFDYHQFVDTKNSKIREMTQRI
 NAEIQALELPQKTEALKLWVDFKTTVSNLEKLDKTKVTVVVDWLQDGLAQIKAQFQDALEDVRDRIYQ
 MDIQGELERCLSLVSQVYSTVVTYISDWWTLTAKNITDFAEQYSTQKWAESVKALVEQGFIVPEIQTFGLG
 TMPAFEVSLHALQEANFQTPDFIVPLTDLRIPSIWINFKMLKNVKIPLRFSTPEFTLLNTRFRVRSFTIDL
 LEIKAKIIRTIDQMLSSELQWPLPEVYLRLDLEMVNISLARLSLPDFHVPEITIFEFTIPNVNLKDLQVPD
 LHIPEFQLPHLSCCTEIPAFGKLSVLIQSPFLILDASANIQNITTSNKAEIVASVTARGESKFEALN
 FDFQAQAQFLELNANPLVLKESVNFSSKHVRMEHEGKILVSGKALEGKSDTVARLHTEKNTVEFNNGIVV
 KINNQFTLDSQTKYFHKLSVPRDFSSKASLNNEIKTLLLEAGHMAWTSSTGSGSWNACPNFSDGDIHSSK
 ISFIVDGPISAFGLSNNINGKHLRVVQKLTSESGFLNYSRFEVESQHVGSILTAEGRALLGDAKA
 EMTGEHNANLNGKVIIGTLKNSLFFSAQPFETASTNNEGNLKVSFPLKLTGKIDFLNNYALFLSPHAQQA
 SWQLSTRFNQYKYNQNFSAINNEHNMEASIVMNGDANLDFLNIPLTIPEINLPYTRFTTPLLKDFSIWEE
 TGLKEFLKTTKQSFDSLKAQYKKNRDKHSVVIPLKMFYEFMLNNVNSWDRKFEKVRDNALHFLTASYNE
 TKIKFDKYKTENSLNQPSTFQNRGHTIPVLNIEVSPFAVETLASSHVIPKAIRTPSVTIPGNIIVPSY
 RLVLPQLPVFHIPRTLKFKSLPDFKLLSTIDNIYIPAMGNFTYDFSFKSSVITLNTNAGLYNQSDLVA
 RFLSSSSVFTDALQYKLEGTSRMLMRKKVLKATAVSLTNKFLKGSHTDSTISLTKKNMEASVKTANLHAP
 IFTMNFQELNGNTKSKPTVSSSIELNDFNSSKLHSAAGGVVHKFSLESLSYLSIESFTKGNIKGSF
 LSQEYSGSVANEANVYLSKGTSSVRLQGASNFAGIWNFEVGENFAGEATLRRITYGTWEHNMNHLQVF
 SYFDTKKGKQTCRATLELSPWTMSTLLQVHVSQPSPLFDLHHFDQEVILKASTKNQKVSWKSEVQVESQVL
 QHNAHFSNDQEEVRLDIAGSLEGQLWDLNENFLPAFGKSLRELLQIDGKRQYLQASTSLHYTKNPNGYLL
 SLPVQELTDRFIIPGLKLNDFSGIKIYKLLSTSPFALNLTMLPKVKFPGVDLLTQYSKPEGSSVPTFETT
 IPEIQLTVSQFTLPKSFVGNVFDLNKLTNLIAVDLPSITLPEQTIEIPSLEFSVPAGIFIPFFGELT
 AHVGMASPLYNVTWSTGWKNKADHVETFLDSTCSSTLQFLEYALKVVGTHRIENDKFIYKIKGTLQHCDF
 NVKYNEDGIFEGLDLEGEAHLDTSPALTDHFLHYKEDKTSVSASAASPAIGTVSLDASTDDQSVRLNV
 YFRPQSPDNKLSIFKMEWRDKESDGETYIKINWEEEAARLLDSLKSNVPKASEAVYDYVKKYHLGHAS
 SELRKSLQNDAEHAIRMVDEMNVAQRVTRDITYQSLYKMLAQESQSISPEKLLKMMVLGSLVRITQKYHMA
 VTWLMDSVVIHFLKFNRVQFPGNAGTYTVDELTYIAMRETKLLSQLFNGLGHLFSYVQDQVEKSRVINDI
 TFKCPFSPCKLKDVLIFREDLNILSNLQQDINFITLILSDFQSFLERLLDIEEKIECLKNNESTCV
 PDHINMFKTHIPFAFKSLRENIYSVFSEFNDFVQSILQEGSYKLQQVHYMKAFREEYFDPSSVVGWTVK
 YYEIEEKMVDLIKTLAPLRDFYSEYSVTAADFASKMSTQVEQFVSRDIREYLSMLADINGKGREKVAEL
 SIVVKERIKSWSTAVAEITSDYLRQLHSLKLDQSDQLSGYIEKFAESTRLIDLISIQNYHMFLRYIAELL
 KKLQVATANNVSPYLRFQAQGELIITF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Plasmid Map:


ACCN: NM_019287

ORF Size: 13518 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.

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

RefSeq Size: 14091 bp

RefSeq ORF: 13521 bp

Locus ID: 54225

UniProt ID: [Q7TMA5](#)

Cytogenetics: 6q14

MW: 509.7 kDa

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]