

Product datasheet for **MG200207**

Apoc1 (NM_007469) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: Apoc1
Synonyms: apo-CI; Apo-CIB; apoC-I; ApoC-IB
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG200207 representing NM_007469
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAGGCTCTTCATCGCTCTTCTGTCTGATTGTGGTCGTAGCCATGACCTTGAAGGCCAGCCCCG
CCCAGGCGGCCCGGATTTGTCCGGAACATTGGAGAGCATACCGGATAAACTGAAGGAGTTTGGGAACAC
TTTGAAGACAAGGCCCGGCAGCCATTGAACATATCAAACAGAAGGAAATTTGACCAAGACCCGGGCC
TGTTCTCAGAGGCATTTGGCAAAGTGAAGGAGAAGTTGAAGACCACGTTCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200207 representing NM_007469
Red=Cloning site Green=Tags(s)

MRLFIALPVLIVVAMTLEGPAPAQAAPDLSGTLESIPDKLKEFGNTLEDKARAAIEHIKQKEILTKTRA
WFSEAFGKVKEKLKTTFS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:


ACCN: NM_007469

ORF Size: 264 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).

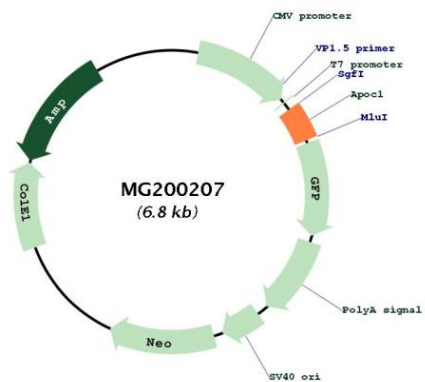
Reconstitution Method:

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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_007469.5
RefSeq Size:	464 bp
RefSeq ORF:	267 bp
Locus ID:	11812
UniProt ID:	P34928
Cytogenetics:	7 9.94 cM

Gene Summary:

This gene encodes a precursor plasma protein that is cleaved to yield a signal peptide and two alternatively processed mature peptides. The encoded protein, which is a component of chylomicrons, very low density lipoproteins and high density lipoproteins, transports lipids from the intestines to other locations in the body. This protein binds to free fatty acids preventing their uptake by cells. This protein is a cofactor for lecithin cholesterol acyltransferase, an enzyme that catalyzes the conversion of free cholesterol to cholesteryl esters. The encoded protein inhibits the activity of the cholesteryl ester transfer protein which promotes the exchange of neutral lipids between lipoproteins. In humans this gene is associated with risk of coronary artery disease and age-associated memory impairment. Mice lacking this gene demonstrate impaired memory. This gene is clustered with three other apolipoprotein genes on chromosome 7. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2013]

Product images:

Circular map for MG200207