

Product datasheet for **MR204777**

Apof (NM_133997) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apof (NM_133997) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Apof
Synonyms:	AI255964
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204777 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCGGACTGTATGGGTGCTCAGCTCCTGACATGCATAGCCTCCGACTCATCCTGATGTCAATCCAGC
 TGCTTTGCTATCTCCTGCTGTGCTGTGGATGCCACTTCACACGGAGAGGCAACCAGTGTCTCTACGGT
 GCTCCCTCCCTCGAAGTTGGGATACCAGATGCAGACCTCAGACAAGCCCTTGCTCTGCCAGATGCTGCTC
 CCCAAGTCCCTGCCTGGCTTCACTTACATGCCCTGTCTCCAAATTCCTGGTAGGCCTGGCTCTAAGGA
 ATGCTCTGGAGGCAGCTGGCTGCCAGGCTGAGGTCTGGGCTCTTCAGCTTCAGCTTTACCGATTAGGAGG
 TGTGGAGGCTACACAAGCCCTCATCCACCATCTCCAGGAGCTCCAGAAGAGTGGACACACAGACCGGAA
 GTGCTGTGGATGCCCTGTCTCTGCTCTGCAGCTCTTAGCCTGGGAGCAGCCAGGTCCAAAGAGGGCCA
 AACGTTTCGATTTCCAACACAGACTGCGACAATGATCAGGAACAGAGTGTCCAAATGTGGTTGACCTACT
 ACCAGCAGTAGGCACCTACTACAACCTAGGCACAGCTTTGTATTACGCCATTAAGAACTGCTCTGACAAG
 GCCAAGGAACGAGGTCGAGATGGGGCCATAGATCTGGTTATGATCTCTTGATGGCCATGGTAGGCGCT
 CAGGGGGCCAGCTGGTGGGTGATCACGGCTGCTCTTAAGCCAGCGATGAAGGTGGGGTTCAGCGGT
 GATCCAGTATTATTATGATGAGAAAGAGGTGACCACCCCTCAGCCAGAGGTGACCACCCATCAGCCAGAG
 ACCGAAAAGGATGCCACCACAGATATCGGTGTTGTGGAAGAAATAGCCATGTCTAATTTGTGTGAGAAG
 TTGAAAGTACAACCTCTAACTGGGAGTGGCCTTTATTAAGAAGTATGGTGTCTTGGCGTACAAGAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >MR204777 protein sequence
Red=Cloning site Green=Tags(s)

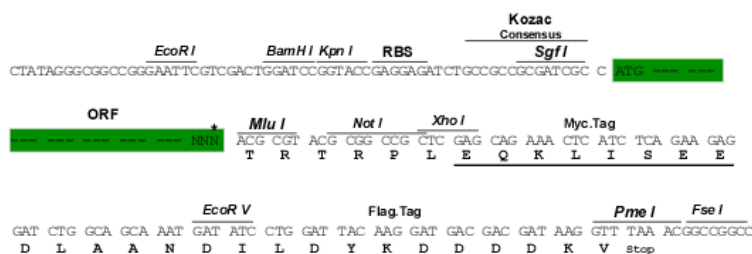
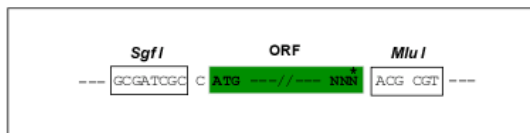
MAGLYGCSAPDMHSLRLILMSIQLLCYLLCPVDAISHGEATSVSTVLPSPSKLGYQMOTSDKPLSCQMLL
PKSLPGFTYMPVPYKFLVGLALRNALEAAGCQAEVWALQLQLYRLGGVEATQALIHHLQELQKSGHTDRE
VSDVALLSSALQLLAWEQPGPKRAKRSISNTDCDNDQEQSVNVVDDLIPAVGTYYNLGTALYYAIKNCSDK
AKGERDGAIDLGYDILMAMVGSAGGPAGAVITAALKPKAMKAGVQRLIQYYDEKEVTTTPQPEVTTHQPE
TKGDATTDIGVVEEIAMSNFVSEVSESTAGINWEPWLLKNYGVLAYKR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 133997

ORF Size: 978 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_133997.2](#), [NP_598758.1](#)

RefSeq Size: 1930 bp

RefSeq ORF: 981 bp

Locus ID: 103161

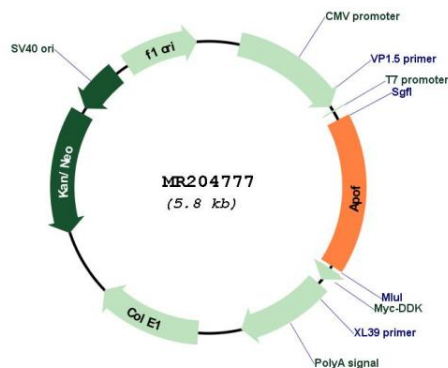
UniProt ID: [Q91V80](#)

Cytogenetics: 10 76.5 cM

MW: 35.4 kDa

Gene Summary: Minor apolipoprotein that associates with LDL. Inhibits cholesteryl ester transfer protein (CETP) activity and appears to be an important regulator of cholesterol transport. Also associates to a lesser degree with VLDL, Apo-AI and Apo-AII.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204777