

## Product datasheet for **MG204777**

### Apof (NM\_133997) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Apof (NM_133997) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Apof
Synonyms:	A1255964
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204777 representing NM_133997 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCGGACTGTATGGGTGCTCAGCTCCTGACATGCATAGCCTCCGACTCATCCTGATGTCAATCCAGC  
TGCTTTGCTATCTCCTGCTGTGCTCCTGTGGATGCCACTTCACACGGAGAGGCAACCAGTGTCTCTACGGT  
GCTCCCTCCCTCGAAGTTGGGATACCAGATGCAGACCTCAGACAAGCCCTGTCTGCCAGATGCTGCTC  
CCCAAGTCCCTGCCTGGCTTCACTTACATGCCCCCTGTCTCAAATTCCTGGTAGGCCTGGCTCTAAGGA  
ATGCTCTGGAGGCAGCTGGCTGCCAGGCTGAGGTCTGGGCTCTCAGCTTACCGATTAGGAGG  
TGTGGAGGCTACACAAGCCCTATCCACCATCTCCAGGAGCTCCAGAAGAGTGGACACACAGACCGGAA  
GTGCTGTGGATGCCCTGTCTCTGCTCTGCAGCTCTTAGCCTGGGAGCAGCCAGGTCCAAGAGGGCCA  
AACGTTTCGATTTCCAACACAGACTGCGACAATGATCAGGAACAGAGTGTCCACAATGTGGTTGACCTACT  
ACCAGCAGTAGGCACCTACTACAACCTAGGCACAGCTTTGTATTACGCCATTAAGAAGTGTCTGACAAG  
GCCAAGGAACGAGGTCGAGATGGGGCCATAGATCTGGTTATGATCTCTTGTGGCCATGGTAGGCGCGT  
CAGGGGGCCAGCTGGTGCCTGATCACGGCTGCTTAAAGCCAGCGATGAAGGCTGGGGTTCAGCGGCT  
GATCCAGTATTATTATGATGAGAAAGAGGTGACCACCCCTCAGCCAGAGGTGACCACCCATCAGCCAGAG  
ACCGAAAAGGATGCCACCACAGATATCGGTGTTGTGGAAGAAATAGCCATGTCTAATTTTGTGTCAGAAG  
TTGAAAGTACAACCTTCTAACTGGGAGTGGCCTTATTAAGAAGTATGGTGTCTTGGCGTACAAGAGA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204777 representing NM\_133997  
 Red=Cloning site Green=Tags(s)

MAGLYGCSAPDMHSLRLILMSIQLLCYLLLCPVDATSHGEATSVSTVLPPSKLGYQMQTSKPLSCQMLL  
 PKSLPGFTYMPVSKFLVGLALRNALEAAGCQAEVWALQLQLYRLGGVEATQALIHHLQELQKSGHTDRE  
 VSVDALSSALQLLAWEQPGPKRAKRISINTDCDNDQEQSVHNVVDLLPAVGTYYNLGTALYYAIKNCSDK  
 AKERGRDGAIDLGYDLLMAMV GASGGPAGAVITAALKPAMKAGVQR LIQY YYYDEKEVTTTPQPEVTT HQPE  
 TGKDATTDIGVVEEIAMSNFVSEVESTTSNWEWPLLKNYGVLAYKR

TRTRPLE - GFP Tag - V

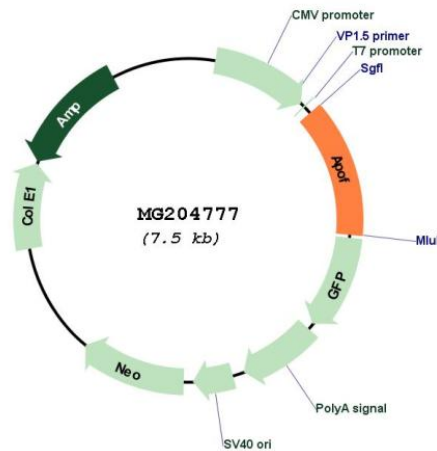
Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM\_133997

ORF Size: 978 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_133997.2</a> , <a href="#">NP_598758.1</a>
<b>RefSeq Size:</b>	1930 bp
<b>RefSeq ORF:</b>	981 bp
<b>Locus ID:</b>	103161
<b>UniProt ID:</b>	<a href="#">Q91V80</a>
<b>Cytogenetics:</b>	10 76.5 cM
<b>Gene Summary:</b>	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]