

## Product datasheet for MR205662

### Apoa5 (NM\_080434) Mouse Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Apoa5 (NM\_080434) Mouse Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: Apoa5  
 Synonyms: 1300007O05Rik; Apoav; RAP3  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 ORF Nucleotide Sequence: >MR205662 representing NM\_080434  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCTGCAGTCATCACTTGGGCCCTCGCCCTCCTCGCAGTGTTTCGAAGCACTCAGGCACGGAAGAGCC  
 TCTGGGACTACTTCAGCCAAAACAGTTGGAGCAAAGGCGTGATGGGCCAGCCACAGAAGCTGGCACAGGA  
 GAACCTGAAAGGCAGCTTCGAGCAAGACCTCTACAATATGAACAATTACCTAGAAAAGCTGGGACCCTTG  
 AGAGGGCCTGGGAAGGAGCCTCCTCTGCTGGCCCAGGACCCAGAAGGCATTTCGGAACAGCTGCAGCAGG  
 AGCTGGGGGAAGTGAGCTCGCGCCTGGAGCCCTACATGGCTGCGAAGCACCAGCAGGTAGGCTGGAACCT  
 GGAGGGCCTGAGGCAGCAGTTGAAACCCTACACGGCGGAGCTGATGGAGCAGGTGGGCCTGAGTGTGCAG  
 GAGCTGCAGGAGCAGCTGCGCGTGGTGGGAGAAGACACCAAGGCTCAGCTCCTGGGGGGCGTGGACGAGG  
 CGCTGAACCTGTGCAGGACATGCAGAGTCGAGTGCTGCACCATACCGACCGAGTCAAAGAGCTCTTCCA  
 CCCTTACGCAGAACGCTTGGTACTGGAATTGGGCACCACGTGCAGGAGCTGCACCGCAGTGTGCGTCTCT  
 CACGCAGCTGCCAGCCCCGCGGACTCAGTCGCTGCGTGCAGACTCTGTCCCACAACTCACACGTAAGG  
 CGAAGGACCTGCACACCAGCATCCAACGCAACCTGGACCAGCTGCGCGATGAGCTCAGTGCCTTCATCCG  
 CGTCAGCACAGATGGGGCGGAAGATGGAGATTCCTGGACCCTCAGGCTCTCTCCGAGGAGGTCCGCCAG  
 AGACTGCAGGCTTTTCGGCATGACACCTACCTGCAGATTGCTGCATTTACTCAGGCCATTGACCAGGAGA  
 CAGAGGAAATTCAGCACAGCTAGCCCCACCCCGCCTAGCCACAGCGCCTTCGCTCCTGAGCTGGGACA  
 CTAGACAGTAATAAGGCCCTGAGCAGACTGCAGAGCCGACTGGACGACCTGTGGGAAGATATTGCCTAT  
 GGCCTTCAAGACCAGGTCATAGTCATTTGAGTGACCCTGAGGCTCACTCCGGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >MR205662 representing NM\_080434  
Red=Cloning site Green=Tags(s)

MAAVITWALALLAVFASTQARKSLWDYFSQNSWSKGVMGQPQKLAQENLKGSFEQDLNMMNNYLEKLGPL  
 RGPGEKPELLAQDPEGIRKQLQELGEVSSRLEPYMAAKHQQVGWNLGLRQQLKPYTAELMEQVGLSVQ  
 ELQEQLRVVGEDTKAQLLGGVDEALNLLQDMQSRVLLHHTDRVKELFHPYAERLVTGIGHHVQELHRSVAP  
 HAAASPARLSRCVQTLSHKLTRKAKDLHTSIQRNLDQLRDEL SAF IRVSTDGAEDGDSLDPQALSEEVRQ  
 RLQAFRHDTYLQIAAFTQAIDQETEEIQHQLAPPPPSHSAFAPELGHSDSNKALSRLQSRLLDDLWEDIAY  
 GLQDQGHSHLSDPEGHSG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9005\\_e09.zip](https://cdn.origene.com/chromatograms/mm9005_e09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_080434

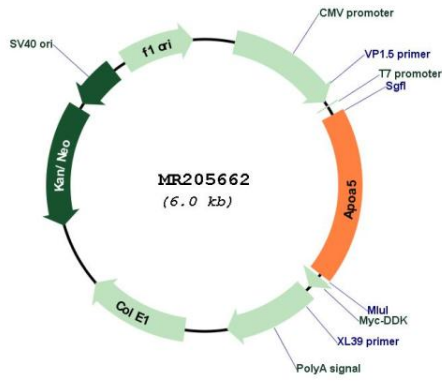
**ORF Size:** 1104 bp

**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](mailto: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](#)

<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_080434.4</a>
<b>RefSeq Size:</b>	2321 bp
<b>RefSeq ORF:</b>	1107 bp
<b>Locus ID:</b>	66113
<b>UniProt ID:</b>	<a href="#">Q8C7G5</a>
<b>Cytogenetics:</b>	9 A5.2
<b>MW:</b>	41.7 kDa
<b>Gene Summary:</b>	Minor apolipoprotein mainly associated with HDL and to a lesser extent with VLDL. May also be associated with chylomicrons. Important determinant of plasma triglyceride (TG) levels by both being a potent stimulator of apo-CII lipoprotein lipase (LPL) TG hydrolysis and an inhibitor of the hepatic VLDL-TG production rate (without affecting the VLDL-apoB production rate). Activates poorly lecithin:cholesterol acyltransferase (LCAT) and does not enhance efflux of cholesterol from macrophages (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205662