

Product datasheet for **RG201451**

Apolipoprotein O (APOO) (NM_024122) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Apolipoprotein O (APOO) (NM_024122) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: APOO
Synonyms: FAM121B; Mic23; MIC26; MICOS26; My025
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG201451 representing NM_024122
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTCAAGGTAATTCAGAGGTCCTGGGGCCAGCCAGCCTGAGCTTGCTCACCTCAAAGTCTATGCAG
 CACCAAAAAGGACTCACCTCCCAAAATTCGGTGAAGGTTGATGAGCTTCACTCTACTCAGTTCCTGA
 GGGTCAATCGAAGTATGTGGAGGAGCAAGGAGCCAGCTTGAAGAAAGCATCTCACAGCTCCGACACTAT
 TGCAGCCATACACAACCTGGTGTGAGAAACGTACTCCCAAACTAAGCCCAAGATGCAAAGTTTGGTTC
 AATGGGGTTAGACAGCTATGACTATCTCCAAAATGCACCTCCTGGATTTTTCCGAGACTTGGTGTAT
 TGGTTTTGCTGGCCTTATTGGACTCCTTTGGCTAGAGGTTCAAAAATAAGAAGCTAGTGATCCGCCT
 GGTTCATGGGATTAGCTGCCTCCTCTATTATCCACAACAAGCCATCGTGTGGCCAGGTCAGTGGGG
 AGAGATTATGACTGGGGTTTACGAGGATATATAGTCATAGAAGATTTGTGGAAGGAGAAGCTTTCAAAA
 GCCAGGAAATGTGAAGAATTCACCTGGAAGTAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG201451 representing NM_024122
 Red=Cloning site Green=Tags(s)

MFKVIQRVGPASLSLLTFKVYAAPKKDSPKNSVKVDELSLYSVPEGQSKYVEEARSQLEESISQLRHY
 CEPYTTWCQETYSQTKPKMQSLVQWGLDSYDYLQAPPGFPPRLGVIGFAGLIGLLLARGSKIKKLVYPP
 GFMGLAASLYPQQAIVFAQVSGERLYDWGLRGYIVIEDLWKENFQKPGNVKNSPGTK

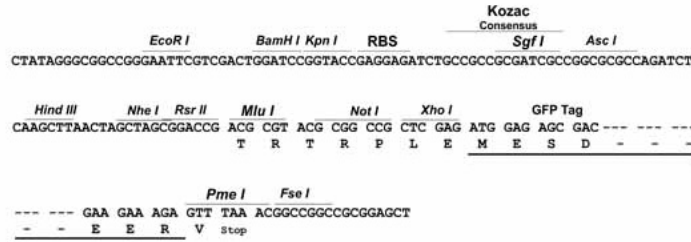
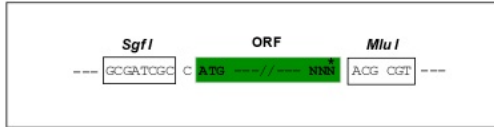
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

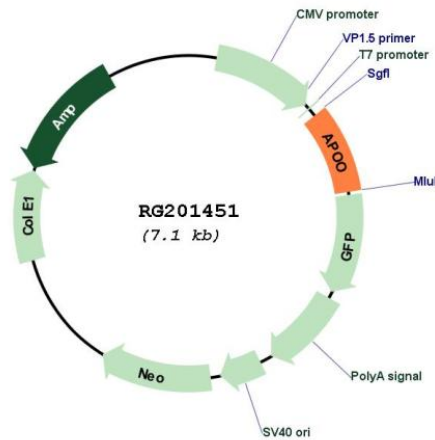


Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_024122
 ORF Size: 594 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_024122.5](#)

RefSeq Size: 1124 bp

RefSeq ORF: 597 bp

Locus ID: 79135

UniProt ID: [Q9BUR5](#)

Cytogenetics: Xp22.11

Protein Families: Secreted Protein, Transmembrane

Gene Summary: This gene is a member of the apolipoprotein family. Members of this protein family are involved in the transport and metabolism of lipids. The encoded protein associates with HDL, LDL and VLDL lipoproteins and is characterized by chondroitin-sulfate glycosylation. This protein may be involved in preventing lipid accumulation in the myocardium in obese and diabetic patients. Alternative splicing results in multiple transcript variants. Pseudogenes of this gene are found on chromosomes 3, 4, 5, 12 and 16.[provided by RefSeq, Sep 2009]