

## Product datasheet for **RG200503**

### Apolipoprotein D (APOD) (NM\_001647) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Apolipoprotein D (APOD) (NM\_001647) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Apolipoprotein D  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG200503 representing NM\_001647  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGATGCTGCTGCTGCTGCTTTCCGCACTGGCTGGCCTCTTCGGTGCAGGAGGGACAAGCATTTC  
ATCTTGGGAAGTGCCCAATCCTCCGGTGCAGGAGAATTTGACGTGAATAAGTATCTCGGAAGATGGTA  
CGAAATTGAGAAGATCCCAACAACCTTTGAGAATGGACGCTGCATCCAGGCCAACTACTACTAATGGAA  
AACGAAAAGATCAAAGTGTTAAACCAGGAGTTGAGAGCTGATGGAAGTGAATCAAATCGAAGGTGAAG  
CCACCCAGTTAACCTCACAGAGCCTGCCAAGCTGGAAGTTAAGTTTTCTGGTTTATGCCATCGGCACC  
GTACTGGATCCTGGCCACCGACTATGAGAACTATGCCCTCGTGTATTCTGTACCTGCATCATCCAATT  
TTTCACGTGGATTTTGCTTGGATCTTGGCAAGAAACCCTAATCTCCCTCCAGAAACAGTGGACTCTCTAA  
AAAATATCCTGACTTCTAATAACATTGATGTCAAGAAAATGACGGTACAGACCAGGTGAAGTCCCAAA  
GCTCTCG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG200503 representing NM\_001647  
Red=Cloning site Green=Tags(s)  
MVMLLLLLSALAGLFGAAEQAFHLGKCPNPPVQENFDVNKYLGRWYEIEKIPTTFENGRCIQANYSLME  
NGKIKVLNQELRADGTVNQIEGEATPVNLTEPAKLEVKFSWFMPSPYWIATDYENYALVYSCTCIIQL  
FHVDFAWILARNPNLPPETVDSLKNILTSNNIDVKKMTVDQVNCPKLS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**



**ACCN:** NM\_001647

**ORF Size:** 567 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.

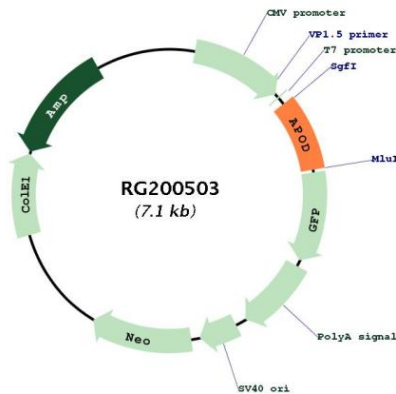
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**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:	<a href="#">NM_001647.4</a>
RefSeq Size:	1061 bp
RefSeq ORF:	570 bp
Locus ID:	347
UniProt ID:	<a href="#">P05090</a>
Cytogenetics:	3q29
Domains:	lipocalin
Protein Families:	Secreted Protein
Gene Summary:	This gene encodes a component of high density lipoprotein that has no marked similarity to other apolipoprotein sequences. It has a high degree of homology to plasma retinol-binding protein and other members of the alpha 2 microglobulin protein superfamily of carrier proteins, also known as lipocalins. This glycoprotein is closely associated with the enzyme lecithin:cholesterol acyltransferase - an enzyme involved in lipoprotein metabolism. [provided by RefSeq, Aug 2008]

**Product images:**


Circular map for RG200503