

## Product datasheet for **RG211023**

### Apolipoprotein A V (APOA5) (NM\_052968) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Apolipoprotein A V (APOA5) (NM_052968) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Apolipoprotein A V
Synonyms:	APOAV; RAP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211023 representing NM_052968 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAAGCATGGCTGCCGTGCTCACCTGGGCTCTGGCTCTTCTTTTCAGCGTTTTTCGGCCACCCAGGCAC  
GGAAAGGCTTCTGGGACTACTTCAGCCAGACCAGCGGGGACAAAGGCAGGGTGGAGCAGATCCATCAGCA  
GAAGATGGCTCGCGAGCCCGGACCCCTGAAAGACAGCCTTGAGCAAGACCTCAACAATATGAACAAGTTC  
CTGGAAAAGCTGAGGCCCTGAGTGGGAGCGAGGCTCCTCGGCTCCACAGGACCCGGTGGGCATCGCGC  
GGCAGCTGCAGGAGGAGTTGGAGGAGGTGAAGGCTCGCCTCCAGCCCTACATGGCAGAGGCGCACGAGCT  
GGTGGGCTGGAATTTGGAGGGCTTTCGGCAGCAACTGAAGCCCTACACGATGGATCTGATGGAGCAGGTG  
GCCCTGCGCGTGCAGGAGCTGCAGGAGCAGTTGCGCGTGGTGGGGGAAGACACCAAGGCCAGTTGCTGG  
GGGGCGTGGACGAGGCTTGGGCTTTGCTGCAGGGACTGCAGAGCCGCGTGGTGCACCACACCGGCCGCTT  
CAAAGAGCTCTTCCACCCATACGCCGAGAGCCTGGTGAGCGGCATCGGGCGCCACGTGCAGGAGCTGCAC  
CGCAGTGTGGCTCCGACGCCCCCGCAGCCCCGCGCCCTCAGTCGCTGCGTGCAGGTGCTCTCCCGGA  
AGCTCACGCTCAAGGCCAAGGCCCTGCACGCACGCATCCAGCAGAACCTGGACCAGCTGCAGGAGAGCT  
CAGCAGAGCCTTTGCAGGCACTGGGACTGAGGAAGGGCCGCCCCGACCCAGATGCTCTCCGAGGAG  
GTGCGCCAGCGACTTCAGGCTTTCCGCCAGGACACCTACCTGCAGATAGCTGCCTTCACTCGGCCATCG  
ACCAGGAGACTGAGGAGTCCAGCAGCAGCTGGCGCCACCTCCACCAGGCCACAGTGCCTTCGCCCCAGA  
GTTTCAACAAACAGACAGTGGCAAGGTTCTGAGCAAGCTGCAGGCCCGTCTGGATGACCTGTGGGAAGAC  
ATCACTCACAGCCTTCATGACCAGGGCCACAGCCATCTGGGGACCCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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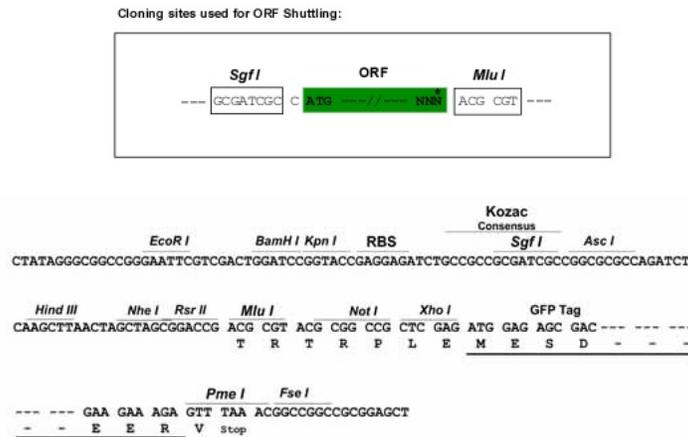
**Protein Sequence:** >RG211023 representing NM\_052968  
 Red=Cloning site Green=Tags(s)

MASMAAVLTWALALLSAFSATQARKGFWDYFSQTSQDKGRVEQIHQQKMAREPATLKDSLEQDLNNMNKF  
 LEKLRPLSGSEAPRLPQDPVGMRRQLQEELVEVKARLQPYMAEAHEL VGWNLGLRQQLKPYTMDLMEQV  
 ALRVQELQEQLRVVGEDTKAQLLGGVDEAWALLQGLQSRVVHHTGRFKELFHPYAESLVSIGRHHVQELH  
 RSVAPHAPASPARL SRCVQVLSRKLTLKAKALHARIQQNLDQLREEL SRAFAGTGTTEEGAGPDPQMLSEE  
 VRQRLQAFRQDTYLQIAAFTRAIDQETEEVQQQLAPPPP GHSAFAPEFQQTDSGKVL SKLQARLDDLWED  
 ITHSLHDQGHSHLGDP

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_052968

**ORF Size:** 1098 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.

**RefSeq:** [NM\\_052968.5](#)

**RefSeq Size:** 1889 bp

**RefSeq ORF:** 1101 bp

**Locus ID:** 116519

**UniProt ID:** [Q6Q788](#)

**Cytogenetics:** 11q23.3

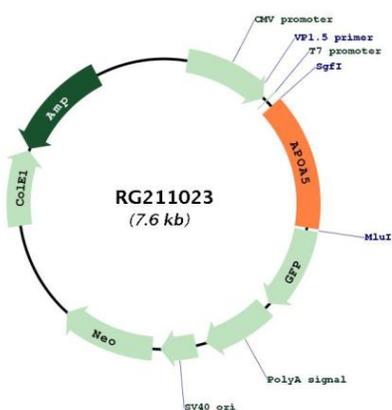
**Domains:** Apolipoprotein

**Protein Families:** Druggable Genome, Secreted Protein

**Protein Pathways:** PPAR signaling pathway

**Gene Summary:** The protein encoded by this gene is an apolipoprotein that plays an important role in regulating the plasma triglyceride levels, a major risk factor for coronary artery disease. It is a component of high density lipoprotein and is highly similar to a rat protein that is upregulated in response to liver injury. Mutations in this gene have been associated with hypertriglyceridemia and hyperlipoproteinemia type 5. This gene is located proximal to the apolipoprotein gene cluster on chromosome 11q23. Alternatively spliced transcript variants encoding the same protein have been identified. [provided by RefSeq, Oct 2009]

## Product images:



Circular map for RG211023