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Product datasheet for SC120180

Apolipoprotein A V (APOA5) (NM_052968) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apolipoprotein A V (APOA5) (NM_052968) Human Untagged Clone
Tag:	Tag Free
Symbol:	Apolipoprotein A V
Synonyms:	APOAV; RAP3
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC120180 sequence for NM_052968 edited (data generated by NextGen Sequencing)

ATGGCAAGCATGGCTGCCGTGCTCACCTGGGCTCTGGCTCTTCTTTCAGCGTTTTCGGCC
ACCCAGGCACGGAAAGGCTTCTGGGACTACTTCAGCCAGACCAGCGGGGACAAAGGCAGG
GTGGAGCAGATCCATCAGCAGAAGATGGCTCGCGAGCCCGCGACCCTGAAAGACAGCCTT
GAGCAAGACCTCAACAATATGAACAAGTTCCTGGAAAAGCTGAGGCCTCTGAGTGGGAGC
GAGGCTCCTCGGCTCCCACAGGACCCGGTGGGCATGCGGCGGCAGCTGCAGGAGGAGTTG
GAGGAGGTGAAGGCTCGCCTCCAGCCCTACATGGCAGAGGCGCACGAGCTGGTGGGCTGG
AATTTGGAGGGCTTGCGGCAGCAACTGAAGCCCTACACGATGGATCTGATGGAGCAGGTG
GCCCTGCGCGTGCAGGAGCTGCAGGAGCAGTTGCGCGTGGTGGGGGAAGACACCAAGGCC
CAGTTGCTGGGGGGCGTGGACGAGGCTTGGGCTTTGCTGCAGGGACTGCAGAGCCGCGTG
GTGCACCACACCGGCCGCTTCAAAGAGCTCTTCCACCCATACGCCGAGAGCCTGGTGAGC
GGCATCGGGCGCCACGTGCAGGAGCTGCACCGCAGTGTGGCTCCGCACGCCCCCGCCAGC
CCCGCGCGCCTCAGTCGCTGCGTGCAGGTGCTCTCCCGGAAGCTCACGCTCAAGGCCAAG
GCCCTGCACGCACGCATCCAGCAGAACCTGGACCAGCTGCGCGAAGAGCTCAGCAGAGCC
TTTGCAGGCACTGGGACTGAGGAAGGGGCCGGCCCGGACCCCCAGATGCTCTCCGAGGAG
GTGCGCCAGCGACTTCAGGCTTTCCGCCAGGACACCTACCTGCAGATAGCTGCCTTCACT
CGCGCCATCGACCAGGAGACTGAGGAGGTCCAGCAGCAGCTGGCGCCACCTCCACCAGGC
CACAGTGCCTTCGCCCCAGAGTTTCAACAAACAGACAGTGGCAAGGTTCTGAGCAAGCTG
CAGGCCCGTCTGGATGACCTGTGGGAAGACATCACTCACAGCCTTCATGACCAGGGCCAC
AGCCATCTGGGGGACCCCTGA

Clone variation with respect to NM_052968.4

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_052968 unedited
GTTCAAATATTTGTAATACGAACTCACTATAGGGCGGCCGCGAATCGGCACCAGCCTCCC
TCCACCTGTCTTCTCAGAGCAGATAATGGCAAGCATGGCTGCCGTGCTCACCTGGGCTCT
GGCTCTTCTTTCAGCGTTTTCGGCCACCCAGGCACGGAAAGGCTTCTGGGACTACTTCAG
CCAGACCAGCGGGGACAAAGGCAGGGTGGAGCAGATCCATCAGCAGAAGATGGCTCGCGA
GCCCGCGACCCTGAAAGACAGCCTTGAGCAAGACCTCAACAATATGAACAAGTTCCTGGA
AAAGCTGAGGCCTCTGAGTGGGAGCGAGGCTCCTCGGCTCCCACAGGACCCGGTGGGCAT
GCGGCGGCAGCTGCAGGAGGAGTTGGAGGAGGTGAAGGCTCGCCTCCAGCCCTACATGGC
AGAGGCGCACGAGCTGGTGGGCTGGAATTTGGAGGGCTTGCGGCAGCAACTGAAGCCCTA
CACGATGGATCTGATGGAGCAGGTGGCCCTGCGCGTGCAGGAGCTGCAGGAGCAGTTGCG
CGTGGTGGGGGAAGACACCAAGGCCCAGTTGCTGGGGGGCGTGGACGAGGCTTGGGCTTT
GCTGCAGGGACTGCAGAGCCGCGTGGTGCACCACACCGGCCGCTTCAAAGAGCTCTTCCA
CCCATACGCCGAGAGCCTGGTGAGCGGCATCGGGCGCCACGTGCANGAGCTGCACCGCAG
TGTGGCTCCGCACGCCCCCGCCAGCCCCGCGCGCCTCAGTCGCTGCGTGCAGGTGCTCTC
CCGGNAGCTCACGCTCAAGGCCAAGGGCCTGCACGCACGCATCCAGCAGAACCTGGACCA
GCTGCGCGAAGAGCTCAGCAGAACCCTTGCAGGCACTGGGACTGAGGAAAGGGCCGGCCC
GGACCCCAAATGCTCTCGAGGAGTGCGCCACGACTCCGGCTTTTCGCCCGGAACCTACCG
CGGAA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_052968 unedited
TTCNNCNAATTACTTGNACCGCGCCGCATTCNANGATCGAGTTTTTTTTTTTTTTTTTGC
AAAGCCTGGTGAATGTAATGCATCCAGATTGGGGAGTCGCAGGAGGCTGGATATGCAGGA
GACAGCAGCCCCTTTGGTGGCCTCCCTGTCCTGCACAGGACCTTCCACCCTCCACCCAAC
AGGCCACTTTCAAGGACTGAACCATGCTAGAGGCTCAGAGCCAAGGCTCCCCAGACAAGG
AGCTGGGAATGGGCCTGGGCAGGTAGATCCTCAGGGGTCCCCCAGATGGCTGTGGCCCTG
GTCATGAAGGCTGTGAGTGATGTCTTCCCACAGGTCATCCAGACGGGCCTGCAGCTTGCT
CAGAACCTTGCCACTGTCTGTTTGTTGAAACTCTGGGGCGAAGGCACTGTGGCCTGGTGG
AGGTGGCGCCAGCTGCTGCTGGACCTCCTCAGTCTCCTGGTCGATGGCGCGAGTGAAGGC
AGCTATCTGCAGGTAGGTGTCCTGGCGGAAAGCCTGAAGTCGCTGGCGCACCTCCTCGGA
GAGCATCTGGGGGTCCGGGCCGGCCCCTTCCTCAGTCCCAGTGCCTGCAAAGGCTCTGCT
GAGCTCTTCGCGCAGCTGGTCCAGGTTCTGCTGGATGCGTGCGTGCAGGGCCTTGGCCTT
GAGCGTGAGCTTCCGGGAGAGCACCTGCACGCAGCGACTNGAGCGCGCGGNGCTGGCGGG
GGCGTGCGGAGCCACACTGCGGTGCAGCTCCTGCACGTGGCGCCCCATGCCGCTCACCAG
GCTCTCGGCGTATGGGTGGGAGAGCTCTTTGAAGCCGGCCGGGTGTGGTGCACCACGCGG
CTCTTGCAC

Restriction Sites: NotI-NotI

ACCN: NM_052968

Insert Size: 1550 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_052968.3, NP_443200.2
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] Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.