

Product datasheet for **RR212920**

Apoa1 (NM_012738) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Apoa1 (NM_012738) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Apoa1
Synonyms: apoA-I
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR212920 representing NM_012738
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAAAGCTGCAGTGTGGCTGTGGCCCTGGTCTTCCTGACAGGTTGCCAAGCTTGGGAGTTCTGGCAGC
AAGATGAGCCCCAGTCCAATGGGACAGGGTGAAGGATTCGCCACTGTGTATGTGGATGCAGTCAAGGA
CAGCGGCAGAGACTATGTGTCCAGTTTGAATCCTCCACTTTGGGCAAACAGCTGAACCTGAATCTCCTG
GACAACTGGGACACTCTGGTTCAACTGTTGGTCGCCTACAGGAACAGCTAGGCCAGTGACTCAGGAGT
TCTGGGCTAACCTGGAGAAAGAAACAGATTGGCTGAGAAACGAGATGAACAAGGACCTGGAGAATGTGAA
ACAGAAGATGCAGCCCCACCTGGATGAATTCCAGGAGAAGTGAACGAGGAGGTGCGAGCCCTACCGCCAG
AAGCTGGAGCCTCTGGCACCGAGCTTCACAAAAACGCGAAGGAGATGCAAGGCATCTAAAGTTGTGG
CCGAGGAGTTTCGAGACCGCATGCGTGTGAATGCAGACGCGTGCAGCGCAAAGTTTGGGCTCTACAGCGA
TCAGATGCGCGAGAACCCTGGCCAGCGCCTGACCGAGATCAAGAACCACCTACCTGATCGAGTATCAT
ACCAAGGCCAGCGACCACCTGAAGACACTTGGTGAGAAAGCCAAACCCGCGCTGGATGACCTGGCCAGG
GCCTGATGCCGGTGTGGAAGCCTGGAAGGCCAAAATCATGAGTATGATCGATGAGGCCAAAAAGAAGCT
GAACGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RR212920 representing NM_012738
Red=Cloning site Green=Tags(s)

MKAAVLAVALVFLTGCQAWFEWQQDEPQSQWDRVKDFATVYVDAVKDSGRDYVSQFESSTLGKQLNLNLL
 DNWDTLGSTVGRLEQLGPVTQEFWANLEKETDWLRNEMNKDLENVKQKMQPHLDEFQEKNWEEVEAYRQ
 KLEPLGTELHKNKAKEMQRHLKVVAAEEFRDRMRVNADALRAKFGLYSDQMRENLAQRLTEIKNHPTLIEYH
 TKASDHLKTLGEKAKPALDDLGGQLMPVLEAWKAKIMSMIDEAKKLLNA

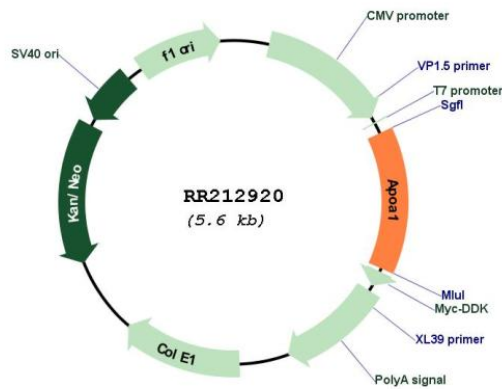
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_012738
ORF Size: 777 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: | <ol style="list-style-type: none">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_012738.1 , NP_036870.1 |
| RefSeq Size: | 889 bp |
| RefSeq ORF: | 780 bp |
| Locus ID: | 25081 |
| UniProt ID: | P04639 |
| Cytogenetics: | 8q22 |
| MW: | 30.1 kDa |
| Gene Summary: | major component of high density lipoprotein (HDL) that is involved in intercellular cholesterol transport in astrocytes; cofactor for lecithin cholesterolacyltransferase (LCAT) [RGD, Feb 2006] |