

Product datasheet for **RR211665**

Apof (NM_001024351) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Apof (NM_001024351) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Apof
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR211665 representing NM_001024351
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTGCTCAGCTCCTGACATGCACAGTCTCAGACTCAATTCGACATCAATTCAGCTGCTTTGCTACCT
CCTGCTGTCTGTGGGTGCCGAAGGGTGTCTCTACGATGCTCCCTCCCTCGCAGTTGGGATCACAGCC
GCCTACCTCAGACCCGTTGTCTGCCAGGCGCTGCTCCAAGGTCCTGCCTGGCTTCACTCACATGCCT
CCTCTCTCCAAATTCCTGGTAGGCCTGGCTCTAAGGAATGCTCTGGAGGAAGCTGGCTGCTGGGCTGATG
TCTGGGCTCTTCAGCTTACGCTTTACCGATTCCGGAGGTGTGGAGGCTACACAGGCCCTCATCCGCCATCT
TCAAGAGCTCCAGAAAGGTGGACGTGCAGACTGGAAAGTGTCCGTGAATGCTCTGTCTCTGCCCTACAG
CTCTTAGCCTGGGAGCAGGCAGGTCCAAAGAGGGTCAAACGTTTCGCTTTCTAACATGGGCTGTGAGAATG
AGCAGGAACAGAGAGTGCACAATGTGGTTGAGCTGCTGCCAGCAGTGGGCACCTACTACAACCTAGGCAC
AGCCTTGTATTACGCCATTAAGAACTGCACTGACAAGGCCAAGGAACGAGGCCGAGATGGGGCCATAGAC
CTGGGTTATGATCTTTGATGACCATGGTGGGTATGTGAGGGGGCCAACTGGTGCAGTGATCACTGCTG
CTCTTAAGCCAGCGCTGAAGGCTGGGGTTCAGCGGCTGATCCGATATTATCATGACGAGGAAGGGGTGAC
CACCTCTCAGCCAGAGACCCGGAAGGATGCCCCACATATAGAGATGACGTGGAAGAAACAACCATGTCC
AATTTGGTGTGAGAAGTTGAAAGTACAACCTTCTAACTGGGGGAGGCCCTTTATTAAGAACTATGTTTTT
TGGCATAACAAGAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR211665 representing NM_001024351
 Red=Cloning site Green=Tags(s)

MGAQLLTCTVSDSIRHQFSCFATSCCVLWVPKGVSTMLPPSQLGSQPPTSDPLSCQALLPRSLPGFTHMP
 PLSKFLVGLALRNAL EEAGCWADVWALQLQLYRFGGVEATQALIRHLQELQKGRADWKVSVNALSSALQ
 LLAWEQAGPKRVKRSLSNMGCENEQEQRVHNVVELLPVGTYYNLGTALYYAIKNCTDKAKERGRDGAID
 LGYDLLMTMVGMSGGPTGAVITAALKPALKAGVQRLIRYYHDEEGVTTSQPETRKDAPTYRDDVEETMS
 NLVSEVESTTSNWRPLLKNYVFLAYKR

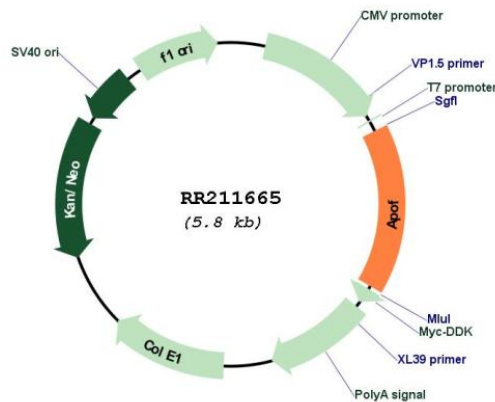
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001024351

| | |
|-------------------------------|---|
| ORF Size: | 924 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_001024351.1 , NP_001019522.1 |
| RefSeq Size: | 1226 bp |
| RefSeq ORF: | 927 bp |
| Locus ID: | 500761 |
| UniProt ID: | Q5M889 |
| Cytogenetics: | 7q11 |
| MW: | 33.8 kDa |
| Gene Summary: | Minor apolipoprotein that associates with LDL. Inhibits cholesteryl ester transfer protein (CETP) activity and appears to be an important regulator of cholesterol transport. Also associates to a lesser degree with VLDL, Apo-AI and Apo-AII.[UniProtKB/Swiss-Prot Function] |