

Product datasheet for **RC231317**

AOPEP (NM_001193331) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AOPEP (NM_001193331) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AOPEP
Synonyms:	AP-O; APO; C9orf3; C9ORF3; ONPEP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC231317 representing NM_001193331
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACATACAGCTGGACCTGCCAGAGATGACCTGCCTCTCATGGCCAACACCAGCCACATACTTGTGA
 AGCACTATGTAAGTGGATTTGGATGTGGATTTTGAAGTCAAGTCATTGAGGGGACCATAGTGCTTTTCT
 CGAGGATGGAAACAGATTCAAGAAACAGAAATAGCTCTATTGAGGAAGCCTGCCAATCAGAATCAAACAAA
 GCCTGCAAATTTGGGATGCCTGAACCTGCCATATTCCCGTGACAAATGCAAGGACCTTCTCATCTGAAA
 TGGAAATAATGATTTTGAATCTGTAGTAAAGGTGAAAAAGATACTTCTGATAAAGATGGTAACCATGA
 CAACCAGGAACATGCTTCTGGGATTTCTAGCTCAAAGTACTGCTGTGACACAGGGAAATCATGGGAGTGAG
 GATTTTTTGTAGTGTGGACTGCTGTGATTTATCTGTGTTAAAAGTCGAGGAGGTGGATGTTGCTGCTG
 TGCCAGGTCTGGAAAAATTTACAAGTCTCCTGAGCTCACGGTTGTTTCTGAGGAGTTCAGGAATCAGAT
 TGTACGTGAACCTGTGACTTTGCCTGCAAATCGTTGGAGGGAGCAGTTAGACTATTACGCTCGCTGCAGC
 CAGGCTCCTGGCTGTGGGAACTCCTCTTTGACACTGACACTGGAGCTTGACAGATAAGGAAGACAGGGG
 CTCAGACAGCTACTGACTTTCCTCATGCTATCAGGATATGGTACAAAACAACTAAACCTGAAGGGCGATCCGGT
 TACATGGACCTCAGACCAGAGTGGCAGGCCATGTGTTTATACTGTGGGATCTCCCATAAACAACAGGGCC
 CTTTTCCATGCCAGGAGCCACCCGTTGCCATGTCAACATGGCAGGCTACAGTTCGAGCAGCTGCATCTT
 TTGTTGTTTTAATGAGTGGGAAAAATTTGCCAAACCAACGCAGCTTTGGGAAGAGTGCTCAAGCTGGTA
 TTAATAAGTAACTATGCCAATGCCAGCTCCACCTTACAATTGCAGTGGGATGCTGGACAGAAATGAAG
 ATGGAGACATGGTCATCAAATGATTTGGCAACAGAGAGACCCTTCTCACCTTCTGAGGCCAACTTCAGGC
 ATGTTGGTGTTCAGTCACATGGAATACCCCTGCCGCTCCAGAATGCTTCTGCCACCACCCAGGAGAT
 CATTCTCATCGGTCTTTGCCCTGTGTGCCTCACGGGTGCTGCCAAGAGACCCTTCTGCGGCTGATC
 CCTCCTTGCTCTCAGCAGCACATTCTGTTCTGGGAGCACACCCGTTCTCTCGGCTGGATGTTCTCATCG
 TCCCTGCCAACTTCCAAGTCTGGGATGGCCAGCCACACATCATGTTCTCTCAGAGCATCTTGAC
 AGGAGGAAACATCTCTGTGGGACCCGCTCTGCCATGAAATGCCCATGCCTGGTTTGGCTAGCCATC
 GGGGCCGAGACTGGACGGAGGAGTGGCTGAGTGAAGGCTTCGCCACTCACTGGAGGATGTGTTTTGGG
 CCACAGCACAGCAGCTGGCCCCATGAGGCCCGGAGCAGCAGGAGCTGAGGGCTGTCTGCGCTGGCG
 TCGCCTCCAGGACGAGATGCAATGCTCCCCGAGGAGATGCAGGTGTTAAGGTTCCACATGTTGGCGGA
 TGCAGTGAAGCTTCTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC231317 representing NM_001193331
 Red=Cloning site Green=Tags(s)

MDIQLDPARDDLPLMANTSHILVKHYVLDLVDVFESQVIEGTIVLFLEDGNRFKQNSSIEEACQSESNK
 ACKFGMPEPCHIPVTNARTFSSEMEYNDFAIKSKGEKDTSDKDGNHDNQEHASGISSSKYCCDTGNHGSE
 DFLLVLDCCDL SVLKVEEVDVAAPVPLEKFTRSPELTVVSEEFRNQIVRELVTL PANRWREQLDYYARCS
 QAPGCGELLFDTDTWSLQIRKTGAQTATDFPHAIRIWKTKPEGRSVTWTSDQSGRPCVYTVGSPINNRA
 LFPCQEPVAMSTWQATVRAAASFVVLMSGENSAKPTQLWECCSSWYVVYVMPMPASTFTI AVGCWTEMK
 METWSSNDLATERPFSPSEANFRHVGVCSHMEYPCRFQNASATTQEII PHRVFAPVCLTGACQETLLRLI
 PPCLSAH SVLGAHPFSRLDVLIVPANFPSLGMASPHIMFLSQSILTGGNHL CGTRLCH EIAHAWFGLAI
 GARDWTEEWLSEGFATHLEDVFWATAQQLAPYEAREQELRACLRWRRLQDEMQCSP EEMQVLRFP HVGG
 CSGSFS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8067_f02.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001193331

ORF Size: 1698 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_001193331.3](#)

RefSeq ORF: 1701 bp

Locus ID: 84909

UniProt ID: [Q8N6M6](#)

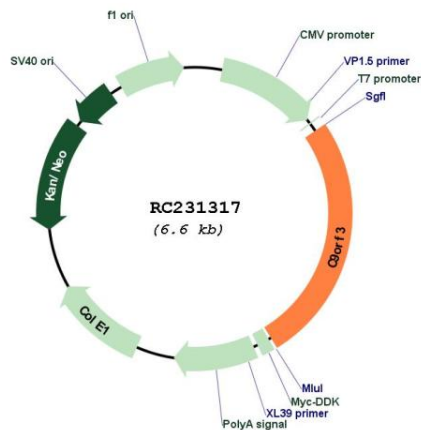
Cytogenetics: 9q22.32

Protein Families: Protease

MW: 63.8 kDa

Gene Summary: This gene encodes a member of the M1 zinc aminopeptidase family. The encoded protein is a zinc-dependent metallopeptidase that catalyzes the removal of an amino acid from the amino terminus of a protein or peptide. This protein may play a role in the generation of angiotensin IV. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Oct 2010]

Product images:



Circular map for RC231317