

Product datasheet for **RC202214**

AOPEP (NM_032823) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AOPEP (NM_032823) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RC202214 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACATACAGCTGGACCTGCCAGAGATGACCTGCCTCTCATGGCCAACACCAGCCACATACTTGTGA
 AGCACTATGTAAGTGGATTTGGATGTGGATTTTGAAGTCAAGTATTGAGGGACCATAGTGCTTTTCCT
 CGAGGATGGAAACAGATTCAAGAAACAGAAATAGCTCTATTGAGGAAGCCTGCCAATCAGAATCAAACAAA
 GCCTGCAAATTTGGGATGCCTGAACCTGCCATATCCCGTGACAAATGCAAGGACCTTCTCATCTGAAA
 TGGAAATAATGATTTTGAATCTGTAGTAAAGGTGAAAAAGATACTTCTGATAAAGATGGTAACCATGA
 CAACCAGGAACATGCTTCTGGGATTTCTAGCTCAAAGTACTGCTGTGACACAGGGAATCATGGGAGTGAG
 GATTTTTTGTAGTGTGGACTGCTGTGATTTATCTGTGTTAAAAGTCGAGGAGGTGGATGTTGCTGCTG
 TGCCAGGTCTGGAAAAATTTACAAGTCTCCTGAGCTCACGGTTGTTTCTGAGGAGTTCAGGAATCAGAT
 TGTACGTGAACCTGTGACTTTGCCTGCAAATCGTTGGAGGGAGCAGTTAGACTATTACGCTCGCTGCAGC
 CAGGCTCCTGGCTGTGGGAACTCCTCTTTGACACTGACACTGGAGCTTGACAGATAAGGAAGACAGGGG
 CTCAGACAGCTACTGACTTTCTCATGCTATCAGGATATGGTACAAAACCTAAACCTGAAGGGCGATCCGGT
 TACATGGACCTCAGACCAGAGTGGCAGGCCATGTGTTTATACTGTGGGATCTCCCATAAACAACAGGGCC
 CTTTTCCATGCCAGGAGCCACCCGTTGCCATGTCAACATGGCAGGCTACAGTTCGAGCAGCTGCATCTT
 TTGTTGTTTTAATGAGTGGGGAAAATTTGCCAAACCAACGCAGCTTTGGGAAGAGTGCTCAAGCTGGTA
 TTAATAAGTAACTATGCCAATGCCAGCTCCACCTTACAATTGCAGTGGGATGCTGGACAGAAATGAAG
 ATGGAGACATGGTCATCAAATGATTTGGCAACAGAGAGACCCTTCTCACCTTCTGAGGCCAATTCAGGC
 ATGTTGGTGTTCAGTCACATGGAATACCCCTGCCGCTCCAGAAATGCTTCTGCCACCACCCAGGAGAT
 CATTCTCATCGGGTCTTTGCCCTGTGTGCCTCACGGGTGCCTGCCAAGAGACCCTTCTCGCGCTGATC
 CCTCCTTGCTCTCAGCAGCACATTCTGTTCTGGGAGCACACCCGTTCTCTCGGCTGGATGTTCTCATCG
 TCCCTGCCAACTTTCCAAGTCTGGGGATGGCCAGACCCAGTAAAGACAAAACCTGGCCACACAAGTGACTC
 GGGAGCATCTGTTATCAAGCATGGACTTAATCCGGAGAAGATCTTCATGCAGGTGCATTATTTAAAGGGC
 TACTTCTTCTCGTTTCTTGCCAAAAGACTTGGAGATGAAACCTATTTTTTCAATTTTAAAGAAAATTTG
 TGCACACATTTTCATGGACAGCTGATTCTTCCAGGATTTCTTCAAATGCTACTGGAGAACATTCCAGA
 AGAAAAAAGGCTTGAGCTGTCTGTTGAAAACATCTACCAAGACTGGCTTGAGAGTTCGGAAATACCAAAG
 CCGCTGCAGAGGGAGCGTCGCGCCGGGGCGGAGTGCGGGCTTGCGCGCAAGTGCAGCGCCGAGGTCACGA
 AATGGATTGGAGTGAACCGGAGACCCCGAAAACGGAAGCGCAGGGAGAAGGAAGAGGTGTTTAAAAGCT
 TCTTCCAGACCAGCTGGTCTTGCTTCTGGAGCATCTCTTGGAGCAGAAGACTCTGAGCCCCGAACCTCTG
 CAAAGCCTCCAGAGGACATACCACCTCCAGGATCAGGATGCAGAGGTTCCGCATCCGGTGGTGTGAACCTCA
 TTGTTAAGCACAAGTTCACGAAAGCCTACAAAAGTGTGGAGAGGTTCTTCCAGGAGGATCAGGCCATGGG
 TGTGTACCTCTACGGGGAGCTGATGGTGTGAGTGAGGACGCCAGACAGCAGCAGCTCGCCCGTAGGTGCTTC
 GAGCGGACCAAGGAGCAGATGGATAGTCTCAGCCCAGGTGGTGGCCGAAATGTTATTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC202214 protein sequence
Red=Cloning site Green=Tags(s)

```
MDIQLDPARDDLPLMANTSHILVKHYVLDLDVDFESQVIEGTIVLFLEDGNRFKKQNSSIEEACQSESNK
ACKFGMPEPCHIPVTNARTFSSEMEYNDFAIKSKGEKDTSDKDGNHDNQEHASGISSSKYCCDTGNHGSE
DFLLVLDCCLSVLKVEEVDVAAPVPLEKFTRSPELTVVSEEFRNQIVRELVTLPANRWREQLDYARCS
QAPGCGELLFDTDTWSLQIRKTGAQTATDFPHAIRIWKTKPEGRSVTWTSDQSGRPCVYTVGSPINNRA
LFPCQEPVAMSTWQATVRAAASFVVLMSGENSAKPTQLWEECSSWYVVYTMPMPASTFTI AVGCWTEMK
METWSSNDLATERPFSPSEANFRHVGVCSHMEYPCRFQNASATTQEIIIPHRVFAPVCLTGACQETLLRLI
PPCLSAHSLVLAHPFSRLDVLIVPANFPSLGMARPSKDKTGHTSDSGASVIKHGLNPEKIFMQVHYLKG
YFLLRFLAKRLGDETYFSFLRKFVHTFHGQLILSQDFLQMLLENIPPEEKRELSVENIYQDWLESSGIPK
PLQRERRAGAECGLARQVRAEVTKWIGVNRPRKRKRREKEEVFEKLLPDQLVLLLEHLLQKTLSPRTL
QSLQRTYHLQDQDAEVRHRWCCELIVKHKFTKAYKSVERFLQEDQAMGVVLYGELMVSEDARQQQLARRCF
ERTKEQMDRSSAQVVAEMLF
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6323_f07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

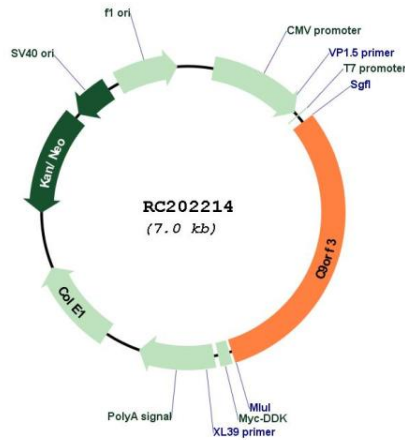
ACCN: NM_032823

ORF Size: 2160 bp

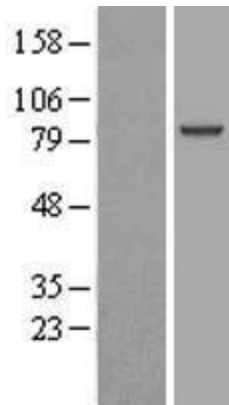
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_032823.5
RefSeq Size:	2931 bp
RefSeq ORF:	2163 bp
Locus ID:	84909
UniProt ID:	Q8N6M6
Cytogenetics:	9q22.32
Protein Families:	Protease
MW:	82.1 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 RC202214



Western blot validation of overexpression lysate (Cat# [LY409911]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202214 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified AOPEP protein (Cat# [TP302214]). The protein was produced from HEK293T cells transfected with AOPEP cDNA clone (Cat# RC202214) using MegaTran 2.0 (Cat# [TT210002]).