

## Product datasheet for **RG202214**

### **AOPEP (NM\_032823) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	AOPEP (NM_032823) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AOPEP
Synonyms:	AP-O; APO; C9orf3; C9ORF3; ONPEP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RG202214 representing NM\_032823  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGGACATACAGCTGGACCCTGCCAGAGATGACCTGCCTCTCATGGCCAACACCAGCCACATACTTGTGA  
AGCACTATGTAAGTGGATTTGGATGTGGATTTTGAAGTCAAGTCATTGAGGGGACCATAGTGCTTTTCCT  
CGAGGATGGAAACAGATTCAAGAAACAGAAATAGCTCTATTGAGGAAGCCTGCCAATCAGAATCAAACAAA  
GCCTGCAAATTTGGGATGCCTGAACCCTGCCATATCCCGTGACAAATGCAAGGACCTTCTCATCTGAAA  
TGGAAATAATGATTTTGAATCTGTAGTAAAGGTGAAAAAGATACTTCTGATAAAGATGGTAACCATGA  
CAACCAGGAACATGCTTCTGGGATTTCTAGCTCAAAGTACTGCTGTGACACAGGGAAATCATGGGAGTGAG  
GATTTTTTGTAGTGTGGACTGCTGTGATTTATCTGTGTTAAAAGTCGAGGAGGTGGATGTTGCTGCTG  
TGCCAGGTCTGGAAAAATTTACAAGTCTCCTGAGCTCACGGTTGTTTCTGAGGAGTTCAGGAATCAGAT  
TGTACGTGAACCTGTGACTTTGCCTGCAAATCGTTGGAGGGAGCAGTTAGACTATTACGCTCGCTGCAGC  
CAGGCTCCTGGCTGTGGGAACTCCTCTTTGACACTGACACTGGAGCTTGACAGATAAGGAAGACAGGGG  
CTCAGACAGCTACTGACTTTCTCATGCTATCAGGATATGGTACAAAACAACTAAACCTGAAGGGCGATCCGGT  
TACATGGACCTCAGACCAGAGTGGCAGGCCATGTGTTTATACTGTGGGATCTCCCATAAACAACAGGGCC  
CTTTTTCCATGCCAGGAGCCACCCGTTGCCATGTCAACATGGCAGGCTACAGTTCGAGCAGCTGCATCTT  
TTGTTGTTTTAATGAGTGGGGAAAATTTGCCAAACCAACGCAGCTTTGGGAAGAGTGCTCAAGCTGGTA  
TACTATGTAACATGCCAATGCCAGCTCCACCTTACAATTGCAGTGGGATGCTGGACAGAAATGAAG  
ATGGAGACATGGTCATCAAATGATTTGGCAACAGAGAGACCCTTCTCACCTTCTGAGGCCAATTCAGGC  
ATGTTGGTGTTCAGTCACATGGAATACCCCTGCCGCTCCAGAAATGCTTCTGCCACCACCCAGGAGAT  
CATTCTCATCGGGTCTTTGCCCTGTGTGCCTCACGGGTGCCTGCCAAGAGACCCTTCTCGCGCTGATC  
CCTCCTTGCCCTCAGCAGCACATTCTGTTCTGGGAGCACACCCGTTCTCTCGGCTGGATGTTCTCATCG  
TCCCTGCCAACTTTCCAAGTCTGGGGATGGCCAGACCCAGTAAAGACAAAACCTGGCCACACAAGTGACTC  
GGGAGCATCTGTTATCAAGCATGGACTTAATCCGGAGAAGATCTTCATGCAGGTGCATTATTTAAAGGGC  
TACTTCTTCTCGTTTCTTGCCAAAAGACTGGAGATGAAACCTATTTTTTCAATTTTAAAGAAAATTTG  
TGCACACATTTTCATGGACAGCTGATTCTTCCAGGATTTCTTCAAATGCTACTGGAGAACATTCCAGA  
AGAAAAAAGGCTTGAGCTGTCTGTTGAAAACATCTACCAAGACTGGCTTGAGAGTTCGGAATACCAAAG  
CCGCTGCAGAGGGAGCGTCGCGCCGGGGCGGAGTGCGGGCTTGCGCGCAAGTGCAGCGCCGAGGTCACGA  
AATGGATTGGAGTGAACCGGAGACCCCGAAAACGGAAGCGCAGGGAGAAGGAAGAGGTGTTTGAAGAGCT  
TCTTCCAGACCAGCTGGTCTTGCTTCTGGAGCATCTCTTGGAGCAGAAGACTCTGAGCCCCCGAACTCTG  
CAAAGCCTCCAGAGGACATACCACCTCCAGGATCAGGATGCAGAGGTTCCGCATCCGGTGGTGTGAACCTCA  
TTGTTAAGCACAAGTTCAGGAAAGCCTACAAAAGTGTGGAGAGGTTCTTCCAGGAGGATCAGGCCATGGG  
TGTGTACCTCTACGGGGAGCTGATGGTGTGAGTGAGGACGCCAGACAGCAGCAGCTCGCCCGTAGGTGCTTC  
GAGCGGACCAAGGAGCAGATGGATAGTCTCAGCCCAGGTGGTGGCCGAAATGTTATTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG202214 representing NM\_032823  
 Red=Cloning site Green=Tags(s)

```
MDIQLDPARDDLPLMANTSHILVKHYVLDLVDVFESQVIEGTIVLFLLEDGNRFKKQNSSIEEACQSESNK
ACKFGMPEPCHIPVTNARTFSSEMEYNDFAIKSKGEKDTSDKDGNHDNQEHASGISSSSKYCCDTGNHGSE
DFLLVLDCCDLVSLKVEEVDVAAPVPLEKFTTRPELTVVSEEFRNQIVRELVTLPANRWREQLDYARCS
QAPGCGELLFDTDWTLQIRKTGAQTATDFPHAIRIWKTKPEGRSVTWTSDQSGRPCVYTVGSPINNRA
LFPCQEPVAMSTWQATVRAAASFVVLMSGENSAKPTQLWEECSSWYIYVTPMPASTFTIIVGWCWTEMK
METWSSNDLATERPFSPSEANFRHVGVCSHMEYPCRFQNASATTQEIIPHRVFAPVCLTGACQETLLRLI
PPCLSAAHSVLGAHPFSRLDVLIVPANFPLGMARPSKDKTGHTSDSGASVIKHLNPEKIFMQVHYLKG
YFLLRFLAKRLGDETYFSFLRKFVHTFHGQLILSQDFLQMLLENIPPEKRELSVENIYQDWLESSGIPK
PLQRERRAGAECGLARQVRAEVTKWIGVNRPRKRKRREKEEVFEKLLPDQLVLLLEHLLQKTLSPRTL
QSLQRTYHLQDQDAEVRHRWCCELIVKHKFTKAYKSVRFQEDQAMGVLYGELMVSEDARQQQLARRCF
ERTKEQMDRSSAQVVAEMLF
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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:**

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\\_032823.5](#)

**RefSeq Size:** 2834 bp

**RefSeq ORF:** 2163 bp

**Locus ID:** 84909

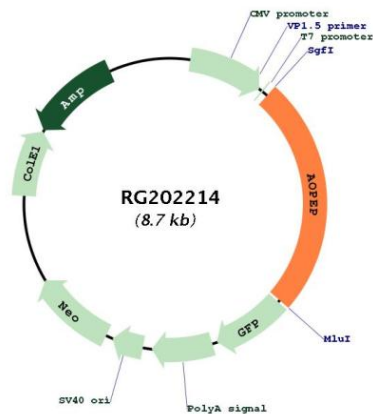
**UniProt ID:** [Q8N6M6](#)

**Cytogenetics:** 9q22.32

**Protein Families:** Protease

**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 RG202214