

Product datasheet for **SC303369**

VAP1 (AOC3) (NM_003734) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VAP1 (AOC3) (NM_003734) Human Untagged Clone
Tag:	Tag Free
Symbol:	VAP1
Synonyms:	HPAO; SSAO; VAP-1; VAP1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_003734 edited
GAGTCCGGGAGCCCCACCCCGTCCAGGAGCCAACAGAGCCCCCGTCTTGCTGGCGTGA
GAATACATTGCTCCTCTTGGTTGAATCAGCTGTCCCTTTCGTGGGAAAATGAACCAGA
AGACAATCCTCGTGCTCCTCATTCTGGCCGTCATCACCATCTTTCGCTTGGTTTGTGTCC
TGCTGGTGGGCGAGGGTGGAGATGGGGTGAACCCAGCCAGCTTCCCCATTGCCCTCTG
TATCTCCAGTGCCAGCCTTGGACACACCCTGGCCAGAGCCAGCTGTTTGCAGACTGA
GCCGAGAGGAGCTGACGGCTGTGATGCGCTTCTGACCCAGCGGCTGGGGCCAGGGCTGG
TGGATGCAGCCCAGGCCCGCCCTCGGACAACCTGTGTCTTCTCAGTGGAGTTGCAGCTGC
CTCCAAGGCTGCAGCCCTGGCTCACTTGGACAGGGGAGCCCCCACCTGCCGGGAGG
CACTGGCCATCGTCTTCTTGGCAGGCAACCCAGCCCAACGTGAGTGAGCTGGTGGTGG
GGCCACTGCCTCACCCCTCTACATGCGGGACGTGACTGTGGAGCGTCATGGAGGCCCC
TGCCCTATCACCGACGCCCGTGTCTTCCAAGAGTACCTGGACATAGACCAGATGATCT
TCAACAGAGAGCTGCCCCAGGCTTCTGGGCTTCTCCACCACTGTTGCTTACAAGCACC
GGGAGCGGAACCTGGTGACAATGACCACGGCTCCCCGTGGTCTGCAATCAGGGGACCGGG
CCACCTGGTTTGGCCTCTACTACAACATCTCGGGCGTGGGTTCTTCTGACCACGCTGG
GCTTGGAGCTGCTAGTGAACCACAAGGCCCTTGACCCTGCCCGCTGGACTATCCAGAAGG
TGTTCTATCAAGGCCGCTACTACGACAGCCTGGCCAGCTGGAGGCCAGTTTGAAGCCG
GCCTGGTGAATGTGGTGTGATCCCAGACAATGGCACAGTGGTCCCTGGTCCCTGAAGT
CCCCGTGCCCCGGGTCCAGCTCCCCCTACAGTTCTATCCCCAAGGCCCCCGCTTCA
GTGTCCAGGGAAGTCGAGTGGCCTCCTCACTGTGGACTTCTCCTTGGCCTCGGAGCAT
TCAGTGGCCCAAGGATCTTGGACGTTCCGTTCCAAGGAGAAAGACTAGTTTATGAGATAA
GCCTCCAAGAGGCCCTTGGCCATCTATGGTGGAAATTTCCCAGCAGCAATGACGACCCGCT
ATGTGGATGGAGGCTTGGCATGGGCAAGTACACCACGCCCTGACCCGTGGGGTGGACT
GCCCTACTTGGCCACCTACGTGGACTGGCACTTCTTTTGGAGTCCCAGGCCCAAGA
CAATACGTGATGCCTTTGTGTGTTTGAACAGAACCAGGGCTCCCCCTGCGGCGACACC
ACTCAGATCTCTACTCGCACTACTTTGGGGTCTTGGGAAACGGTGTGGTGTGTCAGAT
CTATGTCCACCTTGTCAACTATGACTATGTGTGGGATACGGTCTCCACCCAGTGGG



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CCATAGAAATACGATTCTATGCCACGGGCTACATCAGCTCGGCATTCTCTTTGGTGCTA
 CTGGGAAGTACGGGAACCAAGTGTGAGAGCACACCCTGGGCACGGTCCACACCCACAGCG
 CCCACTTCAAGGTGGATCTGGATGTAGCAGGACTGGAGAACTGGGTCTGGGCCGAGGATA
 TGGTCTTTGTCCCATGGCTGTGCCCTGGAGCCCTGAGCACCAGCTGCAGAGGCTGCAGG
 TGACCCGGAAGCTGCTGGAGATGGAGGAGCAGGCCGCCTTCCTCGTGGGAAGCGCCACCC
 CTCGCTACCTGTACCTGGCCAGCAACCACAGCAACAAGTGGGGTACCCCCGGGGCTACC
 GCATCCAGATGCTCAGCTTTGCTGGAGAGCCGCTGCCCCAAAACAGCTCCATGGCGAGAG
 GCTTCAGCTGGGAGAGGTACCAGCTGGCTGTGACCCAGCGGAAGGAGGAGGCCAGTA
 GCAGCAGCGTTTTCAATCAGAATGACCCTTGGGCCCCACTGTGGATTTCAAGTACTTCA
 TCAACAATGAGACCATTGCTGGAAGGATTTGGTGGCCTGGGTGACAGCTGGTTTTCTGC
 ATATCCCACATGCAGAGGACATTCCTAACACAGTACTGTGGGAAACGGCGTGGGCTTCT
 TCCTCCGACCCTATAACTTCTTTGACGAAGACCCTCCTTCTACTCTGCCGACTCCATCT
 ACTTCCGAGGGGACCAGGATGCTGGGGCCTGCGAGGTCAACCCCTAGCTTGCTGCCCC
 AGGCTGCTGCCTGTGCCCCGACCTCCCTGCCTTCTCCACGGGGGCTTCTCTCACAAC
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 CTTCACCTACCCTCCCTCGCATCCGCCTCTGAGCCAGGAGCCTCCTGACCCTGTGATGCC
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 CCAGGCATGGCCAGCCTGGAGCCGTGGCCGAGGGCTTCCCTAGATGGTTCCTTTGTTG
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 CCTGGAGACCCAGAGTAGGGTTGCCAGTCTGCAAGTCCATAGCTGAGCTGGAAAGGAT
 GCTTCTGCTCACATTCCTCTCATCCAGTCTTCTTCTCTATCCTGCAATTTCTCCGAATC
 TACTTCTCTCTCTCTCTCTGCTTCTTCTATCCTGCAATTTCTCCGAATC
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 AGTTCCTGCTCTCTCCAGCCCTATGGAAGTCTCAAGGTACGGGACCCCTAATCAGAGT
 GGCCAATCCCTGTGTGCTGTTCCCTTGTGTCTGTTGCTTATTGGGAGTAGGAGTTGCTCC
 TACCCCTGCTCTGGGGCTGGGTGTGTTTCCAGGACAGCTGCTTCTGTGCATTTGTGTCTGC
 CTGCCTCATGCTCTATAGAGGAGGATGGTCATCGTGACAGCAGCAGCTCAAGTTAGCA
 TTTCAAGTGATTTGGGGTGCAATGATAATGAAGAATGGCCATTTTGTACCAGGGCTCTG
 TATTCTGCAACAGCCTGTTTGGGAGGCTGGAGTGGAAACAAGGGTGGGCATCAAAGATG
 AGAAGCCAAAGCCCTACAACCTCCAGCCACCCAGCCAGGAGGGGCTGTCCAATCACATTC
 AGGCATGCGAATGAGCTGGGCCCTGGGTGAGGTGGGGTCTGGCCTAGTGGGGAGGGGCC
 TGGCCTGGGTGGGGCAGGGCCTGGCCTGGTCCAGGCTTGGGCTCCATTCCCATCACTGCT
 GTCCCTCTGAGGTCTGGATTGGGGATGGGGACAAGAAATAGCAAGAGATGAGAAACAA
 CAGAACTTTTTTCTCTAAAGGACTGGTTAAATCAATTCTGATACAGCCTTACAATACAA
 TAGTATGCAGCTAAAAATAATTGTATGCTTTATATACTAATATGTAATAATCTTCAGG
 TGAAAAAGGCAAGCCACAGAAATGTGTATAGCGCACTTCCCATTTGTGTTTCAGAAAGGA
 GTAGAATATAAACACATAATTGCTTATGTATGCCTATTCAGAATAAATGGGTAACACTGA
 TTACTTTTGGGAGGGGAACCAAGTGGTTGAGGACAGGAGAGGGAAGGGTCTTAACACTTA
 CACCCTTTTGTACATTTTGAATTTTGAACCATGTACTGTATTACCTATTCAAAATAAAC
 AATAAATGGGCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_003734 unedited GATTGGGATTTGTAATACGACTTACTATAGGCGGCCGCGACTTCANATCTGGTACCGGT CCGGAATCCCGGGATATCGTCGACCCACGCGTCCGGAGTCCGGGAGCCCCACCCCGT CCAGGAGCCAACAGAGCCCCGCTTGTGCTGGCGTGAGAATACATTGCTCTCCTTTGGTTG AATCAGCTGTCCCTCTTCGTGGGAAAATGAACCAGAAGACAATCCTCGTGCTCCTCATT TGGCCGTATCACCATCTTTGCCCTTGGTTTGTGTCCTGCTGGTGGCAGGGGTGGAGATG GGGGTGAACCCAGCCAGCTTCCCCATTGCCCTCTGTATCTCCAGTGCCAGCCTTGGGA CACACCCTGGCCAGACCAGCTGTTTGCAGACCTGAGCCGAGAGGAGCTGACGGCTGTGA TGCCTTTCTGACCCAGCGGCTGGGGCCAGGGCTGGTGGATGCAGCCAGGCCCGGCCCT CGGACAACTGTGTCTTCTCAGTGGAGTTGCAGCTGCCTCCAGGCTGCAGCCCTGGCTCA CTTGGACAGGGGGAGCCCCACCTGCCCGGGAGGCACTGGCCATCGTCTTCTTTGGCAG GCAACCCAGCCCAACGTGAGTGAGCTGGTGGTGGGGCCACTGCCTCACCCCTCTACAT GCGGGACGTGACTGTGGAGCGTCATGGAGGCCCTGCCCTATCACCGACGCCCGTGTCT GTTCCAAGAGTACCTGGACATAGACCAGATGATCTTCCACGAGAGCTGCCCCAGCTCTG GGCTTTTCCACCCTGTTGCTTCTCCAAGCCCCGGGGACCGAACCTGG
Restriction Sites:	Please inquire
ACCN:	NM_003734
Insert Size:	4000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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:	<u>NM_003734.2</u> , <u>NP_003725.1</u>
RefSeq Size:	4040 bp
RefSeq ORF:	2292 bp
Locus ID:	8639
UniProt ID:	<u>Q16853</u>
Cytogenetics:	17q21.31
Protein Families:	Transmembrane

Protein Pathways:	beta-Alanine metabolism, Glycine, serine and threonine metabolism, Metabolic pathways, Phenylalanine metabolism, Tyrosine metabolism
Gene Summary:	<p>This gene encodes a member of the semicarbazide-sensitive amine oxidase family. Copper amine oxidases catalyze the oxidative conversion of amines to aldehydes in the presence of copper and quinone cofactor. The encoded protein is localized to the cell surface, has adhesive properties as well as monoamine oxidase activity, and may be involved in leukocyte trafficking. Alterations in levels of the encoded protein may be associated with many diseases, including diabetes mellitus. A pseudogene of this gene has been described and is located approximately 9-kb downstream on the same chromosome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2013]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1, also known as VAP-1).</p>