

Product datasheet for **RG208516**

VAP1 (AOC3) (NM_003734) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VAP1 (AOC3) (NM_003734) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	VAP1
Synonyms:	HPAO; SSAO; VAP-1; VAP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208516 representing NM_003734
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAACCAGAAGACAATCCTCGTCTCCTATTCTGGCCGTCATCACCATCTTTGCCTTGGTTTGTGTCC
 TGCTGGTGGGCAGGGGTGGAGATGGGGGTGAACCCAGCCAGCTTCCCCATTGCCCTCTGTATCTCCAG
 TGCCAGCCTTGACACACCCTGGCCAGAGCCAGCTGTTTGCAGACCTGAGCCGAGAGGAGCTGACGGCT
 GTGATGCGCTTTCTGACCAGCGGCTGGGGCCAGGGCTGGTGGATGCAGCCAGGCCCGGCCCTCGGACA
 ACTGTGTCTTCTCAGTGGAGTTGCAGCTGCCTCCCAAGGCTGCAGCCCTGGCTCACTTGGACAGGGGGAG
 CCCCCACCTGCCGGGAGGCACTGGCCATCGTCTTCTTGGCAGGCAACCCAGCCCACTGAGTGAG
 CTGGTGGTGGGGCCACTGCCTACCCCTCTACATGCGGGACGTGACTGTGGAGCGTCATGGAGGCCCC
 TGCCCTATCACCGACGCCCGTGTCTTCCAAGAGTACCTGGACATAGACCAGATGATCTTCAACAGAGA
 GCTGCCCCAGGCTTCTGGGCTTCTCCACCCTGTTGCTTCTACAAGCACCGGGGACGGAACCTGGTGACA
 ATGACCACGGCTCCCCGTGGTCTGCAATCAGGGGACCGGGCCACCTGGTTTGGCCTCTACTACAACATCT
 CGGGCGCTGGGTTCTTCTGCACCACGTGGGCTTGGAGCTGCTAGTGAACCACAAGGCCCTTGACCTGC
 CCGCTGGACTATCCAGAAGGTGTTCTATCAAGGCCGCTACTACGACAGCCTGGCCAGCTGGAGGCCAG
 TTTGAGGCCGGCTGGTGAATGTGGTGTGATCCAGACAATGGCACAGGTGGGTCTGGTCCCTGAAGT
 CCCCTGTGCCCGGGTCCAGCTCCCCCTCTACAGTCTATCCCCAAGGCCCGGCTTCAGTGTCCAGGG
 AAGTCGAGTGGCTCCTCACTGTGGACTTCTCCTTTGGCCTCGGAGCATTCAAGTGGCCCAAGGATCTTT
 GACGTTTCGCTTCCAAGGAGAAAGACTAGTTTATGAGATAAGCCTCCAAGAGGCCCTGGCCATCTATGGTG
 GAAATCCCCAGCAGCAATGACGACCCGCTATGTGGATGGAGGCTTTGGCATGGGCAAGTACACCACGCC
 CCTGACCCGTGGGGTGGACTGCCCTACTTGGCCACCTACGTGGACTGGCACTTCTTTTGGAGTCCCAG
 GCCCCCAAGACAATACGTGATGCCTTTGTGTGTTTGAACAGAACCAGGGCCTCCCCCTGCGGCGACACC
 ACTCAGATCTCTACTCGCACTACTTTGGGGTCTTGCAGAAACGGTGTGGTCTGCAGATCTATGTCCAC
 CTTGCTCAACTATGACTATGTGTGGGATACGGTCTTCCACCCAGTGGGGCCATAGAAAACGATTCTAT
 GCCACGGGCTACATCAGCTCGGCATTCTCTTTGGTGTACTGGGAAGTACGGGAACCAAGTGTGAGAGC
 ACACCCTGGGCACGGTCCACACCACAGCGCCACTTCAAGGTGGATCTGGATGTAGCAGGACTGGAGAA
 CTGGGTCTGGGCCGAGGATATGGTCTTTGTCCCCATGGCTGTGCCCTGGAGCCCTGAGCACCAGCTGCAG
 AGGCTGCAGGTGACCCGGAAGCTGCTGGAGATGGAGGAGCAGGCCCTTCTCTGTGGAAAGCGCCACCC
 CTCGCTACCTGTACCTGGCCAGCAACCACAGCAACAAGTGGGGTACCCCGGGGCTACCGCATCCAGAT
 GCTCAGCTTTGCTGGAGAGCCGCTGCCCAAAACAGCTCCATGGCGAGAGGCTTCACTGGGAGAGGTAC
 CAGCTGGCTGTGACCCAGCGGAAGGAGGAGGCCAGTAGCAGCAGCGTTTTTAATCAGAATGACCCTT
 GGGCCCCACTGTGGATTTCACTGACTTTCATCAACAATGAGACATTGCTGGAAAGGATTTGGTGGCCTG
 GGTGACAGCTGGTTTTCTGCATATCCCACATGCAGAGGACATTCTAACACAGTACTGTGGGAAACGGC
 GTGGGCTTCTTCTCCGACCCTATAACTTCTTTGACGAAGACCCCTCTTCTACTCTGCCGACTCCATCT
 ACTTCCGAGGGGACCAGGATGCTGGGGCCTGCGAGGTCAACCCCTAGCTTGCCTGCCCCAGGCTGCTGC
 CTGTGCCCCGACCTCCCTGCCTTCTCCACGGGGCTTCTCTACAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG208516 representing NM_003734
 Red=Cloning site Green=Tags(s)

MNQKTI L V L L I L A V I T I F A L V C V L L V G R G G D G G E P S Q L P H C P S V S P S A Q P W T H P G S Q L F A D L S R E E L T A
 V M R F L T Q R L G P G L V D A A Q A R P S D N C V F S V E L Q L P P K A A A L A H L D R G S P P P A R E A L A I V F F G R Q P Q N V S E
 L V V G P L P H P S Y M R D V T V E R H G G P L P Y H R R P V L F Q E Y L D I D Q M I F N R E L P Q A S G L L H H C C F Y K H R G R N L V T
 M T T A P R G L Q S G D R A T W F G L Y Y N I S G A G F F L H H V G L E L L V N H K A L D P A R W T I Q K V F Y Q G R Y Y D S L A Q L E A Q
 F E A G L V N V V L I P D N G T G G S W S L K S P V P P G P A P P L Q F Y P Q G P R F S V Q G S R V A S S L W T F S F G L G A F S G P R I F
 D V R F Q G E R L V Y E I S L Q E A L A I Y G G N S P A A M T T R Y V D G G F G M G K Y T T P L T R G V D C P Y L A T Y V D W H F L L E S Q
 A P K T I R D A F C V F E Q N Q G L P L R R H H S D L Y S H Y F G G L A E T V L V V R S M S T L L N Y D V W D T V F H P S G A I E I R F Y
 A T G Y I S S A F L F G A T G K Y G N Q V S E H T L G T V H T S A H F K V D L D V A G L E N W W A E D M V F V P M A V P W S P E H Q L Q
 R L Q V T R K L L E M E E Q A A F L V G S A T P R Y L Y L A S N H S N K W G H P R G Y R I Q M L S F A G E P L P Q N S S M A R G F S W E R Y
 Q L A V T Q R K E E P S S S S V F N Q N D P W A P T V D F S D F I N N E T I A G K D L V A W V T A G F L H I P H A E D I P N T V T V G N G
 V G F F L R P Y N F D E D P S F Y S A D S I Y F R G D Q D A G A C E V N P L A C L P Q A A A C A P D L P A F S H G G F S H N

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003734

ORF Size: 2289 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_003734.4](#)

RefSeq Size: 4040 bp

RefSeq ORF: 2292 bp

Locus ID: 8639

UniProt ID: [Q16853](#)

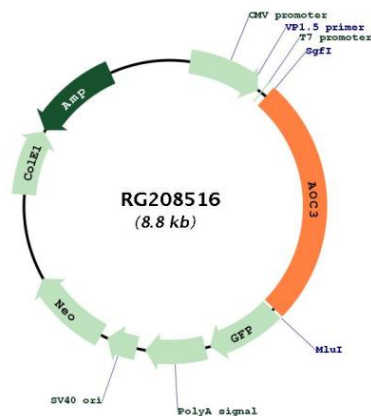
Cytogenetics: 17q21.31

Protein Families: Transmembrane

Protein Pathways: beta-Alanine metabolism, Glycine, serine and threonine metabolism, Metabolic pathways, Phenylalanine metabolism, Tyrosine metabolism

Gene Summary: 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]

Product images:



Circular map for RG208516